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 6, 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 16, 2008. For your reference, these analyses have been assigned our service request number P0801442.

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 1215 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: P0801442
Project: Soil Gas Sampling / 04020-023-4311

CASE NARRATIVE

The samples were received intact under chain of custody on May 16, 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 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 lower control criterion was exceeded for vinyl acetate and allyl chloride in the Continuing Calibration Verification (CCV) analyzed on May 21, 2008 and May 22, 2008 respectively. However, the reported sample result(s) associated with the CCV in question were for dilutions of other compounds; therefore, the results were not affected. No corrective action was necessary.

The upper control criterion was exceeded for 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene and hexachlorobutadiene in the Continuing Calibration Verification (CCV) analyzed on May 21, 2008 and hexachlorobutadiene on May 22, 2008. However, the reported sample result(s) associated with the CCV in question were for dilutions of other compounds; therefore, the results were not affected. No corrective action was necessary.

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: P0801442

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 #
P0801442-001.01	SG73B-05	6.0 L-Summa Canister Source	-6.9	-3.4	3.6				SC00057	8616	OA00078	8616
P0801442-002.01	SG39B-05	6.0 L-Summa Canister Source	-7.2	-3.5	3.6				SC00223	8616	OA00034	8616
P0801442-003.01	SG37B-20	6.0 L-Summa Canister Source	-6.3	-3.1	3.6				SC00411	8616	OA00040	8616
P0801442-004.01	SG36B-20	6.0 L-Summa Canister Source	-6.1	-3.0	3.5				SC00910	8616	OA00077	8616
P0801442-005.01	SG44B-05	6.0 L-Summa Canister Source	-6.8	-3.3	3.8				SC00868	8616	OA00033	8616
P0801442-006.01	SG88B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.7				SC00796	8616	OA00021	8616
P0801442-007.01	SG72B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.5				SC00329	8616	OA00565	8616
P0801442-008.01	SG70B-05	6.0 L-Summa Canister Source	-6.7	-3.3	3.5				SC00072	8753	OA00566	8753
P0801442-009.01	SG71B-05	6.0 L-Summa Canister Source	-7.0	-3.4	3.5				SC00571	8753	OA00284	8616
P0801442-010.01	SG65B-05	6.0 L-Summa Canister Source	-4.7	-2.3	3.5				SC00201	8616	OA00090	8616
P0801442-011.01	SG65B-05D	6.0 L-Summa Canister Source	-4.4	-2.2	3.5				SC00420	8616		
P0801442-012.01	SG84B-05	6.0 L-Summa Canister Source	-5.6	-2.8	3.5				SC00886	8753	OA00663	8616
P0801442-013.01	SG85B-05	6.0 L-Summa Canister Source	-6.2	-3.0	3.5				SC00280	8753	OA00089	8753
P0801442-014.01	SG35B-05	6.0 L-Summa Canister Source	-6.8	-3.3	3.5				SC00693	8753	OA00569	8753
P0801442-015.01	SG94B-05	6.0 L-Summa Canister Source	-10.0	-4.9	3.5				SC00640	8753	OA00761	8753
P0801442-016.01	SG95B-05	6.0 L-Summa Canister Source	-6.2	-3.0	3.5				SC00671	8753	OA00561	8753
P0801442-017.01	SG89B-05	6.0 L-Summa Canister Source	-6.6	-3.2	3.5				SC00634	8753	OA00762	8753
P0801442-018.01	SG75B-05	6.0 L-Summa Canister Source	-7.4	-3.6	3.5				SC00575	8753	OA00560	8753

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
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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. P0801442

CAS Contact: Kelly Horiuchi

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

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
SG73B-05	①-6.9	5/14/08	1457	Air	SC00057	OA00078	6L	X	X			
SG39B-05	②-7.2	5/14/08	1520	Air	SC00223	OA00034	6L	X	X			
SG37B-20	③-6.3	5/14/08	1700	Air	SC00411	OA00040	6L	X	X			
SG36B-20	④-6.1	5/14/08	1625	Air	SC00910	OA00077	6L	X	X			
SG44B-05	⑤-6.5	5/14/08	1230	Air	SC00868	OA00033	6L	X	X			
~~SG BBB-05~~		~~5/14/08~~	~~1343~~	~~Air~~	~~SC00996~~		CW					CW
SG88B-05	⑥-7.6	5/14/08	1343	Air	SC00996	OA00021	6L	X	X			
SG72B-05	⑦-6.5	5/14/08	1402	Air	SC00329	OA00565	6L	X	X			
SG70B-05	⑧-6.7	5/15/08	0922	Air	SC00072	OA00566	6L	X	X			
SG71B-05	⑨-7.0	5/15/08	1030	Air	SC00571	OA00284	6L	X	X			
SG65B-05	⑩-4.7	5/15/08	0844	Air	SC00201	OA00090	6L	X	X			
SG65B-05D	⑪-4.4	5/15/08	0910	Air	SC00420	OA00090	6L	X	X			
SG84B-05	⑫-5.6	5/15/08	1047	Air	SC00886	OA00663	6L	X	X			
SG85B-05	⑬-6.2	5/15/08	1330	Air	SC00280	OA00089	6L	X	X			

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)	Date:	Time:	Received by: (Signature)	Date:	Time:
Cassandra Weir	5/15/08	1700			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
				5/16/08	0805
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank
Temperature ____ °C

Air - Chain of Custody Record & Analytical Service Request

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1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. P0801442

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 Mack
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
SG35B-05	(4)-6.8	5/15/08	1332	Air	SC00693	OA00569	6L	X	X			
SG94B-05	(5)-10.0	5/15/08	1434	Air	SC00640	OA00761	6L	X	X			
SG95B-05	(6)-6.2	5/15/08	1509	Air	SC00611	OA00561	6L	X	X			
SG89B-05	(7)-6.6	5/15/08	1552	Air	SC00634	OA00762	6L	X	X			
SG75B-05	(8)-7.9	5/15/08	1629	Air	SC00575	OA00560	6L	X	X			
					SC00211							clean only
					SC00502							clean only

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ____
Tier III - (Data Validation Package) 10% Surcharge ____
Tier V - (client specified) ____
EDD required Yes / No
Type: _____ EDD Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date: 5/15/08	Time: 1700	Received by: (Signature)	Date: 5/16/08	Time: 0905	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Cooler / Blank
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Temperature °C

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: ENSR Work order: P0801442

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 05/16/08 Date opened: 05/16/08 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
P0801442-001.01	6.0 L Source Can					
P0801442-002.01	6.0 L Source Can					
P0801442-003.01	6.0 L Source Can					
P0801442-004.01	6.0 L Source Can					
P0801442-005.01	6.0 L Source Can					
P0801442-006.01	6.0 L Source Can					
P0801442-007.01	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: P0801442

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 05/16/08 Date opened: 05/16/08 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0801442-008.01	6.0 L Source Can					
P0801442-009.01	6.0 L Source Can					
P0801442-010.01	6.0 L Source Can					
P0801442-011.01	6.0 L Source Can					
P0801442-012.01	6.0 L Source Can					
P0801442-013.01	6.0 L Source Can					
P0801442-014.01	6.0 L Source Can					
P0801442-015.01	6.0 L Source Can					
P0801442-016.01	6.0 L Source Can					
P0801442-017.01	6.0 L Source Can					
P0801442-018.01	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 International**
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Project ID: P0801442

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: 5/14 - 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG73B-05	P0801442-001	1.00	1.62	**160**	41	
SG39B-05	P0801442-002	1.00	1.63	ND	41	
SG37B-20	P0801442-003	1.00	1.58	ND	40	
SG36B-20	P0801442-004	1.00	1.56	**110**	39	
SG44B-05	P0801442-005	1.00	1.62	ND	41	
SG88B-05	P0801442-006	1.00	1.67	ND	42	
SG72B-05	P0801442-007	1.00	1.58	ND	40	
SG70B-05	P0801442-008	1.00	1.60	ND	40	
SG71B-05	P0801442-009	1.00	1.61	ND	40	
SG65B-05	P0801442-010	1.00	1.47	ND	37	
SG65B-05D	P0801442-011	1.00	1.46	ND	37	
SG84B-05	P0801442-012	1.00	1.53	ND	38	
SG85B-05	P0801442-013	1.00	1.56	ND	39	
SG35B-05	P0801442-014	1.00	1.60	ND	40	
SG94B-05	P0801442-015	1.00	1.86	**1,700**	47	
SG95B-05	P0801442-016	1.00	1.56	ND	39	
SG89B-05	P0801442-017	1.00	1.58	ND	40	
SG75B-05	P0801442-018	1.00	1.64	ND	41	
Method Blank	P080521-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: _____ Date: 5/23/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG73B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00057

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

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**	1.6	0.16	**0.41**	0.33	0.033	
74-87-3	**Chloromethane**	**0.29**	0.32	0.16	**0.14**	0.16	0.078	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.13	0.063	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.083	0.042	
75-00-3	**Chloroethane**	**0.62**	0.32	0.16	**0.23**	0.12	0.061	
64-17-5	**Ethanol**	**4.0**	16	0.16	**2.1**	8.6	0.086	**J**
67-64-1	**Acetone**	**23**	16	0.24	**9.7**	6.8	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**1.6**	0.32	0.16	**0.28**	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.75	0.10	
75-35-4	**1,1-Dichloroethene**	**55**	0.32	0.16	**14**	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.90**	1.6	0.24	**0.30**	0.53	0.079	**J**
75-09-2	**Methylene Chloride**	**0.48**	1.6	0.16	**0.14**	0.47	0.047	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.43**	0.32	0.18	**0.057**	0.042	0.024	
75-15-0	**Carbon Disulfide**	**1.1**	1.6	0.39	**0.35**	0.52	0.12	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.082	0.041	
75-34-3	**1,1-Dichloroethane**	**0.28**	0.32	0.16	**0.068**	0.080	0.040	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.090	0.045	
108-05-4	**Vinyl Acetate**	**20**	16	0.52	**5.8**	4.6	0.15	
78-93-3	**2-Butanone (MEK)**	**11**	1.6	0.16	**3.8**	0.55	0.055	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	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**	**270**	0.32	0.19	**55**	0.066	0.039	

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

Verified By: RC Date: 6/2/08

Client: **ENSR**
Client Sample ID: **SG73B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00057

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

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	0.32	0.16	ND	0.080	0.040	
71-55-6	**1,1,1-Trichloroethane**	**0.24**	0.32	0.16	**0.044**	0.059	0.030	**J**
71-43-2	**Benzene**	**3.8**	0.32	0.16	**1.2**	0.10	0.051	
56-23-5	**Carbon Tetrachloride**	**3.7**	0.32	0.16	**0.59**	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**	**0.45**	0.32	0.16	**0.097**	0.070	0.035	
75-27-4	**Bromodichloromethane**	**3.6**	0.32	0.16	**0.53**	0.048	0.024	
79-01-6	**Trichloroethene**	**2.7**	0.32	0.16	**0.51**	0.060	0.030	
123-91-1	**1,4-Dioxane**	**0.31**	1.6	0.20	**0.086**	0.45	0.055	**J**
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.059	
142-82-5	n-Heptane	ND	1.6	0.21	ND	0.40	0.051	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**0.56**	1.6	0.18	**0.14**	0.40	0.044	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.36	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.059	0.030	
108-88-3	**Toluene**	**1.6**	1.6	0.16	**0.43**	0.43	0.043	**J**
591-78-6	**2-Hexanone**	**2.1**	1.6	0.25	**0.50**	0.40	0.060	
124-48-1	**Dibromochloromethane**	**0.44**	0.32	0.22	**0.051**	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.042	0.023	
111-65-9	**n-Octane**	**0.35**	1.6	0.16	**0.076**	0.35	0.035	**J**
127-18-4	**Tetrachloroethene**	**73**	0.32	0.16	**11**	0.048	0.024	
108-90-7	**Chlorobenzene**	**11**	0.32	0.17	**2.4**	0.070	0.036	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG73B-05** CAS Sample ID: P0801442-001
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00057

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.34**	1.6	0.20	**0.079**	0.37	0.046	**J**
179601-23-1	**m,p-Xylenes**	**1.6**	1.6	0.42	**0.38**	0.37	0.097	
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.6	0.25	ND	0.38	0.058	
95-47-6	**o-Xylene**	**2.0**	1.6	0.20	**0.47**	0.37	0.047	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.21	ND	0.047	0.030	
98-82-8	**Cumene**	**0.29**	1.6	0.18	**0.058**	0.33	0.037	**J**
103-65-1	n-Propylbenzene	ND	1.6	0.17	ND	0.33	0.034	
622-96-8	**4-Ethyltoluene**	**0.23**	1.6	0.18	**0.046**	0.33	0.038	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.26**	1.6	0.19	**0.053**	0.33	0.040	**J**
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.049	
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	1.6	0.22	**0.22**	0.33	0.045	**J**
100-44-7	Benzyl Chloride	ND	0.32	0.28	ND	0.063	0.054	
541-73-1	**1,3-Dichlorobenzene**	**2.7**	0.32	0.20	**0.44**	0.054	0.033	
106-46-7	**1,4-Dichlorobenzene**	**94**	0.32	0.18	**16**	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)**	**0.29**	1.6	0.21	**0.053**	0.30	0.038	**J**
95-50-1	**1,2-Dichlorobenzene**	**4.5**	0.32	0.21	**0.75**	0.054	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.25	ND	0.17	0.025	
120-82-1	**1,2,4-Trichlorobenzene**	**0.94**	0.32	0.25	**0.13**	0.044	0.033	
91-20-3	**Naphthalene**	**3.3**	0.65	0.24	**0.64**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**19**	0.32	0.29	**1.8**	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**0.45**	0.65	0.16	**0.081**	0.12	0.030	**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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG39B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00223

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 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)**	**2.0**	1.6	0.16	**0.41**	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**	**0.26**	0.33	0.16	**0.10**	0.12	0.062	**J**
64-17-5	**Ethanol**	**4.4**	16	0.16	**2.3**	8.7	0.087	**J**
67-64-1	**Acetone**	**17**	16	0.24	**7.3**	6.9	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.33	0.16	**0.26**	0.058	0.029	
107-13-1	**Acrylonitrile**	**0.25**	1.6	0.23	**0.12**	0.75	0.11	**J**
75-35-4	**1,1-Dichloroethene**	**10**	0.33	0.16	**2.6**	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.93**	1.6	0.24	**0.31**	0.54	0.080	**J**
75-09-2	**Methylene Chloride**	**0.29**	1.6	0.16	**0.084**	0.47	0.047	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.48**	0.33	0.18	**0.063**	0.043	0.024	
75-15-0	**Carbon Disulfide**	**45**	1.6	0.39	**14**	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**	**4.4**	0.33	0.16	**1.1**	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**	**7.5**	16	0.52	**2.1**	4.6	0.15	**J**
78-93-3	**2-Butanone (MEK)**	**5.1**	1.6	0.16	**1.7**	0.55	0.055	
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**	**370**	0.33	0.19	**75**	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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG39B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-002

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00223

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	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**	**10**	0.33	0.16	**1.9**	0.060	0.030	
71-43-2	**Benzene**	**3.2**	0.33	0.16	**0.99**	0.10	0.051	
56-23-5	**Carbon Tetrachloride**	**1.3**	0.33	0.16	**0.21**	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**	**0.64**	0.33	0.16	**0.095**	0.049	0.024	
79-01-6	**Trichloroethene**	**240**	0.33	0.16	**44**	0.061	0.030	
123-91-1	**1,4-Dioxane**	**0.90**	1.6	0.20	**0.25**	0.45	0.055	**J**
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.060	
142-82-5	n-Heptane	ND	1.6	0.21	ND	0.40	0.051	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	1.6	0.18	**0.067**	0.40	0.045	**J**
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**	**1.0**	1.6	0.16	**0.28**	0.43	0.043	**J**
591-78-6	**2-Hexanone**	**0.54**	1.6	0.25	**0.13**	0.40	0.061	**J**
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	ND	1.6	0.16	ND	0.35	0.035	
127-18-4	**Tetrachloroethene**	**25**	0.33	0.16	**3.6**	0.048	0.024	
108-90-7	**Chlorobenzene**	**0.18**	0.33	0.17	**0.039**	0.071	0.036	**J**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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Verified By: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG39B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00223

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 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**	**0.38**	1.6	0.20	**0.087**	0.38	0.047	**J**
179601-23-1	**m,p-Xylenes**	**1.5**	1.6	0.42	**0.35**	0.38	0.098	**J**
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.6	0.25	ND	0.38	0.058	
95-47-6	**o-Xylene**	**2.4**	1.6	0.21	**0.54**	0.38	0.047	
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	ND	1.6	0.17	ND	0.33	0.034	
622-96-8	4-Ethyltoluene	ND	1.6	0.19	ND	0.33	0.038	
108-67-8	1,3,5-Trimethylbenzene	ND	1.6	0.20	ND	0.33	0.040	
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.049	
95-63-6	**1,2,4-Trimethylbenzene**	**0.34**	1.6	0.22	**0.069**	0.33	0.046	**J**
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.054	
541-73-1	1,3-Dichlorobenzene	ND	0.33	0.20	ND	0.054	0.034	
106-46-7	**1,4-Dichlorobenzene**	**43**	0.33	0.18	**7.2**	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)	ND	1.6	0.21	ND	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**	**1.1**	0.65	0.24	**0.20**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**2.9**	0.33	0.29	**0.27**	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**0.22**	0.65	0.16	**0.039**	0.12	0.030	**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: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG37B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

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**	1.6	0.16	**0.42**	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.15	0.077	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.12	0.062	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.081	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.060	
64-17-5	**Ethanol**	**4.1**	16	0.16	**2.2**	8.4	0.084	**J**
67-64-1	**Acetone**	**18**	16	0.23	**7.7**	6.7	0.097	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.32	0.16	**0.22**	0.056	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.73	0.10	
75-35-4	**1,1-Dichloroethene**	**1.9**	0.32	0.16	**0.48**	0.080	0.040	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.6**	1.6	0.23	**0.52**	0.52	0.077	**J**
75-09-2	**Methylene Chloride**	**0.29**	1.6	0.16	**0.085**	0.45	0.045	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.050	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.32	0.18	**0.067**	0.041	0.023	
75-15-0	**Carbon Disulfide**	**1.4**	1.6	0.38	**0.45**	0.51	0.12	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
75-34-3	**1,1-Dichloroethane**	**0.56**	0.32	0.16	**0.14**	0.078	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.088	0.044	
108-05-4	**Vinyl Acetate**	**14**	16	0.51	**3.9**	4.5	0.14	**J, M**
78-93-3	**2-Butanone (MEK)**	**12**	1.6	0.16	**4.2**	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	**Chloroform**	**210**	0.32	0.19	**42**	0.065	0.038	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
B = Analyte was found in the method blank.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG37B-20
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

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	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
71-55-6	**1,1,1-Trichloroethane**	**0.23**	0.32	0.16	**0.042**	0.058	0.029	**J**
71-43-2	**Benzene**	**3.2**	0.32	0.16	**1.0**	0.099	0.049	
56-23-5	**Carbon Tetrachloride**	**1.9**	0.32	0.16	**0.30**	0.050	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.068	0.034	
75-27-4	**Bromodichloromethane**	**5.7**	0.32	0.16	**0.84**	0.047	0.024	
79-01-6	**Trichloroethene**	**2.2**	0.32	0.16	**0.41**	0.059	0.029	
123-91-1	1,4-Dioxane	ND	1.6	0.19	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.058	
142-82-5	n-Heptane	ND	1.6	0.20	ND	0.39	0.049	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.16	ND	0.35	0.036	
108-10-1	**4-Methyl-2-pentanone**	**0.68**	1.6	0.18	**0.17**	0.39	0.043	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
108-88-3	**Toluene**	**1.1**	1.6	0.16	**0.30**	0.42	0.042	**J**
591-78-6	**2-Hexanone**	**0.61**	1.6	0.24	**0.15**	0.39	0.059	**J**
124-48-1	Dibromochloromethane	ND	0.32	0.21	ND	0.037	0.025	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.041	0.022	
111-65-9	n-Octane	ND	1.6	0.16	ND	0.34	0.034	
127-18-4	**Tetrachloroethene**	**92**	0.32	0.16	**14**	0.047	0.023	
108-90-7	Chlorobenzene	ND	0.32	0.16	ND	0.069	0.035	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG37B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.50**	1.6	0.20	**0.11**	0.36	0.045	**J**
179601-23-1	**m,p-Xylenes**	**2.3**	1.6	0.41	**0.54**	0.36	0.095	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.023	
100-42-5	Styrene	ND	1.6	0.24	ND	0.37	0.056	
95-47-6	**o-Xylene**	**0.87**	1.6	0.20	**0.20**	0.36	0.046	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.046	0.029	
98-82-8	Cumene	ND	1.6	0.18	ND	0.32	0.036	
103-65-1	n-Propylbenzene	ND	1.6	0.16	ND	0.32	0.033	
622-96-8	**4-Ethyltoluene**	**0.24**	1.6	0.18	**0.049**	0.32	0.037	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.33**	1.6	0.19	**0.067**	0.32	0.039	**J**
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	**1,2,4-Trimethylbenzene**	**0.90**	1.6	0.22	**0.18**	0.32	0.044	**J**
100-44-7	Benzyl Chloride	ND	0.32	0.27	ND	0.061	0.053	
541-73-1	1,3-Dichlorobenzene	ND	0.32	0.20	ND	0.053	0.033	
106-46-7	**1,4-Dichlorobenzene**	**58**	0.32	0.18	**9.7**	0.053	0.029	
135-98-8	sec-Butylbenzene	ND	1.6	0.18	ND	0.29	0.033	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.21**	1.6	0.21	**0.039**	0.29	0.037	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.32	0.21	ND	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.16	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.032	
91-20-3	**Naphthalene**	**1.6**	0.63	0.23	**0.30**	0.12	0.045	
87-68-3	Hexachlorobutadiene	ND	0.32	0.28	ND	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.63	0.16	ND	0.12	0.029	
104-51-8	**n-Butylbenzene**	**0.38**	0.63	0.16	**0.069**	0.12	0.029	**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: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG36B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00910

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.050 Liter(s)
0.0050 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)**	**3.5**	16	1.6	**0.70**	3.2	0.32	**J**
74-87-3	Chloromethane	ND	3.1	1.6	ND	1.5	0.76	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	16	1.6	ND	2.2	0.22	
75-01-4	Vinyl Chloride	ND	3.1	1.6	ND	1.2	0.61	
74-83-9	Bromomethane	ND	3.1	1.6	ND	0.80	0.40	
75-00-3	Chloroethane	ND	3.1	1.6	ND	1.2	0.59	
64-17-5	**Ethanol**	**35**	160	1.6	**19**	83	0.83	**J**
67-64-1	**Acetone**	**31**	160	2.3	**13**	66	0.96	**J, B**
75-69-4	**Trichlorofluoromethane**	**2.0**	3.1	1.6	**0.36**	0.56	0.28	**J**
107-13-1	Acrylonitrile	ND	16	2.2	ND	7.2	1.0	
75-35-4	**1,1-Dichloroethene**	**5.3**	3.1	1.6	**1.3**	0.79	0.39	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	16	2.3	ND	5.1	0.76	
75-09-2	**Methylene Chloride**	**8.0**	16	1.6	**2.3**	4.5	0.45	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.1	1.6	ND	1.0	0.50	
76-13-1	Trichlorotrifluoroethane	ND	3.1	1.7	ND	0.41	0.23	
75-15-0	**Carbon Disulfide**	**6.4**	16	3.7	**2.0**	5.0	1.2	**J**
156-60-5	trans-1,2-Dichloroethene	ND	3.1	1.6	ND	0.79	0.39	
75-34-3	**1,1-Dichloroethane**	**2.0**	3.1	1.6	**0.50**	0.77	0.39	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	3.1	1.6	ND	0.87	0.43	
108-05-4	Vinyl Acetate	ND	160	5.0	ND	44	1.4	
78-93-3	**2-Butanone (MEK)**	**10**	16	1.6	**3.5**	5.3	0.53	**J**
156-59-2	cis-1,2-Dichloroethene	ND	3.1	1.6	ND	0.79	0.39	
108-20-3	Diisopropyl Ether	ND	16	1.8	ND	3.7	0.44	
67-66-3	**Chloroform**	**14,000**	3.1	1.8	**2,900**	0.64	0.38	

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: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG36B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00910

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.050 Liter(s)
0.0050 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	16	1.6	ND	3.7	0.38	
107-06-2	1,2-Dichloroethane	ND	3.1	1.6	ND	0.77	0.39	
71-55-6	**1,1,1-Trichloroethane**	**2.5**	3.1	1.6	**0.46**	0.57	0.29	**J**
71-43-2	**Benzene**	**3.2**	3.1	1.6	**1.0**	0.98	0.49	
56-23-5	**Carbon Tetrachloride**	**10**	3.1	1.6	**1.6**	0.50	0.25	
994-05-8	tert-Amyl Methyl Ether	ND	16	1.6	ND	3.7	0.37	
78-87-5	**1,2-Dichloropropane**	**2.1**	3.1	1.6	**0.45**	0.68	0.34	**J**
75-27-4	**Bromodichloromethane**	**25**	3.1	1.6	**3.7**	0.47	0.23	
79-01-6	**Trichloroethene**	**71**	3.1	1.6	**13**	0.58	0.29	
123-91-1	1,4-Dioxane	ND	16	1.9	ND	4.3	0.53	
80-62-6	Methyl Methacrylate	ND	16	2.3	ND	3.8	0.57	
142-82-5	n-Heptane	ND	16	2.0	ND	3.8	0.49	
10061-01-5	cis-1,3-Dichloropropene	ND	16	1.6	ND	3.4	0.36	
108-10-1	4-Methyl-2-pentanone	ND	16	1.7	ND	3.8	0.43	
10061-02-6	trans-1,3-Dichloropropene	ND	16	2.0	ND	3.4	0.43	
79-00-5	1,1,2-Trichloroethane	ND	3.1	1.6	ND	0.57	0.29	
108-88-3	**Toluene**	**3.7**	16	1.6	**0.99**	4.1	0.41	**J**
591-78-6	2-Hexanone	ND	16	2.4	ND	3.8	0.58	
124-48-1	**Dibromochloromethane**	**3.1**	3.1	2.1	**0.36**	0.37	0.25	**J**
106-93-4	1,2-Dibromoethane	ND	3.1	1.7	ND	0.41	0.22	
111-65-9	n-Octane	ND	16	1.6	ND	3.3	0.33	
127-18-4	**Tetrachloroethene**	**630**	3.1	1.6	**93**	0.46	0.23	
108-90-7	Chlorobenzene	ND	3.1	1.6	ND	0.68	0.35	

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: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG36B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00910

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.050 Liter(s)
0.0050 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	ND	16	1.9	ND	3.6	0.45	
179601-23-1	m,p-Xylenes	ND	16	4.1	ND	3.6	0.93	
75-25-2	Bromoform	ND	16	2.4	ND	1.5	0.23	
100-42-5	Styrene	ND	16	2.4	ND	3.7	0.56	
95-47-6	o-Xylene	ND	16	2.0	ND	3.6	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	2.0	ND	0.45	0.29	
98-82-8	Cumene	ND	16	1.7	ND	3.2	0.36	
103-65-1	n-Propylbenzene	ND	16	1.6	ND	3.2	0.33	
622-96-8	4-Ethyltoluene	ND	16	1.8	ND	3.2	0.36	
108-67-8	1,3,5-Trimethylbenzene	ND	16	1.9	ND	3.2	0.38	
98-83-9	alpha-Methylstyrene	ND	16	2.3	ND	3.2	0.47	
95-63-6	1,2,4-Trimethylbenzene	ND	16	2.2	ND	3.2	0.44	
100-44-7	Benzyl Chloride	ND	3.1	2.7	ND	0.60	0.52	
541-73-1	1,3-Dichlorobenzene	ND	3.1	1.9	ND	0.52	0.32	
106-46-7	**1,4-Dichlorobenzene**	**65**	3.1	1.7	**11**	0.52	0.29	
135-98-8	sec-Butylbenzene	ND	16	1.8	ND	2.8	0.33	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	16	2.0	ND	2.8	0.37	
95-50-1	1,2-Dichlorobenzene	ND	3.1	2.1	ND	0.52	0.34	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	2.4	ND	1.6	0.25	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	2.4	ND	0.42	0.32	
91-20-3	**Naphthalene**	**3.8**	6.2	2.3	**0.72**	1.2	0.44	**J**
87-68-3	**Hexachlorobutadiene**	**56**	3.1	2.8	**5.3**	0.29	0.26	
98-06-6	tert-Butylbenzene	ND	6.2	1.6	ND	1.1	0.28	
104-51-8	n-Butylbenzene	ND	6.2	1.6	ND	1.1	0.28	

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: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG44B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

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**	0.81	0.081	**0.41**	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.081	ND	0.078	0.039	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.089**	0.81	0.081	**0.013**	0.12	0.012	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.081	ND	0.063	0.032	
74-83-9	Bromomethane	ND	0.16	0.081	ND	0.042	0.021	
75-00-3	Chloroethane	ND	0.16	0.081	ND	0.061	0.031	
64-17-5	**Ethanol**	**3.0**	8.1	0.081	**1.6**	4.3	0.043	**J**
67-64-1	**Acetone**	**13**	8.1	0.12	**5.5**	3.4	0.050	**B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.16	0.081	**0.19**	0.029	0.014	
107-13-1	**Acrylonitrile**	**0.17**	0.81	0.11	**0.078**	0.37	0.052	**J**
75-35-4	1,1-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.52**	0.81	0.12	**0.17**	0.27	0.040	**J**
75-09-2	**Methylene Chloride**	**0.089**	0.81	0.081	**0.026**	0.23	0.023	**J**
107-05-1	**3-Chloro-1-propene (Allyl Chloride)**	**1.0**	0.16	0.081	**0.33**	0.052	0.026	
76-13-1	**Trichlorotrifluoroethane**	**0.46**	0.16	0.091	**0.060**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**1.9**	0.81	0.19	**0.60**	0.26	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.081	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.081	ND	0.045	0.022	
108-05-4	**Vinyl Acetate**	**2.1**	8.1	0.26	**0.59**	2.3	0.074	**J, M**
78-93-3	**2-Butanone (MEK)**	**6.8**	0.81	0.081	**2.3**	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
108-20-3	Diisopropyl Ether	ND	0.81	0.096	ND	0.19	0.023	
67-66-3	**Chloroform**	**4.1**	0.16	0.096	**0.84**	0.033	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
B = Analyte was found in the method blank.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG44B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

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	0.81	0.083	ND	0.19	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.081	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.081	ND	0.030	0.015	
71-43-2	**Benzene**	**3.1**	0.16	0.081	**0.97**	0.051	0.025	
56-23-5	**Carbon Tetrachloride**	**0.92**	0.16	0.081	**0.15**	0.026	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.81	0.081	ND	0.19	0.019	
78-87-5	**1,2-Dichloropropane**	**0.20**	0.16	0.081	**0.043**	0.035	0.018	
75-27-4	Bromodichloromethane	ND	0.16	0.081	ND	0.024	0.012	
79-01-6	Trichloroethene	ND	0.16	0.081	ND	0.030	0.015	
123-91-1	**1,4-Dioxane**	**0.20**	0.81	0.099	**0.057**	0.22	0.027	**J**
80-62-6	Methyl Methacrylate	ND	0.81	0.12	ND	0.20	0.030	
142-82-5	n-Heptane	ND	0.81	0.10	ND	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.084	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	0.81	0.091	**0.066**	0.20	0.022	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	0.10	ND	0.18	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.081	ND	0.030	0.015	
108-88-3	**Toluene**	**1.0**	0.81	0.081	**0.28**	0.22	0.022	
591-78-6	**2-Hexanone**	**0.30**	0.81	0.12	**0.073**	0.20	0.030	**J**
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.087	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.81	0.081	ND	0.17	0.017	
127-18-4	**Tetrachloroethene**	**0.50**	0.16	0.081	**0.074**	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.083	ND	0.035	0.018	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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Verified By: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG44B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.16**	0.81	0.10	**0.037**	0.19	0.023	**J**
179601-23-1	**m,p-Xylenes**	**0.74**	0.81	0.21	**0.17**	0.19	0.049	**J**
75-25-2	Bromoform	ND	0.81	0.12	ND	0.078	0.012	
100-42-5	Styrene	ND	0.81	0.12	ND	0.19	0.029	
95-47-6	**o-Xylene**	**0.58**	0.81	0.10	**0.13**	0.19	0.024	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.024	0.015	
98-82-8	Cumene	ND	0.81	0.091	ND	0.16	0.018	
103-65-1	**n-Propylbenzene**	**0.11**	0.81	0.084	**0.022**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.30**	0.81	0.092	**0.062**	0.16	0.019	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.31**	0.81	0.097	**0.062**	0.16	0.020	**J**
98-83-9	alpha-Methylstyrene	ND	0.81	0.12	ND	0.17	0.024	
95-63-6	**1,2,4-Trimethylbenzene**	**0.38**	0.81	0.11	**0.076**	0.16	0.023	**J**
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**	**78**	0.16	0.091	**13**	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.81	0.094	ND	0.15	0.017	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.18**	0.81	0.11	**0.033**	0.15	0.019	**J**
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	0.81	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**	**1.8**	0.32	0.12	**0.35**	0.062	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.15	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.32	0.081	ND	0.059	0.015	
104-51-8	n-Butylbenzene	ND	0.32	0.081	ND	0.059	0.015	

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Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG88B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00796

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

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

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)**	**2.1**	0.84	0.084	**0.42**	0.17	0.017	
74-87-3	**Chloromethane**	**0.15**	0.17	0.084	**0.072**	0.081	0.040	**J**
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.099**	0.84	0.084	**0.014**	0.12	0.012	**J**
75-01-4	Vinyl Chloride	ND	0.17	0.084	ND	0.065	0.033	
74-83-9	Bromomethane	ND	0.17	0.084	ND	0.043	0.022	
75-00-3	**Chloroethane**	**0.28**	0.17	0.084	**0.10**	0.063	0.032	
64-17-5	**Ethanol**	**2.9**	8.4	0.084	**1.5**	4.4	0.044	**J**
67-64-1	**Acetone**	**24**	8.4	0.12	**10**	3.5	0.051	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.17	0.084	**0.21**	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.84	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.27**	0.84	0.12	**0.089**	0.28	0.041	**J**
75-09-2	**Methylene Chloride**	**0.11**	0.84	0.084	**0.031**	0.24	0.024	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.084	ND	0.053	0.027	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.17	0.094	**0.068**	0.022	0.012	
75-15-0	**Carbon Disulfide**	**9.6**	0.84	0.20	**3.1**	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-34-3	**1,1-Dichloroethane**	**0.18**	0.17	0.084	**0.044**	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.084	ND	0.046	0.023	
108-05-4	**Vinyl Acetate**	**14**	8.4	0.27	**3.9**	2.4	0.076	
78-93-3	**2-Butanone (MEK)**	**4.4**	0.84	0.084	**1.5**	0.28	0.028	
156-59-2	**cis-1,2-Dichloroethene**	**0.16**	0.17	0.084	**0.040**	0.042	0.021	**J**
108-20-3	Diisopropyl Ether	ND	0.84	0.099	ND	0.20	0.024	
67-66-3	**Chloroform**	**12**	0.17	0.099	**2.4**	0.034	0.020	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG88B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-006

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00796

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

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	0.84	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.084	ND	0.041	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
71-43-2	**Benzene**	**2.6**	0.17	0.084	**0.82**	0.052	0.026	
56-23-5	**Carbon Tetrachloride**	**20**	0.17	0.084	**3.2**	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.84	0.084	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.084	ND	0.036	0.018	
75-27-4	**Bromodichloromethane**	**0.16**	0.17	0.084	**0.024**	0.025	0.012	**J**
79-01-6	**Trichloroethene**	**0.20**	0.17	0.084	**0.036**	0.031	0.016	
123-91-1	**1,4-Dioxane**	**0.29**	0.84	0.10	**0.081**	0.23	0.028	**J**
80-62-6	Methyl Methacrylate	ND	0.84	0.13	ND	0.20	0.031	
142-82-5	**n-Heptane**	**0.18**	0.84	0.11	**0.043**	0.20	0.026	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.087	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**0.26**	0.84	0.094	**0.064**	0.20	0.023	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.11	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	**Toluene**	**9.2**	0.84	0.084	**2.4**	0.22	0.022	
591-78-6	**2-Hexanone**	**0.87**	0.84	0.13	**0.21**	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	**n-Octane**	**0.22**	0.84	0.084	**0.047**	0.18	0.018	**J**
127-18-4	**Tetrachloroethene**	**8.4**	0.17	0.084	**1.2**	0.025	0.012	
108-90-7	**Chlorobenzene**	**0.62**	0.17	0.085	**0.13**	0.036	0.019	

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Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG88B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00796

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

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

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**	**4.4**	0.84	0.10	**1.0**	0.19	0.024	
179601-23-1	**m,p-Xylenes**	**37**	0.84	0.22	**8.4**	0.19	0.050	
75-25-2	Bromoform	ND	0.84	0.13	ND	0.081	0.012	
100-42-5	**Styrene**	**0.14**	0.84	0.13	**0.034**	0.20	0.030	**J**
95-47-6	**o-Xylene**	**7.1**	0.84	0.11	**1.6**	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.016	
98-82-8	**Cumene**	**0.18**	0.84	0.094	**0.036**	0.17	0.019	**J**
103-65-1	**n-Propylbenzene**	**0.53**	0.84	0.087	**0.11**	0.17	0.018	**J**
622-96-8	**4-Ethyltoluene**	**1.5**	0.84	0.095	**0.30**	0.17	0.019	
108-67-8	**1,3,5-Trimethylbenzene**	**2.2**	0.84	0.10	**0.45**	0.17	0.020	
98-83-9	alpha-Methylstyrene	ND	0.84	0.12	ND	0.17	0.025	
95-63-6	**1,2,4-Trimethylbenzene**	**10**	0.84	0.12	**2.1**	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	**1,3-Dichlorobenzene**	**0.23**	0.17	0.10	**0.039**	0.028	0.017	
106-46-7	**1,4-Dichlorobenzene**	**110**	0.17	0.094	**19**	0.028	0.016	
135-98-8	sec-Butylbenzene	ND	0.84	0.097	ND	0.15	0.018	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.91**	0.84	0.11	**0.17**	0.15	0.020	
95-50-1	**1,2-Dichlorobenzene**	**2.4**	0.17	0.11	**0.39**	0.028	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	**Naphthalene**	**9.5**	0.33	0.12	**1.8**	0.064	0.024	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.084	ND	0.061	0.015	
104-51-8	**n-Butylbenzene**	**1.5**	0.33	0.084	**0.27**	0.061	0.015	

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Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG72B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801442
CAS Sample ID: P0801442-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00329

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)
0.25 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)**	**2.0**	0.79	0.079	**0.41**	0.16	0.016	
74-87-3	**Chloromethane**	**0.23**	0.16	0.079	**0.11**	0.077	0.038	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.085**	0.79	0.079	**0.012**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	**Bromomethane**	**0.72**	0.16	0.079	**0.19**	0.041	0.020	
75-00-3	**Chloroethane**	**0.77**	0.16	0.079	**0.29**	0.060	0.030	
64-17-5	**Ethanol**	**4.3**	7.9	0.079	**2.3**	4.2	0.042	**J**
67-64-1	**Acetone**	**17**	7.9	0.12	**7.0**	3.3	0.049	**B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.16	0.079	**0.27**	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	**1,1-Dichloroethene**	**72**	0.16	0.079	**18**	0.040	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.9**	0.79	0.12	**0.64**	0.26	0.039	
75-09-2	**Methylene Chloride**	**0.54**	0.79	0.079	**0.16**	0.23	0.023	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.16	0.088	**0.072**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**4.8**	0.79	0.19	**1.5**	0.25	0.061	
156-60-5	**trans-1,2-Dichloroethene**	**0.085**	0.16	0.079	**0.022**	0.040	0.020	**J**
75-34-3	**1,1-Dichloroethane**	**0.37**	0.16	0.079	**0.091**	0.039	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.079	ND	0.044	0.022	
108-05-4	**Vinyl Acetate**	**29**	7.9	0.25	**8.3**	2.2	0.072	
78-93-3	**2-Butanone (MEK)**	**4.0**	0.79	0.079	**1.4**	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	**Chloroform**	**590**	0.16	0.093	**120**	0.032	0.019	

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Verified By: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG72B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-007

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 1.00 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.25 Liter(s)
Test Notes:
Container ID: SC00329

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	0.79	0.081	ND	0.19	0.019	
107-06-2	**1,2-Dichloroethane**	**0.15**	0.16	0.079	**0.036**	0.039	0.020	**J**
71-55-6	**1,1,1-Trichloroethane**	**0.53**	0.16	0.079	**0.098**	0.029	0.014	
71-43-2	**Benzene**	**5.4**	0.16	0.079	**1.7**	0.049	0.025	
56-23-5	**Carbon Tetrachloride**	**7.5**	0.16	0.079	**1.2**	0.025	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	**1,2-Dichloropropane**	**0.99**	0.16	0.079	**0.21**	0.034	0.017	
75-27-4	**Bromodichloromethane**	**12**	0.16	0.079	**1.7**	0.024	0.012	
79-01-6	**Trichloroethene**	**5.0**	0.16	0.079	**0.93**	0.029	0.015	
123-91-1	**1,4-Dioxane**	**0.27**	0.79	0.096	**0.074**	0.22	0.027	**J**
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	**n-Heptane**	**1.1**	0.79	0.10	**0.26**	0.19	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**0.35**	0.79	0.088	**0.086**	0.19	0.022	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	**1,1,2-Trichloroethane**	**0.53**	0.16	0.079	**0.097**	0.029	0.014	
108-88-3	**Toluene**	**5.3**	0.79	0.079	**1.4**	0.21	0.021	
591-78-6	**2-Hexanone**	**0.84**	0.79	0.12	**0.20**	0.19	0.029	
124-48-1	**Dibromochloromethane**	**1.2**	0.16	0.11	**0.15**	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.79	0.079	ND	0.17	0.017	
127-18-4	**Tetrachloroethene**	**280**	0.16	0.079	**41**	0.023	0.012	
108-90-7	**Chlorobenzene**	**3.3**	0.16	0.081	**0.72**	0.034	0.018	

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

Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG72B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00329

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)
0.25 Liter(s)

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

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.96**	0.79	0.098	**0.22**	0.18	0.023	
179601-23-1	**m,p-Xylenes**	**5.7**	0.79	0.21	**1.3**	0.18	0.047	
75-25-2	Bromoform	ND	0.79	0.12	ND	0.076	0.012	
100-42-5	**Styrene**	**0.21**	0.79	0.12	**0.049**	0.19	0.028	**J**
95-47-6	**o-Xylene**	**2.5**	0.79	0.10	**0.57**	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	**Cumene**	**0.12**	0.79	0.088	**0.024**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.18**	0.79	0.082	**0.037**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.33**	0.79	0.090	**0.067**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.46**	0.79	0.095	**0.093**	0.16	0.019	**J**
98-83-9	**alpha-Methylstyrene**	**0.21**	0.79	0.12	**0.044**	0.16	0.024	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**	0.79	0.11	**0.30**	0.16	0.022	
100-44-7	**Benzyl Chloride**	**0.14**	0.16	0.14	**0.027**	0.031	0.026	**J**
541-73-1	**1,3-Dichlorobenzene**	**2.4**	0.16	0.098	**0.40**	0.026	0.016	
106-46-7	**1,4-Dichlorobenzene**	**60**	0.16	0.088	**9.9**	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.092	ND	0.14	0.017	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.47**	0.79	0.10	**0.086**	0.14	0.019	**J**
95-50-1	**1,2-Dichlorobenzene**	**16**	0.16	0.10	**2.7**	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	**1,2,4-Trichlorobenzene**	**1.9**	0.16	0.12	**0.26**	0.021	0.016	
91-20-3	**Naphthalene**	**1.4**	0.32	0.12	**0.27**	0.060	0.022	
87-68-3	**Hexachlorobutadiene**	**46**	0.16	0.14	**4.3**	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	**n-Butylbenzene**	**0.44**	0.32	0.079	**0.081**	0.058	0.014	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG70B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00072

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0012 Liter(s)

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

Canister Dilution Factor: 1.60

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	160	16	ND	32	3.2	
74-87-3	Chloromethane	ND	32	16	ND	16	7.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	13	6.3	
74-83-9	Bromomethane	ND	32	16	ND	8.2	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.1	
64-17-5	Ethanol	ND	1,600	16	ND	850	8.5	
67-64-1	**Acetone**	**190**	1,600	23	**81**	670	9.8	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.7	2.8	
107-13-1	Acrylonitrile	ND	160	22	ND	74	10	
75-35-4	**1,1-Dichloroethene**	**25**	32	16	**6.3**	8.1	4.0	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	53	7.8	
75-09-2	**Methylene Chloride**	**47**	160	16	**13**	46	4.6	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.1	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.2	2.3	
75-15-0	Carbon Disulfide	ND	160	38	ND	51	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.1	4.0	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	7.9	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.9	4.4	
108-05-4	Vinyl Acetate	ND	1,600	51	ND	450	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	54	5.4	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.1	4.0	
108-20-3	Diisopropyl Ether	ND	160	19	ND	38	4.5	
67-66-3	**Chloroform**	**130,000**	32	19	**26,000**	6.6	3.9	

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

Verified By: KG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG70B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00072

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0012 Liter(s)

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

Canister Dilution Factor: 1.60

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	160	16	ND	38	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	7.9	4.0	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.9	2.9	
71-43-2	Benzene	ND	32	16	ND	10	5.0	
56-23-5	Carbon Tetrachloride	ND	32	16	ND	5.1	2.5	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	38	3.8	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	6.9	3.5	
75-27-4	**Bromodichloromethane**	**29**	32	16	**4.3**	4.8	2.4	**J**
79-01-6	**Trichloroethene**	**36**	32	16	**6.7**	6.0	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	44	5.4	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.9	
142-82-5	n-Heptane	ND	160	20	ND	39	5.0	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	35	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.4	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.4	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.9	2.9	
108-88-3	Toluene	ND	160	16	ND	42	4.2	
591-78-6	2-Hexanone	ND	160	24	ND	39	5.9	
124-48-1	Dibromochloromethane	ND	32	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.2	2.2	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**230**	32	16	**35**	4.7	2.4	
108-90-7	Chlorobenzene	ND	32	16	ND	7.0	3.5	

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: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG70B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00072

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0012 Liter(s)

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

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	160	20	ND	37	4.6	
179601-23-1	m,p-Xylenes	ND	160	42	ND	37	9.6	
75-25-2	Bromoform	ND	160	24	ND	15	2.4	
100-42-5	Styrene	ND	160	24	ND	38	5.7	
95-47-6	o-Xylene	ND	160	20	ND	37	4.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	20	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.6	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	18	ND	33	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	33	3.9	
98-83-9	alpha-Methylstyrene	ND	160	23	ND	33	4.8	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.5	
100-44-7	Benzyl Chloride	ND	32	28	ND	6.2	5.3	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.3	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.3	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	29	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.8	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.3	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	17	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.3	
91-20-3	**Naphthalene**	**27**	64	24	**5.2**	12	4.5	**J**
87-68-3	Hexachlorobutadiene	ND	32	29	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	64	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	64	16	ND	12	2.9	

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.

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG71B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00571

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

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	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	32	16	ND	16	7.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	13	6.3	
74-83-9	Bromomethane	ND	32	16	ND	8.3	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.1	
64-17-5	Ethanol	ND	1,600	16	ND	850	8.5	
67-64-1	**Acetone**	**65**	1,600	24	**27**	680	9.9	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.7	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	74	10	
75-35-4	1,1-Dichloroethene	ND	32	16	ND	8.1	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	53	7.9	
75-09-2	**Methylene Chloride**	**33**	160	16	**9.4**	46	4.6	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.1	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.2	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.1	4.1	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	8.0	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.9	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.1	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.5	
67-66-3	**Chloroform**	**120,000**	32	19	**24,000**	6.6	3.9	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG71B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-009

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/21/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.0050 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.0010 Liter(s)
Test Notes:
Container ID: SC00571

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

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	160	16	ND	39	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	8.0	4.0	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.9	3.0	
71-43-2	Benzene	ND	32	16	ND	10	5.0	
56-23-5	Carbon Tetrachloride	ND	32	16	ND	5.1	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	7.0	3.5	
75-27-4	**Bromodichloromethane**	**140**	32	16	**22**	4.8	2.4	
79-01-6	Trichloroethene	ND	32	16	ND	6.0	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.9	
142-82-5	n-Heptane	ND	160	21	ND	39	5.0	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	35	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.4	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.5	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.9	3.0	
108-88-3	Toluene	ND	160	16	ND	43	4.3	
591-78-6	2-Hexanone	ND	160	24	ND	39	6.0	
124-48-1	**Dibromochloromethane**	**37**	32	22	**4.3**	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**170**	32	16	**25**	4.8	2.4	
108-90-7	Chlorobenzene	ND	32	16	ND	7.0	3.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG71B-05** CAS Sample ID: P0801442-009
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/21/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.0050 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.0010 Liter(s)
Test Notes:
Container ID: SC00571

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

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	ND	160	20	ND	37	4.6	
179601-23-1	m,p-Xylenes	ND	160	42	ND	37	9.6	
75-25-2	Bromoform	ND	160	24	ND	16	2.4	
100-42-5	Styrene	ND	160	24	ND	38	5.8	
95-47-6	o-Xylene	ND	160	20	ND	37	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	18	ND	33	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	33	3.9	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	33	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.5	
100-44-7	Benzyl Chloride	ND	32	28	ND	6.2	5.4	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.4	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	29	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.8	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.4	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	17	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.3	
91-20-3	Naphthalene	ND	64	24	ND	12	4.5	
87-68-3	Hexachlorobutadiene	ND	32	29	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	64	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	64	16	ND	12	2.9	

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.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00201

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

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**	0.74	0.074	**0.41**	0.15	0.015	
74-87-3	**Chloromethane**	**0.11**	0.15	0.074	**0.051**	0.071	0.036	**J**
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.10**	0.74	0.074	**0.015**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.15	0.074	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.074	ND	0.038	0.019	
75-00-3	**Chloroethane**	**0.30**	0.15	0.074	**0.11**	0.056	0.028	
64-17-5	**Ethanol**	**53**	7.4	0.074	**28**	3.9	0.039	
67-64-1	**Acetone**	**27**	7.4	0.11	**12**	3.1	0.045	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.15	0.074	**0.21**	0.026	0.013	
107-13-1	**Acrylonitrile**	**0.11**	0.74	0.10	**0.053**	0.34	0.047	**J**
75-35-4	**1,1-Dichloroethene**	**0.087**	0.15	0.074	**0.022**	0.037	0.019	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.54**	0.74	0.11	**0.18**	0.24	0.036	**J**
75-09-2	**Methylene Chloride**	**0.29**	0.74	0.074	**0.083**	0.21	0.021	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.074	ND	0.047	0.023	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.15	0.082	**0.068**	0.019	0.011	
75-15-0	**Carbon Disulfide**	**9.0**	0.74	0.18	**2.9**	0.24	0.057	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.074	ND	0.036	0.018	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.074	ND	0.041	0.020	
108-05-4	Vinyl Acetate	ND	7.4	0.24	ND	2.1	0.067	
78-93-3	**2-Butanone (MEK)**	**4.6**	0.74	0.074	**1.6**	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
108-20-3	Diisopropyl Ether	ND	0.74	0.087	ND	0.18	0.021	
67-66-3	**Chloroform**	**6.3**	0.15	0.087	**1.3**	0.030	0.018	

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

Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00201

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

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	0.74	0.075	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.074	ND	0.036	0.018	
71-55-6	**1,1,1-Trichloroethane**	**0.11**	0.15	0.074	**0.020**	0.027	0.013	**J**
71-43-2	**Benzene**	**2.1**	0.15	0.074	**0.66**	0.046	0.023	
56-23-5	**Carbon Tetrachloride**	**0.44**	0.15	0.074	**0.070**	0.023	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.74	0.074	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.074	ND	0.032	0.016	
75-27-4	**Bromodichloromethane**	**0.48**	0.15	0.074	**0.072**	0.022	0.011	
79-01-6	**Trichloroethene**	**0.38**	0.15	0.074	**0.071**	0.027	0.014	
123-91-1	1,4-Dioxane	ND	0.74	0.090	ND	0.20	0.025	
80-62-6	Methyl Methacrylate	ND	0.74	0.11	ND	0.18	0.027	
142-82-5	**n-Heptane**	**0.24**	0.74	0.094	**0.058**	0.18	0.023	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.076	ND	0.16	0.017	
108-10-1	**4-Methyl-2-pentanone**	**0.42**	0.74	0.082	**0.10**	0.18	0.020	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.093	ND	0.16	0.020	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.074	ND	0.027	0.013	
108-88-3	**Toluene**	**9.5**	0.74	0.074	**2.5**	0.20	0.020	
591-78-6	**2-Hexanone**	**0.44**	0.74	0.11	**0.11**	0.18	0.027	**J**
124-48-1	**Dibromochloromethane**	**0.26**	0.15	0.10	**0.030**	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.079	ND	0.019	0.010	
111-65-9	**n-Octane**	**0.36**	0.74	0.074	**0.078**	0.16	0.016	**J**
127-18-4	**Tetrachloroethene**	**2.9**	0.15	0.074	**0.43**	0.022	0.011	
108-90-7	**Chlorobenzene**	**0.093**	0.15	0.075	**0.020**	0.032	0.016	**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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG65B-05** CAS Sample ID: P0801442-010
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00201

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**1.0**	0.74	0.091	**0.23**	0.17	0.021	
179601-23-1	**m,p-Xylenes**	**5.0**	0.74	0.19	**1.2**	0.17	0.044	
75-25-2	**Bromoform**	**0.14**	0.74	0.11	**0.013**	0.071	0.011	**J**
100-42-5	**Styrene**	**0.78**	0.74	0.11	**0.18**	0.17	0.026	
95-47-6	**o-Xylene**	**2.6**	0.74	0.093	**0.59**	0.17	0.021	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.094	ND	0.021	0.014	
98-82-8	**Cumene**	**0.15**	0.74	0.082	**0.030**	0.15	0.017	**J**
103-65-1	**n-Propylbenzene**	**0.44**	0.74	0.076	**0.089**	0.15	0.016	**J**
622-96-8	**4-Ethyltoluene**	**0.64**	0.74	0.084	**0.13**	0.15	0.017	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.68**	0.74	0.088	**0.14**	0.15	0.018	**J**
98-83-9	**alpha-Methylstyrene**	**0.11**	0.74	0.11	**0.023**	0.15	0.022	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.8**	0.74	0.10	**0.36**	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.028	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.091	ND	0.024	0.015	
106-46-7	**1,4-Dichlorobenzene**	**78**	0.15	0.082	**13**	0.024	0.014	
135-98-8	sec-Butylbenzene	ND	0.74	0.085	ND	0.13	0.016	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**1.2**	0.74	0.096	**0.22**	0.13	0.017	
95-50-1	**1,2-Dichlorobenzene**	**0.38**	0.15	0.097	**0.064**	0.024	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	0.11	ND	0.076	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	**Naphthalene**	**0.21**	0.29	0.11	**0.041**	0.056	0.021	**J**
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.012	
98-06-6	tert-Butylbenzene	ND	0.29	0.074	ND	0.054	0.013	
104-51-8	**n-Butylbenzene**	**0.39**	0.29	0.074	**0.070**	0.054	0.013	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00420

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.73	0.073	**0.42**	0.15	0.015	
74-87-3	Chloromethane	ND	0.15	0.073	ND	0.071	0.035	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.11**	0.73	0.073	**0.016**	0.10	0.010	**J**
75-01-4	Vinyl Chloride	ND	0.15	0.073	ND	0.057	0.029	
74-83-9	Bromomethane	ND	0.15	0.073	ND	0.038	0.019	
75-00-3	**Chloroethane**	**0.17**	0.15	0.073	**0.063**	0.055	0.028	
64-17-5	**Ethanol**	**12**	7.3	0.073	**6.4**	3.9	0.039	
67-64-1	**Acetone**	**14**	7.3	0.11	**6.0**	3.1	0.045	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.15	0.073	**0.22**	0.026	0.013	
107-13-1	Acrylonitrile	ND	0.73	0.10	ND	0.34	0.047	
75-35-4	**1,1-Dichloroethene**	**0.074**	0.15	0.073	**0.019**	0.037	0.018	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.47**	0.73	0.11	**0.15**	0.24	0.036	**J**
75-09-2	**Methylene Chloride**	**0.26**	0.73	0.073	**0.076**	0.21	0.021	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.073	ND	0.047	0.023	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.15	0.082	**0.067**	0.019	0.011	
75-15-0	**Carbon Disulfide**	**3.8**	0.73	0.18	**1.2**	0.23	0.056	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.073	ND	0.037	0.018	
75-34-3	1,1-Dichloroethane	ND	0.15	0.073	ND	0.036	0.018	
1634-04-4	**Methyl tert-Butyl Ether**	**0.099**	0.15	0.073	**0.028**	0.041	0.020	**J**
108-05-4	**Vinyl Acetate**	**2.7**	7.3	0.23	**0.78**	2.1	0.066	**J**
78-93-3	**2-Butanone (MEK)**	**3.8**	0.73	0.073	**1.3**	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.073	ND	0.037	0.018	
108-20-3	Diisopropyl Ether	ND	0.73	0.086	ND	0.17	0.021	
67-66-3	**Chloroform**	**7.5**	0.15	0.086	**1.5**	0.030	0.018	

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: 6/2/08

Client: ENSR
Client Sample ID: SG65B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801442
CAS Sample ID: P0801442-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00420

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.73	0.074	ND	0.17	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.073	ND	0.036	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.073	ND	0.027	0.013	
71-43-2	**Benzene**	**1.8**	0.15	0.073	**0.55**	0.046	0.023	
56-23-5	**Carbon Tetrachloride**	**0.50**	0.15	0.073	**0.080**	0.023	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.73	0.073	ND	0.17	0.017	
78-87-5	1,2-Dichloropropane	ND	0.15	0.073	ND	0.032	0.016	
75-27-4	**Bromodichloromethane**	**0.55**	0.15	0.073	**0.082**	0.022	0.011	
79-01-6	**Trichloroethene**	**0.32**	0.15	0.073	**0.060**	0.027	0.014	
123-91-1	**1,4-Dioxane**	**0.30**	0.73	0.089	**0.083**	0.20	0.025	**J**
80-62-6	Methyl Methacrylate	ND	0.73	0.11	ND	0.18	0.027	
142-82-5	**n-Heptane**	**0.17**	0.73	0.093	**0.042**	0.18	0.023	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.076	ND	0.16	0.017	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	0.73	0.082	**0.066**	0.18	0.020	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.092	ND	0.16	0.020	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.073	ND	0.027	0.013	
108-88-3	**Toluene**	**5.2**	0.73	0.073	**1.4**	0.19	0.019	
591-78-6	**2-Hexanone**	**0.34**	0.73	0.11	**0.084**	0.18	0.027	**J**
124-48-1	**Dibromochloromethane**	**0.31**	0.15	0.099	**0.036**	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.079	ND	0.019	0.010	
111-65-9	**n-Octane**	**0.16**	0.73	0.073	**0.035**	0.16	0.016	**J**
127-18-4	**Tetrachloroethene**	**2.0**	0.15	0.073	**0.30**	0.022	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.074	ND	0.032	0.016	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG65B-05D** CAS Sample ID: P0801442-011
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00420

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.63**	0.73	0.091	**0.14**	0.17	0.021	**J**
179601-23-1	**m,p-Xylenes**	**2.6**	0.73	0.19	**0.60**	0.17	0.044	
75-25-2	**Bromoform**	**0.18**	0.73	0.11	**0.018**	0.071	0.011	**J**
100-42-5	Styrene	ND	0.73	0.11	ND	0.17	0.026	
95-47-6	**o-Xylene**	**1.4**	0.73	0.092	**0.33**	0.17	0.021	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.093	ND	0.021	0.014	
98-82-8	Cumene	ND	0.73	0.082	ND	0.15	0.017	
103-65-1	**n-Propylbenzene**	**0.25**	0.73	0.076	**0.051**	0.15	0.015	**J**
622-96-8	**4-Ethyltoluene**	**0.43**	0.73	0.083	**0.088**	0.15	0.017	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.27**	0.73	0.088	**0.056**	0.15	0.018	**J**
98-83-9	**alpha-Methylstyrene**	**0.11**	0.73	0.11	**0.024**	0.15	0.022	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	0.73	0.10	**0.22**	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.028	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.091	ND	0.024	0.015	
106-46-7	**1,4-Dichlorobenzene**	**37**	0.15	0.082	**6.2**	0.024	0.014	
135-98-8	sec-Butylbenzene	ND	0.73	0.085	ND	0.13	0.015	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.36**	0.73	0.095	**0.066**	0.13	0.017	**J**
95-50-1	**1,2-Dichlorobenzene**	**0.12**	0.15	0.096	**0.021**	0.024	0.016	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	0.11	ND	0.076	0.011	
120-82-1	**1,2,4-Trichlorobenzene**	**0.24**	0.15	0.11	**0.033**	0.020	0.015	
91-20-3	**Naphthalene**	**2.8**	0.29	0.11	**0.54**	0.056	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.012	
98-06-6	tert-Butylbenzene	ND	0.29	0.073	ND	0.053	0.013	
104-51-8	n-Butylbenzene	ND	0.29	0.073	ND	0.053	0.013	

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: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG84B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00886

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.20 Liter(s)
0.040 Liter(s)

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

Canister Dilution Factor: 1.53

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**	3.8	0.38	**0.42**	0.77	0.077	**J**
74-87-3	Chloromethane	ND	0.77	0.38	ND	0.37	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.8	0.38	ND	0.55	0.055	
75-01-4	Vinyl Chloride	ND	0.77	0.38	ND	0.30	0.15	
74-83-9	Bromomethane	ND	0.77	0.38	ND	0.20	0.099	
75-00-3	Chloroethane	ND	0.77	0.38	ND	0.29	0.15	
64-17-5	**Ethanol**	**14**	38	0.38	**7.6**	20	0.20	**J**
67-64-1	**Acetone**	**29**	38	0.56	**12**	16	0.24	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.77	0.38	**0.27**	0.14	0.068	
107-13-1	Acrylonitrile	ND	3.8	0.54	ND	1.8	0.25	
75-35-4	1,1-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.8**	3.8	0.57	**0.60**	1.3	0.19	**J**
75-09-2	**Methylene Chloride**	**2.9**	3.8	0.38	**0.84**	1.1	0.11	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.77	0.38	ND	0.24	0.12	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.77	0.43	**0.067**	0.10	0.056	**J**
75-15-0	**Carbon Disulfide**	**1.9**	3.8	0.92	**0.61**	1.2	0.29	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
75-34-3	**1,1-Dichloroethane**	**0.40**	0.77	0.38	**0.098**	0.19	0.095	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	0.38	ND	0.21	0.11	
108-05-4	**Vinyl Acetate**	**3.8**	38	1.2	**1.1**	11	0.35	**J**
78-93-3	**2-Butanone (MEK)**	**62**	3.8	0.38	**21**	1.3	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
108-20-3	Diisopropyl Ether	ND	3.8	0.45	ND	0.92	0.11	
67-66-3	**Chloroform**	**4,400**	0.77	0.45	**900**	0.16	0.092	

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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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG84B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00886

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.20 Liter(s)
0.040 Liter(s)

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

Canister Dilution Factor: 1.53

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	3.8	0.39	ND	0.92	0.093	
107-06-2	1,2-Dichloroethane	ND	0.77	0.38	ND	0.19	0.095	
71-55-6	**1,1,1-Trichloroethane**	**0.58**	0.77	0.38	**0.11**	0.14	0.070	**J**
71-43-2	**Benzene**	**5.4**	0.77	0.38	**1.7**	0.24	0.12	
56-23-5	**Carbon Tetrachloride**	**8.7**	0.77	0.38	**1.4**	0.12	0.061	
994-05-8	tert-Amyl Methyl Ether	ND	3.8	0.38	ND	0.92	0.092	
78-87-5	1,2-Dichloropropane	ND	0.77	0.38	ND	0.17	0.083	
75-27-4	**Bromodichloromethane**	**3.8**	0.77	0.38	**0.57**	0.11	0.057	
79-01-6	**Trichloroethene**	**2.7**	0.77	0.38	**0.51**	0.14	0.071	
123-91-1	1,4-Dioxane	ND	3.8	0.47	ND	1.1	0.13	
80-62-6	Methyl Methacrylate	ND	3.8	0.57	ND	0.93	0.14	
142-82-5	**n-Heptane**	**0.78**	3.8	0.49	**0.19**	0.93	0.12	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.40	ND	0.84	0.088	
108-10-1	**4-Methyl-2-pentanone**	**1.2**	3.8	0.43	**0.29**	0.93	0.10	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	3.8	0.48	ND	0.84	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.77	0.38	ND	0.14	0.070	
108-88-3	**Toluene**	**16**	3.8	0.38	**4.2**	1.0	0.10	
591-78-6	**2-Hexanone**	**0.89**	3.8	0.58	**0.22**	0.93	0.14	**J**
124-48-1	Dibromochloromethane	ND	0.77	0.52	ND	0.090	0.061	
106-93-4	1,2-Dibromoethane	ND	0.77	0.41	ND	0.10	0.054	
111-65-9	**n-Octane**	**0.73**	3.8	0.38	**0.16**	0.82	0.082	**J**
127-18-4	**Tetrachloroethene**	**26**	0.77	0.38	**3.8**	0.11	0.056	
108-90-7	Chlorobenzene	ND	0.77	0.39	ND	0.17	0.085	

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Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG84B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00886

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.20 Liter(s)
0.040 Liter(s)

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

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**1.9**	3.8	0.47	**0.44**	0.88	0.11	**J**
179601-23-1	**m,p-Xylenes**	**5.1**	3.8	0.99	**1.2**	0.88	0.23	
75-25-2	Bromoform	ND	3.8	0.58	ND	0.37	0.056	
100-42-5	**Styrene**	**1.7**	3.8	0.58	**0.41**	0.90	0.14	**J**
95-47-6	**o-Xylene**	**2.1**	3.8	0.48	**0.49**	0.88	0.11	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.77	0.49	ND	0.11	0.071	
98-82-8	Cumene	ND	3.8	0.43	ND	0.78	0.087	
103-65-1	**n-Propylbenzene**	**0.44**	3.8	0.40	**0.090**	0.78	0.081	**J**
622-96-8	**4-Ethyltoluene**	**0.63**	3.8	0.44	**0.13**	0.78	0.089	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	3.8	0.46	**0.13**	0.78	0.093	**J**
98-83-9	alpha-Methylstyrene	ND	3.8	0.56	ND	0.79	0.12	
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	3.8	0.53	**0.45**	0.78	0.11	**J**
100-44-7	Benzyl Chloride	ND	0.77	0.66	ND	0.15	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.47	ND	0.13	0.079	
106-46-7	**1,4-Dichlorobenzene**	**15**	0.77	0.43	**2.4**	0.13	0.071	
135-98-8	sec-Butylbenzene	ND	3.8	0.44	ND	0.70	0.081	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	3.8	0.50	ND	0.70	0.091	
95-50-1	1,2-Dichlorobenzene	ND	0.77	0.50	ND	0.13	0.084	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.58	ND	0.40	0.060	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	0.58	ND	0.10	0.078	
91-20-3	**Naphthalene**	**1.6**	1.5	0.57	**0.30**	0.29	0.11	
87-68-3	Hexachlorobutadiene	ND	0.77	0.69	ND	0.072	0.065	
98-06-6	tert-Butylbenzene	ND	1.5	0.38	ND	0.28	0.070	
104-51-8	n-Butylbenzene	ND	1.5	0.38	ND	0.28	0.070	

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Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00280

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 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)**	**2.2**	0.78	0.078	**0.44**	0.16	0.016	
74-87-3	**Chloromethane**	**0.42**	0.16	0.078	**0.20**	0.076	0.038	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.098**	0.78	0.078	**0.014**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.078	ND	0.061	0.031	
74-83-9	**Bromomethane**	**0.59**	0.16	0.078	**0.15**	0.040	0.020	
75-00-3	**Chloroethane**	**0.30**	0.16	0.078	**0.11**	0.059	0.030	
64-17-5	**Ethanol**	**2.8**	7.8	0.078	**1.5**	4.1	0.041	**J**
67-64-1	**Acetone**	**12**	7.8	0.11	**4.9**	3.3	0.048	**B**
75-69-4	**Trichlorofluoromethane**	**1.8**	0.16	0.078	**0.33**	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.78	0.11	ND	0.36	0.050	
75-35-4	**1,1-Dichloroethene**	**0.38**	0.16	0.078	**0.096**	0.039	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.60**	0.78	0.12	**0.20**	0.26	0.038	**J**
75-09-2	**Methylene Chloride**	**0.10**	0.78	0.078	**0.030**	0.22	0.022	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.078	ND	0.050	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.16	0.087	**0.072**	0.020	0.011	
75-15-0	**Carbon Disulfide**	**47**	0.78	0.19	**15**	0.25	0.060	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
75-34-3	**1,1-Dichloroethane**	**0.081**	0.16	0.078	**0.020**	0.039	0.019	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.078	ND	0.043	0.022	
108-05-4	**Vinyl Acetate**	**3.1**	7.8	0.25	**0.88**	2.2	0.071	**J**
78-93-3	**2-Butanone (MEK)**	**4.2**	0.78	0.078	**1.4**	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
108-20-3	Diisopropyl Ether	ND	0.78	0.092	ND	0.19	0.022	
67-66-3	**Chloroform**	**71**	0.16	0.092	**15**	0.032	0.019	

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B = Analyte was found in the method blank.

Verified By: KC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-013

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00280

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	0.78	0.080	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	ND	0.16	0.078	ND	0.039	0.019	
71-55-6	**1,1,1-Trichloroethane**	**7.2**	0.16	0.078	**1.3**	0.029	0.014	
71-43-2	**Benzene**	**4.6**	0.16	0.078	**1.4**	0.049	0.024	
56-23-5	**Carbon Tetrachloride**	**3.8**	0.16	0.078	**0.60**	0.025	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.78	0.078	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.078	ND	0.034	0.017	
75-27-4	**Bromodichloromethane**	**0.96**	0.16	0.078	**0.14**	0.023	0.012	**M**
79-01-6	**Trichloroethene**	**0.63**	0.16	0.078	**0.12**	0.029	0.015	
123-91-1	**1,4-Dioxane**	**0.57**	0.78	0.095	**0.16**	0.22	0.026	**J**
80-62-6	Methyl Methacrylate	ND	0.78	0.12	ND	0.19	0.029	
142-82-5	**n-Heptane**	**1.4**	0.78	0.10	**0.34**	0.19	0.024	
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.081	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**1.5**	0.78	0.087	**0.37**	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	0.098	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.078	ND	0.029	0.014	
108-88-3	**Toluene**	**1.4**	0.78	0.078	**0.38**	0.21	0.021	
591-78-6	**2-Hexanone**	**0.74**	0.78	0.12	**0.18**	0.19	0.029	**J**
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.084	ND	0.020	0.011	
111-65-9	**n-Octane**	**0.34**	0.78	0.078	**0.073**	0.17	0.017	**J**
127-18-4	**Tetrachloroethene**	**49**	0.16	0.078	**7.3**	0.023	0.012	
108-90-7	**Chlorobenzene**	**0.14**	0.16	0.080	**0.031**	0.034	0.017	**J**

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

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00280

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 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**	**0.80**	0.78	0.097	**0.18**	0.18	0.022	
179601-23-1	**m,p-Xylenes**	**4.5**	0.78	0.20	**1.0**	0.18	0.047	
75-25-2	Bromoform	ND	0.78	0.12	ND	0.075	0.011	
100-42-5	**Styrene**	**0.18**	0.78	0.12	**0.043**	0.18	0.028	**J**
95-47-6	**o-Xylene**	**1.2**	0.78	0.098	**0.27**	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	**Cumene**	**0.25**	0.78	0.087	**0.050**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.37**	0.78	0.081	**0.075**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.49**	0.78	0.089	**0.10**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.82**	0.78	0.094	**0.17**	0.16	0.019	
98-83-9	alpha-Methylstyrene	ND	0.78	0.11	ND	0.16	0.024	
95-63-6	**1,2,4-Trimethylbenzene**	**2.6**	0.78	0.11	**0.53**	0.16	0.022	
100-44-7	**Benzyl Chloride**	**0.17**	0.16	0.13	**0.033**	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.097	ND	0.026	0.016	
106-46-7	**1,4-Dichlorobenzene**	**2.7**	0.16	0.087	**0.44**	0.026	0.015	
135-98-8	**sec-Butylbenzene**	**0.11**	0.78	0.090	**0.021**	0.14	0.016	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.46**	0.78	0.10	**0.084**	0.14	0.018	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.78	0.12	ND	0.081	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	**Naphthalene**	**2.5**	0.31	0.12	**0.47**	0.060	0.022	
87-68-3	**Hexachlorobutadiene**	**0.50**	0.16	0.14	**0.047**	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.078	ND	0.057	0.014	
104-51-8	**n-Butylbenzene**	**0.66**	0.31	0.078	**0.12**	0.057	0.014	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	20	2.0	ND	4.0	0.40	
74-87-3	Chloromethane	ND	4.0	2.0	ND	1.9	0.97	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	20	2.0	ND	2.9	0.29	
75-01-4	Vinyl Chloride	ND	4.0	2.0	ND	1.6	0.78	
74-83-9	Bromomethane	ND	4.0	2.0	ND	1.0	0.52	
75-00-3	Chloroethane	ND	4.0	2.0	ND	1.5	0.76	
64-17-5	**Ethanol**	**3.8**	200	2.0	**2.0**	110	1.1	**J**
67-64-1	**Acetone**	**14**	200	2.9	**5.9**	84	1.2	**J, B**
75-69-4	Trichlorofluoromethane	ND	4.0	2.0	ND	0.71	0.36	
107-13-1	Acrylonitrile	ND	20	2.8	ND	9.2	1.3	
75-35-4	1,1-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	20	3.0	ND	6.6	0.98	
75-09-2	**Methylene Chloride**	**2.4**	20	2.0	**0.69**	5.8	0.58	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	4.0	2.0	ND	1.3	0.64	
76-13-1	Trichlorotrifluoroethane	ND	4.0	2.2	ND	0.52	0.29	
75-15-0	**Carbon Disulfide**	**11**	20	4.8	**3.4**	6.4	1.5	**J**
156-60-5	trans-1,2-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
75-34-3	1,1-Dichloroethane	ND	4.0	2.0	ND	0.99	0.49	
1634-04-4	Methyl tert-Butyl Ether	ND	4.0	2.0	ND	1.1	0.55	
108-05-4	Vinyl Acetate	ND	200	6.4	ND	57	1.8	
78-93-3	2-Butanone (MEK)	ND	20	2.0	ND	6.8	0.68	
156-59-2	cis-1,2-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
108-20-3	Diisopropyl Ether	ND	20	2.4	ND	4.8	0.56	
67-66-3	**Chloroform**	**4,700**	4.0	2.4	**960**	0.82	0.48	

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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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	20	2.0	ND	4.8	0.49	
107-06-2	1,2-Dichloroethane	ND	4.0	2.0	ND	0.99	0.49	
71-55-6	**1,1,1-Trichloroethane**	**14**	4.0	2.0	**2.6**	0.73	0.37	
71-43-2	**Benzene**	**2.0**	4.0	2.0	**0.64**	1.3	0.63	**J**
56-23-5	**Carbon Tetrachloride**	**7.6**	4.0	2.0	**1.2**	0.64	0.32	
994-05-8	tert-Amyl Methyl Ether	ND	20	2.0	ND	4.8	0.48	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ND	0.87	0.43	
75-27-4	**Bromodichloromethane**	**5.1**	4.0	2.0	**0.76**	0.60	0.30	
79-01-6	**Trichloroethene**	**140**	4.0	2.0	**26**	0.74	0.37	
123-91-1	1,4-Dioxane	ND	20	2.4	ND	5.6	0.68	
80-62-6	Methyl Methacrylate	ND	20	3.0	ND	4.9	0.73	
142-82-5	n-Heptane	ND	20	2.6	ND	4.9	0.62	
10061-01-5	cis-1,3-Dichloropropene	ND	20	2.1	ND	4.4	0.46	
108-10-1	4-Methyl-2-pentanone	ND	20	2.2	ND	4.9	0.55	
10061-02-6	trans-1,3-Dichloropropene	ND	20	2.5	ND	4.4	0.56	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.0	ND	0.73	0.37	
108-88-3	**Toluene**	**23**	20	2.0	**6.2**	5.3	0.53	
591-78-6	2-Hexanone	ND	20	3.0	ND	4.9	0.74	
124-48-1	Dibromochloromethane	ND	4.0	2.7	ND	0.47	0.32	
106-93-4	1,2-Dibromoethane	ND	4.0	2.2	ND	0.52	0.28	
111-65-9	n-Octane	ND	20	2.0	ND	4.3	0.43	
127-18-4	**Tetrachloroethene**	**2,300**	4.0	2.0	**330**	0.59	0.30	
108-90-7	Chlorobenzene	ND	4.0	2.0	ND	0.87	0.44	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG35B-05** CAS Sample ID: P0801442-014
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.040 Liter(s)
Test Notes:
Container ID: SC00693

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

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	20	2.5	ND	4.6	0.57	
179601-23-1	m,p-Xylenes	ND	20	5.2	ND	4.6	1.2	
75-25-2	Bromoform	ND	20	3.0	ND	1.9	0.29	
100-42-5	Styrene	ND	20	3.0	ND	4.7	0.71	
95-47-6	o-Xylene	ND	20	2.5	ND	4.6	0.58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ND	0.58	0.37	
98-82-8	Cumene	ND	20	2.2	ND	4.1	0.46	
103-65-1	n-Propylbenzene	ND	20	2.1	ND	4.1	0.42	
622-96-8	4-Ethyltoluene	ND	20	2.3	ND	4.1	0.46	
108-67-8	1,3,5-Trimethylbenzene	ND	20	2.4	ND	4.1	0.49	
98-83-9	alpha-Methylstyrene	ND	20	2.9	ND	4.1	0.60	
95-63-6	1,2,4-Trimethylbenzene	ND	20	2.8	ND	4.1	0.56	
100-44-7	Benzyl Chloride	ND	4.0	3.4	ND	0.77	0.66	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.5	ND	0.67	0.41	
106-46-7	**1,4-Dichlorobenzene**	**2.5**	4.0	2.2	**0.41**	0.67	0.37	**J**
135-98-8	sec-Butylbenzene	ND	20	2.3	ND	3.6	0.42	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	20	2.6	ND	3.6	0.47	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.6	ND	0.67	0.44	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	3.0	ND	2.1	0.31	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	3.0	ND	0.54	0.41	
91-20-3	Naphthalene	ND	8.0	3.0	ND	1.5	0.56	
87-68-3	**Hexachlorobutadiene**	**460**	4.0	3.6	**43**	0.38	0.34	
98-06-6	tert-Butylbenzene	ND	8.0	2.0	ND	1.5	0.36	
104-51-8	n-Butylbenzene	ND	8.0	2.0	ND	1.5	0.36	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG94B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00640

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

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**	1.9	0.19	**0.40**	0.38	0.038	
74-87-3	**Chloromethane**	**0.26**	0.37	0.19	**0.13**	0.18	0.090	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.19	ND	0.27	0.027	
75-01-4	Vinyl Chloride	ND	0.37	0.19	ND	0.15	0.073	
74-83-9	Bromomethane	ND	0.37	0.19	ND	0.096	0.048	
75-00-3	Chloroethane	ND	0.37	0.19	ND	0.14	0.071	
64-17-5	**Ethanol**	**6.9**	19	0.19	**3.7**	9.9	0.099	**J**
67-64-1	**Acetone**	**7.9**	19	0.27	**3.3**	7.8	0.11	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.37	0.19	**0.19**	0.066	0.033	
107-13-1	Acrylonitrile	ND	1.9	0.26	ND	0.86	0.12	
75-35-4	1,1-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.67**	1.9	0.28	**0.22**	0.61	0.091	**J**
75-09-2	**Methylene Chloride**	**0.34**	1.9	0.19	**0.097**	0.54	0.054	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.37	0.19	ND	0.12	0.059	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.37	0.21	**0.066**	0.049	0.027	
75-15-0	**Carbon Disulfide**	**3.2**	1.9	0.45	**1.0**	0.60	0.14	
156-60-5	trans-1,2-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
75-34-3	1,1-Dichloroethane	ND	0.37	0.19	ND	0.092	0.046	
1634-04-4	Methyl tert-Butyl Ether	ND	0.37	0.19	ND	0.10	0.052	
108-05-4	**Vinyl Acetate**	**1.5**	19	0.60	**0.43**	5.3	0.17	**J**
78-93-3	**2-Butanone (MEK)**	**6.8**	1.9	0.19	**2.3**	0.63	0.063	
156-59-2	cis-1,2-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
108-20-3	Diisopropyl Ether	ND	1.9	0.22	ND	0.45	0.053	
67-66-3	**Chloroform**	**1.5**	0.37	0.22	**0.31**	0.076	0.045	

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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: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG94B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00640

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

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	1.9	0.19	ND	0.45	0.045	
107-06-2	1,2-Dichloroethane	ND	0.37	0.19	ND	0.092	0.046	
71-55-6	1,1,1-Trichloroethane	ND	0.37	0.19	ND	0.068	0.034	
71-43-2	**Benzene**	**3.6**	0.37	0.19	**1.1**	0.12	0.058	
56-23-5	**Carbon Tetrachloride**	**0.40**	0.37	0.19	**0.064**	0.059	0.030	
994-05-8	tert-Amyl Methyl Ether	ND	1.9	0.19	ND	0.45	0.045	
78-87-5	1,2-Dichloropropane	ND	0.37	0.19	ND	0.081	0.040	
75-27-4	Bromodichloromethane	ND	0.37	0.19	ND	0.056	0.028	
79-01-6	**Trichloroethene**	**0.40**	0.37	0.19	**0.075**	0.069	0.035	
123-91-1	1,4-Dioxane	ND	1.9	0.23	ND	0.52	0.063	
80-62-6	Methyl Methacrylate	ND	1.9	0.28	ND	0.45	0.068	
142-82-5	n-Heptane	ND	1.9	0.24	ND	0.45	0.058	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.19	ND	0.41	0.043	
108-10-1	4-Methyl-2-pentanone	ND	1.9	0.21	ND	0.45	0.051	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.23	ND	0.41	0.052	
79-00-5	1,1,2-Trichloroethane	ND	0.37	0.19	ND	0.068	0.034	
108-88-3	**Toluene**	**1.7**	1.9	0.19	**0.44**	0.49	0.049	**J**
591-78-6	**2-Hexanone**	**0.55**	1.9	0.28	**0.14**	0.45	0.069	**J**
124-48-1	Dibromochloromethane	ND	0.37	0.25	ND	0.044	0.030	
106-93-4	1,2-Dibromoethane	ND	0.37	0.20	ND	0.048	0.026	
111-65-9	**n-Octane**	**0.31**	1.9	0.19	**0.065**	0.40	0.040	**J**
127-18-4	**Tetrachloroethene**	**3.9**	0.37	0.19	**0.58**	0.055	0.027	
108-90-7	Chlorobenzene	ND	0.37	0.19	ND	0.081	0.041	

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: RL Date: 6/2/08

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG94B-05** CAS Sample ID: P0801442-015
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00640

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	1.9	0.23	ND	0.43	0.053	
179601-23-1	**m,p-Xylenes**	**0.51**	1.9	0.48	**0.12**	0.43	0.11	**J**
75-25-2	Bromoform	ND	1.9	0.28	ND	0.18	0.027	
100-42-5	Styrene	ND	1.9	0.28	ND	0.44	0.066	
95-47-6	**o-Xylene**	**0.23**	1.9	0.23	**0.054**	0.43	0.054	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.37	0.24	ND	0.054	0.035	
98-82-8	Cumene	ND	1.9	0.21	ND	0.38	0.042	
103-65-1	n-Propylbenzene	ND	1.9	0.19	ND	0.38	0.039	
622-96-8	4-Ethyltoluene	ND	1.9	0.21	ND	0.38	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.22	ND	0.38	0.045	
98-83-9	alpha-Methylstyrene	ND	1.9	0.27	ND	0.38	0.056	
95-63-6	**1,2,4-Trimethylbenzene**	**0.35**	1.9	0.26	**0.071**	0.38	0.052	**J**
100-44-7	Benzyl Chloride	ND	0.37	0.32	ND	0.072	0.062	
541-73-1	1,3-Dichlorobenzene	ND	0.37	0.23	ND	0.062	0.038	
106-46-7	**1,4-Dichlorobenzene**	**2.7**	0.37	0.21	**0.45**	0.062	0.035	
135-98-8	sec-Butylbenzene	ND	1.9	0.22	ND	0.34	0.039	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	1.9	0.24	ND	0.34	0.044	
95-50-1	1,2-Dichlorobenzene	ND	0.37	0.25	ND	0.062	0.041	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.28	ND	0.19	0.029	
120-82-1	1,2,4-Trichlorobenzene	ND	0.37	0.28	ND	0.050	0.038	
91-20-3	**Naphthalene**	**2.6**	0.74	0.28	**0.50**	0.14	0.053	
87-68-3	Hexachlorobutadiene	ND	0.37	0.33	ND	0.035	0.031	
98-06-6	tert-Butylbenzene	ND	0.74	0.19	ND	0.14	0.034	
104-51-8	n-Butylbenzene	ND	0.74	0.19	ND	0.14	0.034	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG95B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00671

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.40 Liter(s)
0.10 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)**	**2.0**	2.0	0.20	**0.40**	0.39	0.039	
74-87-3	**Chloromethane**	**0.30**	0.39	0.20	**0.15**	0.19	0.094	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.20	ND	0.28	0.028	
75-01-4	Vinyl Chloride	ND	0.39	0.20	ND	0.15	0.076	
74-83-9	Bromomethane	ND	0.39	0.20	ND	0.10	0.050	
75-00-3	**Chloroethane**	**0.41**	0.39	0.20	**0.16**	0.15	0.074	
64-17-5	**Ethanol**	**4.4**	20	0.20	**2.3**	10	0.10	**J**
67-64-1	**Acetone**	**13**	20	0.28	**5.5**	8.2	0.12	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.39	0.20	**0.19**	0.069	0.035	
107-13-1	Acrylonitrile	ND	2.0	0.27	ND	0.90	0.13	
75-35-4	**1,1-Dichloroethene**	**8.9**	0.39	0.20	**2.2**	0.098	0.049	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.0**	2.0	0.29	**0.33**	0.64	0.095	**J**
75-09-2	**Methylene Chloride**	**1.6**	2.0	0.20	**0.47**	0.56	0.056	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.39	0.20	ND	0.12	0.062	
76-13-1	**Trichlorotrifluoroethane**	**0.50**	0.39	0.22	**0.065**	0.051	0.029	
75-15-0	**Carbon Disulfide**	**1.8**	2.0	0.47	**0.57**	0.63	0.15	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.39	0.20	ND	0.098	0.049	
75-34-3	**1,1-Dichloroethane**	**0.40**	0.39	0.20	**0.099**	0.096	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.39	0.20	ND	0.11	0.054	
108-05-4	**Vinyl Acetate**	**0.92**	20	0.62	**0.26**	5.5	0.18	**J**
78-93-3	**2-Butanone (MEK)**	**5.8**	2.0	0.20	**2.0**	0.66	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.39	0.20	ND	0.098	0.049	
108-20-3	Diisopropyl Ether	ND	2.0	0.23	ND	0.47	0.055	
67-66-3	**Chloroform**	**1,700**	0.39	0.23	**340**	0.080	0.047	

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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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG95B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00671

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.40 Liter(s)
0.10 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	2.0	0.20	ND	0.47	0.048	
107-06-2	1,2-Dichloroethane	ND	0.39	0.20	ND	0.096	0.048	
71-55-6	1,1,1-Trichloroethane	ND	0.39	0.20	ND	0.072	0.036	
71-43-2	**Benzene**	**2.2**	0.39	0.20	**0.68**	0.12	0.061	
56-23-5	**Carbon Tetrachloride**	**6.6**	0.39	0.20	**1.1**	0.062	0.031	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.20	ND	0.47	0.047	
78-87-5	**1,2-Dichloropropane**	**0.22**	0.39	0.20	**0.048**	0.084	0.042	**J**
75-27-4	**Bromodichloromethane**	**7.4**	0.39	0.20	**1.1**	0.058	0.029	
79-01-6	**Trichloroethene**	**4.2**	0.39	0.20	**0.78**	0.073	0.036	
123-91-1	1,4-Dioxane	ND	2.0	0.24	ND	0.54	0.066	
80-62-6	Methyl Methacrylate	ND	2.0	0.29	ND	0.48	0.071	
142-82-5	n-Heptane	ND	2.0	0.25	ND	0.48	0.061	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ND	0.43	0.045	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	2.0	0.22	**0.067**	0.48	0.053	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.25	ND	0.43	0.054	
79-00-5	1,1,2-Trichloroethane	ND	0.39	0.20	ND	0.072	0.036	
108-88-3	**Toluene**	**8.6**	2.0	0.20	**2.3**	0.52	0.052	
591-78-6	**2-Hexanone**	**0.37**	2.0	0.30	**0.090**	0.48	0.072	**J**
124-48-1	**Dibromochloromethane**	**1.1**	0.39	0.27	**0.13**	0.046	0.031	
106-93-4	1,2-Dibromoethane	ND	0.39	0.21	ND	0.051	0.027	
111-65-9	n-Octane	ND	2.0	0.20	ND	0.42	0.042	
127-18-4	**Tetrachloroethene**	**17**	0.39	0.20	**2.5**	0.058	0.029	
108-90-7	**Chlorobenzene**	**1.3**	0.39	0.20	**0.29**	0.085	0.043	

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Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG95B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00671

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.40 Liter(s)
0.10 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**	**0.97**	2.0	0.24	**0.22**	0.45	0.056	**J**
179601-23-1	**m,p-Xylenes**	**5.7**	2.0	0.51	**1.3**	0.45	0.12	
75-25-2	Bromoform	ND	2.0	0.30	ND	0.19	0.029	
100-42-5	**Styrene**	**0.32**	2.0	0.30	**0.076**	0.46	0.070	**J**
95-47-6	**o-Xylene**	**1.9**	2.0	0.25	**0.45**	0.45	0.057	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.39	0.25	ND	0.057	0.036	
98-82-8	**Cumene**	**0.39**	2.0	0.22	**0.079**	0.40	0.044	**J**
103-65-1	**n-Propylbenzene**	**0.32**	2.0	0.20	**0.064**	0.40	0.041	**J**
622-96-8	**4-Ethyltoluene**	**0.54**	2.0	0.22	**0.11**	0.40	0.045	**J, B**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	2.0	0.23	**0.13**	0.40	0.048	**J**
98-83-9	alpha-Methylstyrene	ND	2.0	0.28	ND	0.40	0.059	
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	2.0	0.27	**0.44**	0.40	0.055	
100-44-7	Benzyl Chloride	ND	0.39	0.34	ND	0.075	0.065	
541-73-1	**1,3-Dichlorobenzene**	**82**	0.39	0.24	**14**	0.065	0.040	
106-46-7	**1,4-Dichlorobenzene**	**24**	0.39	0.22	**4.1**	0.065	0.036	
135-98-8	**sec-Butylbenzene**	**0.45**	2.0	0.23	**0.082**	0.36	0.041	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.49**	2.0	0.25	**0.089**	0.36	0.046	**J**
95-50-1	**1,2-Dichlorobenzene**	**52**	0.39	0.26	**8.7**	0.065	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.30	ND	0.20	0.031	
120-82-1	**1,2,4-Trichlorobenzene**	**240**	0.39	0.30	**32**	0.053	0.040	
91-20-3	**Naphthalene**	**2.7**	0.78	0.29	**0.52**	0.15	0.055	
87-68-3	**Hexachlorobutadiene**	**3.9**	0.39	0.35	**0.37**	0.037	0.033	
98-06-6	tert-Butylbenzene	ND	0.78	0.20	ND	0.14	0.036	
104-51-8	**n-Butylbenzene**	**0.57**	0.78	0.20	**0.10**	0.14	0.036	**J**

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: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG89B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00634

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 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)	ND	160	16	ND	32	3.2	
74-87-3	Chloromethane	ND	32	16	ND	15	7.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	12	6.2	
74-83-9	Bromomethane	ND	32	16	ND	8.1	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.0	
64-17-5	Ethanol	ND	1,600	16	ND	840	8.4	
67-64-1	**Acetone**	**44**	1,600	23	**19**	670	9.7	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.6	2.8	
107-13-1	Acrylonitrile	ND	160	22	ND	73	10	
75-35-4	**1,1-Dichloroethene**	**44**	32	16	**11**	8.0	4.0	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	23	ND	52	7.7	
75-09-2	**Methylene Chloride**	**27**	160	16	**7.8**	45	4.5	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.0	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.1	2.3	
75-15-0	Carbon Disulfide	ND	160	38	ND	51	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.0	4.0	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	7.8	3.9	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.8	4.4	
108-05-4	Vinyl Acetate	ND	1,600	51	ND	450	14	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	54	5.4	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.0	4.0	
108-20-3	Diisopropyl Ether	ND	160	19	ND	38	4.5	
67-66-3	**Chloroform**	**130,000**	32	19	**28,000**	6.5	3.8	

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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG89B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00634

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 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	160	16	ND	38	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	7.8	3.9	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.8	2.9	
71-43-2	Benzene	ND	32	16	ND	9.9	4.9	
56-23-5	**Carbon Tetrachloride**	**40**	32	16	**6.3**	5.0	2.5	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	38	3.8	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	6.8	3.4	
75-27-4	**Bromodichloromethane**	**200**	32	16	**30**	4.7	2.4	
79-01-6	**Trichloroethene**	**28**	32	16	**5.2**	5.9	2.9	**J**
123-91-1	1,4-Dioxane	ND	160	19	ND	44	5.4	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.8	
142-82-5	n-Heptane	ND	160	20	ND	39	4.9	
10061-01-5	cis-1,3-Dichloropropene	ND	160	16	ND	35	3.6	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.3	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.4	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.8	2.9	
108-88-3	Toluene	ND	160	16	ND	42	4.2	
591-78-6	2-Hexanone	ND	160	24	ND	39	5.9	
124-48-1	**Dibromochloromethane**	**160**	32	21	**19**	3.7	2.5	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.1	2.2	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**95**	32	16	**14**	4.7	2.3	
108-90-7	Chlorobenzene	ND	32	16	ND	6.9	3.5	

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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG89B-05** CAS Sample ID: P0801442-017
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.0050 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.0010 Liter(s)
Test Notes:
Container ID: SC00634

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	ND	160	20	ND	36	4.5	
179601-23-1	m,p-Xylenes	ND	160	41	ND	36	9.5	
75-25-2	**Bromoform**	**140**	160	24	**14**	15	2.3	**J**
100-42-5	Styrene	ND	160	24	ND	37	5.6	
95-47-6	**o-Xylene**	**37**	160	20	**8.6**	36	4.6	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	20	ND	4.6	2.9	
98-82-8	Cumene	ND	160	18	ND	32	3.6	
103-65-1	n-Propylbenzene	ND	160	16	ND	32	3.3	
622-96-8	4-Ethyltoluene	ND	160	18	ND	32	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	32	3.9	
98-83-9	alpha-Methylstyrene	ND	160	23	ND	33	4.8	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	32	4.4	
100-44-7	Benzyl Chloride	ND	32	27	ND	6.1	5.3	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.3	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.3	2.9	
135-98-8	sec-Butylbenzene	ND	160	18	ND	29	3.3	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.7	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.3	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	16	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.2	
91-20-3	Naphthalene	ND	63	23	ND	12	4.5	
87-68-3	Hexachlorobutadiene	ND	32	28	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	63	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	63	16	ND	12	2.9	

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.

Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG75B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00575

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.075 Liter(s)
0.015 Liter(s)

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

Canister Dilution Factor: 1.64

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**	11	1.1	**0.42**	2.2	0.22	**J**
74-87-3	**Chloromethane**	**2.4**	2.2	1.1	**1.1**	1.1	0.53	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.6	0.16	
75-01-4	Vinyl Chloride	ND	2.2	1.1	ND	0.86	0.43	
74-83-9	Bromomethane	ND	2.2	1.1	ND	0.56	0.28	
75-00-3	Chloroethane	ND	2.2	1.1	ND	0.83	0.41	
64-17-5	**Ethanol**	**61**	110	1.1	**32**	58	0.58	**J**
67-64-1	**Acetone**	**19**	110	1.6	**8.0**	46	0.67	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.3**	2.2	1.1	**0.23**	0.39	0.19	**J**
107-13-1	Acrylonitrile	ND	11	1.5	ND	5.0	0.71	
75-35-4	**1,1-Dichloroethene**	**17**	2.2	1.1	**4.3**	0.55	0.28	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.6	0.53	
75-09-2	**Methylene Chloride**	**1.9**	11	1.1	**0.54**	3.1	0.31	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	1.1	ND	0.70	0.35	
76-13-1	Trichlorotrifluoroethane	ND	2.2	1.2	ND	0.29	0.16	
75-15-0	**Carbon Disulfide**	**4.3**	11	2.6	**1.4**	3.5	0.84	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.2	1.1	ND	0.55	0.28	
75-34-3	1,1-Dichloroethane	ND	2.2	1.1	ND	0.54	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	1.1	ND	0.61	0.30	
108-05-4	Vinyl Acetate	ND	110	3.5	ND	31	0.99	
78-93-3	**2-Butanone (MEK)**	**3.5**	11	1.1	**1.2**	3.7	0.37	**J**
156-59-2	cis-1,2-Dichloroethene	ND	2.2	1.1	ND	0.55	0.28	
108-20-3	Diisopropyl Ether	ND	11	1.3	ND	2.6	0.31	
67-66-3	**Chloroform**	**11,000**	2.2	1.3	**2,200**	0.45	0.26	

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: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG75B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00575

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.075 Liter(s)
0.015 Liter(s)

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

Canister Dilution Factor: 1.64

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	11	1.1	ND	2.6	0.27	
107-06-2	1,2-Dichloroethane	ND	2.2	1.1	ND	0.54	0.27	
71-55-6	1,1,1-Trichloroethane	ND	2.2	1.1	ND	0.40	0.20	
71-43-2	**Benzene**	**2.8**	2.2	1.1	**0.88**	0.68	0.34	
56-23-5	**Carbon Tetrachloride**	**19**	2.2	1.1	**3.0**	0.35	0.17	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.6	0.26	
78-87-5	1,2-Dichloropropane	ND	2.2	1.1	ND	0.47	0.24	
75-27-4	**Bromodichloromethane**	**4.0**	2.2	1.1	**0.59**	0.33	0.16	
79-01-6	**Trichloroethene**	**180**	2.2	1.1	**33**	0.41	0.20	
123-91-1	1,4-Dioxane	ND	11	1.3	ND	3.0	0.37	
80-62-6	Methyl Methacrylate	ND	11	1.6	ND	2.7	0.40	
142-82-5	n-Heptane	ND	11	1.4	ND	2.7	0.34	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.1	ND	2.4	0.25	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.7	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.4	ND	2.4	0.30	
79-00-5	1,1,2-Trichloroethane	ND	2.2	1.1	ND	0.40	0.20	
108-88-3	**Toluene**	**2.9**	11	1.1	**0.78**	2.9	0.29	**J**
591-78-6	2-Hexanone	ND	11	1.7	ND	2.7	0.41	
124-48-1	Dibromochloromethane	ND	2.2	1.5	ND	0.26	0.17	
106-93-4	1,2-Dibromoethane	ND	2.2	1.2	ND	0.28	0.15	
111-65-9	n-Octane	ND	11	1.1	ND	2.3	0.23	
127-18-4	**Tetrachloroethene**	**15**	2.2	1.1	**2.2**	0.32	0.16	
108-90-7	Chlorobenzene	ND	2.2	1.1	ND	0.48	0.24	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG75B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00575

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.075 Liter(s)
0.015 Liter(s)

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

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.4	ND	2.5	0.31	
179601-23-1	m,p-Xylenes	ND	11	2.8	ND	2.5	0.65	
75-25-2	Bromoform	ND	11	1.7	ND	1.1	0.16	
100-42-5	Styrene	ND	11	1.7	ND	2.6	0.39	
95-47-6	o-Xylene	ND	11	1.4	ND	2.5	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	1.4	ND	0.32	0.20	
98-82-8	Cumene	ND	11	1.2	ND	2.2	0.25	
103-65-1	n-Propylbenzene	ND	11	1.1	ND	2.2	0.23	
622-96-8	4-Ethyltoluene	ND	11	1.2	ND	2.2	0.25	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.2	0.27	
98-83-9	alpha-Methylstyrene	ND	11	1.6	ND	2.3	0.33	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.2	0.31	
100-44-7	Benzyl Chloride	ND	2.2	1.9	ND	0.42	0.36	
541-73-1	1,3-Dichlorobenzene	ND	2.2	1.4	ND	0.36	0.23	
106-46-7	1,4-Dichlorobenzene	ND	2.2	1.2	ND	0.36	0.20	
135-98-8	sec-Butylbenzene	ND	11	1.3	ND	2.0	0.23	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	ND	2.2	1.4	ND	0.36	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ND	1.1	0.17	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	1.7	ND	0.29	0.22	
91-20-3	Naphthalene	ND	4.4	1.6	ND	0.83	0.31	
87-68-3	Hexachlorobutadiene	ND	2.2	2.0	ND	0.21	0.18	
98-06-6	tert-Butylbenzene	ND	4.4	1.1	ND	0.80	0.20	
104-51-8	n-Butylbenzene	ND	4.4	1.1	ND	0.80	0.20	

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: 6/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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**	**0.22**	5.0	0.073	**0.094**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	**V**
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Verified By: RL Date: 5/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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.

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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	V
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	V
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	V

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.
V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: R.. Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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**	**0.11**	5.0	0.050	**0.061**	2.7	0.027	**J**
67-64-1	**Acetone**	**0.56**	5.0	0.073	**0.24**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	**L, V**
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)**	**0.089**	0.50	0.050	**0.030**	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.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.

Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **Method Blank** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080522-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: 5/22/08
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	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	L
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.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.

Verified By: RG Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	V

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.
V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: RC. Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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**	**0.19**	5.0	0.073	**0.079**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

Verified By: RL Date: 6/2/08

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

CAS Project ID: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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: RL Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Client: **ENSR**
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Project ID: P0801442

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 5/14 - 5/15/08
Analyst: Wida Ang Date(s) Received: 5/16/08
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 5/21 - 5/24/08
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	P080521-MB	**84**	70-130	**106**	70-130	**111**	70-130	
Method Blank	P080522-MB	**82**	70-130	**106**	70-130	**111**	70-130	
Method Blank	P080524-MB	**97**	70-130	**102**	70-130	**99**	70-130	
Lab Control Sample	P080521-LCS	**86**	70-130	**103**	70-130	**113**	70-130	
Lab Control Sample	P080522-LCS	**84**	70-130	**105**	70-130	**112**	70-130	
Lab Control Sample	P080524-LCS	**96**	70-130	**100**	70-130	**103**	70-130	
SG73B-05	P0801442-001	**97**	70-130	**97**	70-130	**100**	70-130	
SG39B-05	P0801442-002	**95**	70-130	**98**	70-130	**100**	70-130	
SG37B-20	P0801442-003	**93**	70-130	**96**	70-130	**100**	70-130	
SG36B-20	P0801442-004	**100**	70-130	**98**	70-130	**98**	70-130	
SG44B-05	P0801442-005	**92**	70-130	**99**	70-130	**103**	70-130	
SG88B-05	P0801442-006	**92**	70-130	**98**	70-130	**101**	70-130	
SG72B-05	P0801442-007	**89**	70-130	**98**	70-130	**102**	70-130	
SG70B-05	P0801442-008	**95**	70-130	**101**	70-130	**100**	70-130	
SG71B-05	P0801442-009	**96**	70-130	**100**	70-130	**99**	70-130	
SG65B-05	P0801442-010	**89**	70-130	**100**	70-130	**102**	70-130	
SG65B-05D	P0801442-011	**92**	70-130	**100**	70-130	**101**	70-130	
SG84B-05	P0801442-012	**91**	70-130	**100**	70-130	**100**	70-130	
SG85B-05	P0801442-013	**91**	70-130	**98**	70-130	**102**	70-130	
SG35B-05	P0801442-014	**102**	70-130	**101**	70-130	**98**	70-130	
SG35B-05	P0801442-014DUP	**101**	70-130	**101**	70-130	**99**	70-130	
SG94B-05	P0801442-015	**91**	70-130	**100**	70-130	**102**	70-130	
SG95B-05	P0801442-016	**90**	70-130	**101**	70-130	**102**	70-130	
SG89B-05	P0801442-017	**96**	70-130	**100**	70-130	**97**	70-130	
SG75B-05	P0801442-018	**91**	70-130	**102**	70-130	**102**	70-130	

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080521-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: 5/21/08
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
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	**19.6**	**77**	69-117	
74-87-3	Chloromethane	24.5	**20.6**	**84**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**23.3**	**90**	58-133	
75-01-4	Vinyl Chloride	24.8	**18.2**	**73**	61-127	
74-83-9	Bromomethane	25.0	**19.6**	**78**	67-124	
75-00-3	Chloroethane	25.0	**20.5**	**82**	69-123	
64-17-5	Ethanol	23.8	**20.9**	**88**	56-137	
67-64-1	Acetone	26.8	**19.8**	**74**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**22.1**	**84**	71-120	
107-13-1	Acrylonitrile	25.5	**22.5**	**88**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.7**	**85**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**19.5**	**76**	35-141	
75-09-2	Methylene Chloride	27.8	**21.0**	**76**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**20.6**	**77**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.0**	**97**	63-129	
75-15-0	Carbon Disulfide	25.0	**19.8**	**79**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**21.1**	**80**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**20.3**	**76**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**20.8**	**78**	72-119	
108-05-4	Vinyl Acetate	25.3	**19.7**	**78**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**21.9**	**81**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**21.5**	**80**	74-117	
108-20-3	Diisopropyl Ether	26.3	**21.7**	**83**	70-131	
67-66-3	Chloroform	29.8	**24.9**	**84**	72-113	

Verified By: Rc Date: 6/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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	**22.2**	**85**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**20.5**	**78**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**22.7**	**85**	78-114	
71-43-2	Benzene	27.0	**21.0**	**78**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**25.6**	**98**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**21.2**	**82**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**21.7**	**82**	78-117	
75-27-4	Bromodichloromethane	27.8	**23.8**	**86**	77-120	
79-01-6	Trichloroethene	27.3	**25.6**	**94**	80-116	
123-91-1	1,4-Dioxane	27.5	**24.1**	**88**	79-122	
80-62-6	Methyl Methacrylate	25.8	**25.3**	**98**	79-128	
142-82-5	n-Heptane	26.8	**22.1**	**82**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**20.6**	**82**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**21.9**	**80**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**23.2**	**83**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**22.9**	**87**	80-117	
108-88-3	Toluene	26.5	**24.0**	**91**	76-116	
591-78-6	2-Hexanone	26.3	**22.4**	**85**	69-131	
124-48-1	Dibromochloromethane	27.0	**28.4**	**105**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.1**	**99**	79-122	
111-65-9	n-Octane	26.0	**24.0**	**92**	78-122	
127-18-4	Tetrachloroethene	26.0	**27.8**	**107**	77-118	
108-90-7	Chlorobenzene	26.5	**25.9**	**98**	78-117	

Verified By: RC Date: 6/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**24.2**	**92**	79-116	
179601-23-1	m,p-Xylenes	62.5	**57.7**	**92**	80-117	
75-25-2	Bromoform	31.3	**37.9**	**121**	77-128	
100-42-5	Styrene	26.3	**26.4**	**100**	80-124	
95-47-6	o-Xylene	29.8	**27.8**	**93**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**27.2**	**91**	79-120	
98-82-8	Cumene	27.0	**26.7**	**99**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.6**	**94**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.8**	**101**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.7**	**99**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**27.1**	**106**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.7**	**99**	80-122	
100-44-7	Benzyl Chloride	25.8	**25.0**	**97**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**27.0**	**106**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**28.3**	**108**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.6**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**30.0**	**104**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**27.1**	**105**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**29.7**	**115**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**31.1**	**120**	75-138	
91-20-3	Naphthalene	26.3	**28.4**	**108**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**32.4**	**123**	72-128	

Verified By: RC Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	**19.1**	**75**	69-117	
74-87-3	Chloromethane	24.5	**19.9**	**81**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**23.3**	**90**	58-133	
75-01-4	Vinyl Chloride	24.8	**18.1**	**73**	61-127	
74-83-9	Bromomethane	25.0	**20.4**	**82**	67-124	
75-00-3	Chloroethane	25.0	**20.3**	**81**	69-123	
64-17-5	Ethanol	23.8	**20.0**	**84**	56-137	
67-64-1	Acetone	26.8	**19.4**	**72**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**22.0**	**84**	71-120	
107-13-1	Acrylonitrile	25.5	**21.9**	**86**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.4**	**84**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**19.1**	**74**	35-141	
75-09-2	Methylene Chloride	27.8	**20.4**	**73**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**19.7**	**74**	75-127	**L**
76-13-1	Trichlorotrifluoroethane	27.8	**26.6**	**96**	63-129	
75-15-0	Carbon Disulfide	25.0	**19.5**	**78**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**20.7**	**78**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**19.8**	**74**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**20.3**	**76**	72-119	
108-05-4	Vinyl Acetate	25.3	**20.5**	**81**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**21.5**	**80**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**20.9**	**77**	74-117	
108-20-3	Diisopropyl Ether	26.3	**21.5**	**82**	70-131	
67-66-3	Chloroform	29.8	**24.5**	**82**	72-113	

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Verified By: _____ Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	**21.6**	**83**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**19.9**	**76**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**22.4**	**84**	78-114	
71-43-2	Benzene	27.0	**20.7**	**77**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**25.4**	**98**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**20.7**	**80**	81-118	**L**
78-87-5	1,2-Dichloropropane	26.5	**21.3**	**80**	78-117	
75-27-4	Bromodichloromethane	27.8	**23.5**	**85**	77-120	
79-01-6	Trichloroethene	27.3	**25.5**	**93**	80-116	
123-91-1	1,4-Dioxane	27.5	**23.7**	**86**	79-122	
80-62-6	Methyl Methacrylate	25.8	**25.0**	**97**	79-128	
142-82-5	n-Heptane	26.8	**21.5**	**80**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**20.3**	**81**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**21.4**	**78**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**22.8**	**81**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**22.5**	**86**	80-117	
108-88-3	Toluene	26.5	**24.5**	**92**	76-116	
591-78-6	2-Hexanone	26.3	**22.1**	**84**	69-131	
124-48-1	Dibromochloromethane	27.0	**28.9**	**107**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.8**	**102**	79-122	
111-65-9	n-Octane	26.0	**24.3**	**93**	78-122	
127-18-4	Tetrachloroethene	26.0	**28.8**	**111**	77-118	
108-90-7	Chlorobenzene	26.5	**26.5**	**100**	78-117	

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**24.6**	**94**	79-116	
179601-23-1	m,p-Xylenes	62.5	**58.6**	**94**	80-117	
75-25-2	Bromoform	31.3	**38.7**	**124**	77-128	
100-42-5	Styrene	26.3	**26.7**	**102**	80-124	
95-47-6	o-Xylene	29.8	**28.0**	**94**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**27.2**	**91**	79-120	
98-82-8	Cumene	27.0	**27.0**	**100**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.8**	**94**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.9**	**102**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**26.1**	**100**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**27.5**	**108**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.8**	**99**	80-122	
100-44-7	Benzyl Chloride	25.8	**25.1**	**97**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**27.5**	**108**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**28.8**	**110**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.8**	**100**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**30.3**	**105**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**27.3**	**106**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**30.0**	**116**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**31.1**	**120**	75-138	
91-20-3	Naphthalene	26.3	**28.2**	**107**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**32.8**	**125**	72-128	

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080524-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Rusty Bravo Date Analyzed: 5/24/08
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
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	**20.2**	**79**	69-117	
74-87-3	Chloromethane	24.5	**18.3**	**75**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**21.4**	**82**	58-133	
75-01-4	Vinyl Chloride	24.8	**21.1**	**85**	61-127	
74-83-9	Bromomethane	25.0	**21.8**	**87**	67-124	
75-00-3	Chloroethane	25.0	**21.7**	**87**	69-123	
64-17-5	Ethanol	23.8	**18.3**	**77**	56-137	
67-64-1	Acetone	26.8	**22.9**	**85**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**21.9**	**83**	71-120	
107-13-1	Acrylonitrile	25.5	**23.0**	**90**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.8**	**86**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**23.2**	**90**	35-141	
75-09-2	Methylene Chloride	27.8	**22.6**	**81**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**29.0**	**108**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**23.2**	**83**	63-129	
75-15-0	Carbon Disulfide	25.0	**20.7**	**83**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**23.6**	**89**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**23.2**	**87**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**23.1**	**86**	72-119	
108-05-4	Vinyl Acetate	25.3	**29.2**	**115**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**23.7**	**88**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**23.1**	**86**	74-117	
108-20-3	Diisopropyl Ether	26.3	**22.8**	**87**	70-131	
67-66-3	Chloroform	29.8	**26.2**	**88**	72-113	

Verified By: Rv Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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	**22.9**	**88**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**22.2**	**84**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**23.0**	**86**	78-114	
71-43-2	Benzene	27.0	**23.2**	**86**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**23.6**	**91**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**23.3**	**90**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**23.2**	**88**	78-117	
75-27-4	Bromodichloromethane	27.8	**25.4**	**91**	77-120	
79-01-6	Trichloroethene	27.3	**21.8**	**80**	80-116	
123-91-1	1,4-Dioxane	27.5	**23.9**	**87**	79-122	
80-62-6	Methyl Methacrylate	25.8	**23.7**	**92**	79-128	
142-82-5	n-Heptane	26.8	**23.8**	**89**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**23.5**	**94**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**22.7**	**83**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**27.2**	**97**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**23.3**	**89**	80-117	
108-88-3	Toluene	26.5	**23.2**	**88**	76-116	
591-78-6	2-Hexanone	26.3	**21.6**	**82**	69-131	
124-48-1	Dibromochloromethane	27.0	**25.4**	**94**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**23.8**	**90**	79-122	
111-65-9	n-Octane	26.0	**23.7**	**91**	78-122	
127-18-4	Tetrachloroethene	26.0	**22.6**	**87**	77-118	
108-90-7	Chlorobenzene	26.5	**23.1**	**87**	78-117	

Verified By: _____ Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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	**23.4**	**89**	79-116	
179601-23-1	m,p-Xylenes	62.5	**55.8**	**89**	80-117	
75-25-2	Bromoform	31.3	**31.8**	**102**	77-128	
100-42-5	Styrene	26.3	**23.7**	**90**	80-124	
95-47-6	o-Xylene	29.8	**26.5**	**89**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.5**	**99**	79-120	
98-82-8	Cumene	27.0	**24.4**	**90**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.3**	**92**	82-120	
622-96-8	4-Ethyltoluene	26.5	**24.2**	**91**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**23.2**	**89**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**20.9**	**82**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**24.0**	**92**	80-122	
100-44-7	Benzyl Chloride	25.8	**29.0**	**112**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**23.5**	**92**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**24.1**	**92**	81-119	
135-98-8	sec-Butylbenzene	26.8	**24.7**	**92**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**28.0**	**97**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**23.6**	**91**	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	**24.2**	**93**	75-138	
91-20-3	Naphthalene	26.3	**23.6**	**90**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**24.1**	**92**	72-128	
98-06-6	tert-Butylbenzene	26.3	**24.4**	**93**	70-130	
104-51-8	n-Butylbenzene	26.8	**25.1**	**94**	70-130	

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	2.24	0.453	-	-	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	3.84	2.04	3.76	2.00	3.8	**2**	25	**J**
Acetone	14.1	5.95	13.1	5.51	13.6	**7**	25	**J, B**
Trichlorofluoromethane	ND	ND	ND	ND	-	-	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	2.40	0.691	ND	ND	-	-	25	**J**
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	10.6	3.42	10.9	3.51	10.75	**3**	25	**J**
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	4,700	962	4,670	956	4685	**0.6**	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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	14.3	2.63	15.0	2.74	14.65	**5**	25	
Benzene	2.04	0.639	ND	ND	-	-	25	**J**
Carbon Tetrachloride	7.56	1.20	7.40	1.18	7.48	**2**	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	5.08	0.759	4.32	0.645	4.7	**16**	25	
Trichloroethene	137	25.5	137	25.4	137	**0**	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	23.5	6.23	23.8	6.33	23.65	**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	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	2,260	334	2,240	331	2250	**0.9**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

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

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
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	ND	ND	ND	ND	-	-	25	
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	2.48	0.413	2.48	0.413	2.48	**0**	25	**J**
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	457	42.8	461	43.2	459	**0.9**	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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442

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: 05210801.D
Analyst: Wida Ang Date Analyzed: 5/21/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 07:03
Test Notes:

		IS1 (BCM)			IS2 (DFB)			IS3 (CBZ)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	24 Hour Standard	280453		9.20		1159366		11.35		455765		16.45	
	Upper Limit	392634		9.53		1623112		11.68		638071		16.78	
	Lower Limit	168272		8.87		695620		11.02		273459		16.12	
	Client Sample ID												
01	Method Blank	265459		9.19		1108808		11.34		433704		16.45	
02	Lab Control Sample	271810		9.23		1132838		11.37		456218		16.45	
03	SG70B-05 (Dilution)	278945		9.19		1159225		11.34		454144		16.45	
04	SG71B-05 (Dilution)	261196		9.20		1111432		11.34		436653		16.45	
05													
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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442

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: 05220801.D
Analyst: Wida Ang Date Analyzed: 5/22/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 06:45
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	290078	9.20	1224526	11.36	472512	16.45
	Upper Limit	406109	9.53	1714336	11.69	661517	16.78
	Lower Limit	174047	8.87	734716	11.03	283507	16.12
	Client Sample ID						
01	Method Blank	291099	9.19	1200703	11.34	463958	16.44
02	Lab Control Sample	292129	9.22	1211752	11.36	471175	16.45
03	SG36B-20 (Dilution)	294338	9.19	1253056	11.34	484420	16.45
04	SG89B-05 (Dilution)	295772	9.19	1263184	11.34	484027	16.44
05	SG72B-05 (Dilution)	291546	9.20	1227593	11.35	479960	16.45
06	SG84B-05 (Dilution)	250673	9.20	1092477	11.34	424798	16.45
07	SG95B-05 (Dilution)	261506	9.20	1145449	11.35	456223	16.45
08	SG75B-05 (Dilution)	275771	9.19	1188439	11.34	466565	16.45
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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
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 5975Binert/6890N/MS13 Lab File ID: 05240801.D
Analyst: Rusty Bravo Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 06:59
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	448388	12.59	1911390	15.52	908326	21.35
	Upper Limit	627743	12.92	2675946	15.85	1271656	21.68
	Lower Limit	269033	12.26	1146834	15.19	544996	21.02
	Client Sample ID						
01	Method Blank	443208	12.58	1904075	15.51	885417	21.35
02	Lab Control Sample	459665	12.59	1955735	15.52	929197	21.35
03	SG70B-05	463631	12.58	1946379	15.51	904087	21.35
04	SG71B-05	444409	12.58	1882384	15.51	881998	21.35
05	SG36B-20	441193	12.58	1908057	15.51	909547	21.35
06	SG89B-05	432946	12.58	1838073	15.51	864159	21.35
07	SG35B-05	408720	12.58	1810368	15.51	852322	21.35
08	SG35B-05 (Lab Duplicate)	413362	12.58	1798004	15.51	843834	21.35
09	SG73B-05	405189	12.58	1793020	15.51	871340	21.35
10	SG39B-05	483630	12.58	2073700	15.51	990343	21.35
11	SG37B-20	502403	12.58	2138148	15.51	1047220	21.35
12	SG44B-05	528796	12.58	2294376	15.51	1068545	21.35
13	SG88B-05	542028	12.58	2318224	15.51	1105781	21.35
14	SG72B-05	585660	12.58	2449883	15.51	1168878	21.35
15	SG65B-05	604273	12.58	2567002	15.51	1175375	21.35
16	SG65B-05D	564336	12.58	2463090	15.51	1128628	21.35
17	SG84B-05	579106	12.58	2412558	15.51	1107058	21.35
18	SG85B-05	561245	12.58	2384740	15.51	1127495	21.35
19	SG94B-05	564641	12.58	2380094	15.51	1098161	21.35
20	SG95B-05	575733	12.58	2414649	15.51	1124167	21.35
21	SG75B-05	558421	12.58	2357400	15.51	1070709	21.35

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

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

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

Verified By: RC Date: 6/2/08

RESULTS OF HELIUM ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR International**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**
CAS Project ID: P0801442

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: 5/14 - 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG73B-05	P0801442-001	1.00	1.62	**160**	41	
SG39B-05	P0801442-002	1.00	1.63	ND	41	
SG37B-20	P0801442-003	1.00	1.58	ND	40	
SG36B-20	P0801442-004	1.00	1.56	**110**	39	
SG44B-05	P0801442-005	1.00	1.62	ND	41	
SG88B-05	P0801442-006	1.00	1.67	ND	42	
SG72B-05	P0801442-007	1.00	1.58	ND	40	
SG70B-05	P0801442-008	1.00	1.60	ND	40	
SG71B-05	P0801442-009	1.00	1.61	ND	40	
SG65B-05	P0801442-010	1.00	1.47	ND	37	
SG65B-05D	P0801442-011	1.00	1.46	ND	37	
SG84B-05	P0801442-012	1.00	1.53	ND	38	
SG85B-05	P0801442-013	1.00	1.56	ND	39	
SG35B-05	P0801442-014	1.00	1.60	ND	40	
SG94B-05	P0801442-015	1.00	1.86	**1,700**	47	
SG95B-05	P0801442-016	1.00	1.56	ND	39	
SG89B-05	P0801442-017	1.00	1.58	ND	40	
SG75B-05	P0801442-018	1.00	1.64	ND	41	
Method Blank	P080521-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: Re Date: 5/23/08

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG73B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801442
CAS Sample ID: P0801442-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00057

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

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**	1.6	0.16	**0.41**	0.33	0.033	
74-87-3	**Chloromethane**	**0.29**	0.32	0.16	**0.14**	0.16	0.078	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.13	0.063	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.083	0.042	
75-00-3	**Chloroethane**	**0.62**	0.32	0.16	**0.23**	0.12	0.061	
64-17-5	**Ethanol**	**4.0**	16	0.16	**2.1**	8.6	0.086	**J**
67-64-1	**Acetone**	**23**	16	0.24	**9.7**	6.8	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**1.6**	0.32	0.16	**0.28**	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.75	0.10	
75-35-4	**1,1-Dichloroethene**	**55**	0.32	0.16	**14**	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.90**	1.6	0.24	**0.30**	0.53	0.079	**J**
75-09-2	**Methylene Chloride**	**0.48**	1.6	0.16	**0.14**	0.47	0.047	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.43**	0.32	0.18	**0.057**	0.042	0.024	
75-15-0	**Carbon Disulfide**	**1.1**	1.6	0.39	**0.35**	0.52	0.12	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.082	0.041	
75-34-3	**1,1-Dichloroethane**	**0.28**	0.32	0.16	**0.068**	0.080	0.040	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.090	0.045	
108-05-4	**Vinyl Acetate**	**20**	16	0.52	**5.8**	4.6	0.15	
78-93-3	**2-Butanone (MEK)**	**11**	1.6	0.16	**3.8**	0.55	0.055	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	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**	**270**	0.32	0.19	**55**	0.066	0.039	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG73B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00057

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

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	0.32	0.16	ND	0.080	0.040	
71-55-6	**1,1,1-Trichloroethane**	**0.24**	0.32	0.16	**0.044**	0.059	0.030	**J**
71-43-2	**Benzene**	**3.8**	0.32	0.16	**1.2**	0.10	0.051	
56-23-5	**Carbon Tetrachloride**	**3.7**	0.32	0.16	**0.59**	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**	**0.45**	0.32	0.16	**0.097**	0.070	0.035	
75-27-4	**Bromodichloromethane**	**3.6**	0.32	0.16	**0.53**	0.048	0.024	
79-01-6	**Trichloroethene**	**2.7**	0.32	0.16	**0.51**	0.060	0.030	
123-91-1	**1,4-Dioxane**	**0.31**	1.6	0.20	**0.086**	0.45	0.055	**J**
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.059	
142-82-5	n-Heptane	ND	1.6	0.21	ND	0.40	0.051	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**0.56**	1.6	0.18	**0.14**	0.40	0.044	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.36	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.059	0.030	
108-88-3	**Toluene**	**1.6**	1.6	0.16	**0.43**	0.43	0.043	**J**
591-78-6	**2-Hexanone**	**2.1**	1.6	0.25	**0.50**	0.40	0.060	
124-48-1	**Dibromochloromethane**	**0.44**	0.32	0.22	**0.051**	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.042	0.023	
111-65-9	**n-Octane**	**0.35**	1.6	0.16	**0.076**	0.35	0.035	**J**
127-18-4	**Tetrachloroethene**	**73**	0.32	0.16	**11**	0.048	0.024	
108-90-7	**Chlorobenzene**	**11**	0.32	0.17	**2.4**	0.070	0.036	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG73B-05** CAS Sample ID: P0801442-001
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00057

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.34**	1.6	0.20	**0.079**	0.37	0.046	**J**
179601-23-1	**m,p-Xylenes**	**1.6**	1.6	0.42	**0.38**	0.37	0.097	
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.6	0.25	ND	0.38	0.058	
95-47-6	**o-Xylene**	**2.0**	1.6	0.20	**0.47**	0.37	0.047	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.21	ND	0.047	0.030	
98-82-8	**Cumene**	**0.29**	1.6	0.18	**0.058**	0.33	0.037	**J**
103-65-1	n-Propylbenzene	ND	1.6	0.17	ND	0.33	0.034	
622-96-8	**4-Ethyltoluene**	**0.23**	1.6	0.18	**0.046**	0.33	0.038	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.26**	1.6	0.19	**0.053**	0.33	0.040	**J**
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.049	
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	1.6	0.22	**0.22**	0.33	0.045	**J**
100-44-7	Benzyl Chloride	ND	0.32	0.28	ND	0.063	0.054	
541-73-1	**1,3-Dichlorobenzene**	**2.7**	0.32	0.20	**0.44**	0.054	0.033	
106-46-7	**1,4-Dichlorobenzene**	**94**	0.32	0.18	**16**	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)**	**0.29**	1.6	0.21	**0.053**	0.30	0.038	**J**
95-50-1	**1,2-Dichlorobenzene**	**4.5**	0.32	0.21	**0.75**	0.054	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.25	ND	0.17	0.025	
120-82-1	**1,2,4-Trichlorobenzene**	**0.94**	0.32	0.25	**0.13**	0.044	0.033	
91-20-3	**Naphthalene**	**3.3**	0.65	0.24	**0.64**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**19**	0.32	0.29	**1.8**	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**0.45**	0.65	0.16	**0.081**	0.12	0.030	**J**

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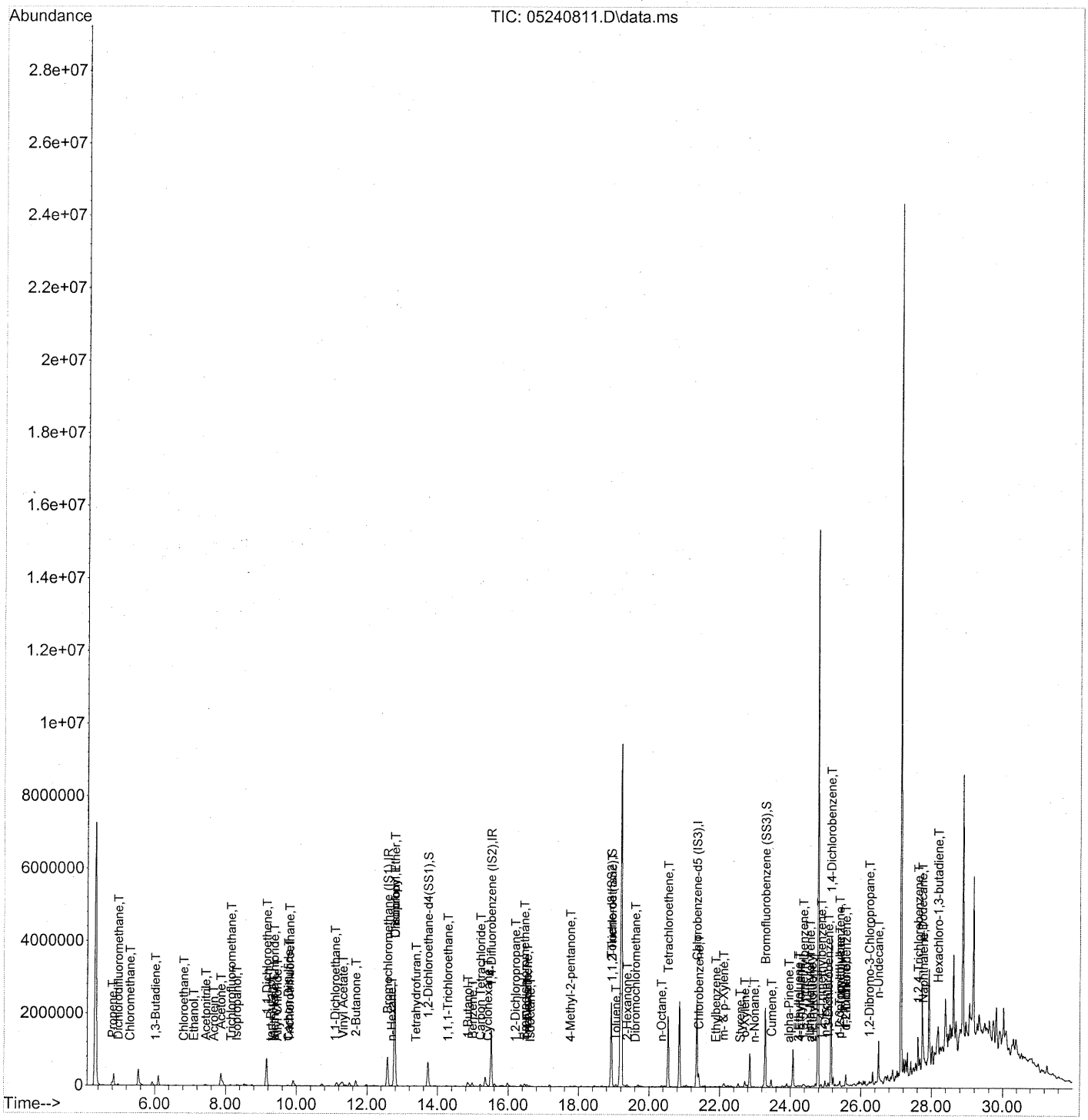
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: RC Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	405189	25.000 ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1793020	25.000 ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	871340	25.000 ng		0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	13.73	65	683941	24.361 ng		0.00
Spiked Amount 25.000			Recovery =	97.44%		
57) Toluene-d8 (SS2)	18.93	98	1900592	24.287 ng		0.00
Spiked Amount 25.000			Recovery =	97.16%		
73) Bromofluorobenzene (SS3)	23.29	174	796814	25.040 ng		0.00
Spiked Amount 25.000			Recovery =	100.16%		
Target Compounds						Qvalue
2) Propene	4.80	42	42379	1.324 ng		94
3) Dichlorodifluoromethane	4.96	85	37071	0.628 ng		99
4) Chloromethane	5.30	50	3486	0.091 ng		80
5) Freon 114	5.54	135	530	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.02	54	1728	0.061 ng	#	82
8) Bromomethane	6.49	94	1045	N.D.		
9) Chloroethane	6.82	64	3456	0.190 ng		94
10) Ethanol	7.10	45	26164m	1.228 ng		
11) Acetonitrile	7.44	41	47721	0.775 ng		98
12) Acrolein	7.67	56	8770	0.576 ng		89
13) Acetone	7.87	58	155128m	7.112 ng		
14) Trichlorofluoromethane	8.15	101	24393	0.482 ng		99
15) Isopropanol	8.32	45	42771	0.615 ng		86
16) Acrylonitrile	8.65	53	1123	N.D.		
17) 1,1-Dichloroethene	9.16	96	381024	17.116 ng	#	81
18) tert-Butanol	9.27	59	16370m	0.277 ng		
19) Methylene Chloride	9.37	84	3572	0.147 ng	#	81
20) Allyl Chloride	9.45	41	4484	~~0.138 ng~~ UR	#	44
21) Trichlorotrifluoroethane	9.80	151	3090	0.134 ng	#	1
22) Carbon Disulfide	9.77	76	30729	0.332 ng		98
23) trans-1,2-Dichloroethene	10.80	61	57	N.D.		
24) 1,1-Dichloroethane	11.10	63	3615	0.085 ng		91
25) Methyl tert-Butyl Ether	11.21	73	1707	N.D.		
26) Vinyl Acetate	11.31	86	25345m	6.287 ng		
27) 2-Butanone	11.68	72	55332	3.476 ng		94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	316849	~~16.243 ng~~ UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	8278	0.191 ng		88

R13052208.M Tue May 27 18:59:53 2008 5/27/08 Page: 1

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	3044900	82.410 ng		100
34) Tetrahydrofuran	13.38	72	1694	0.111 ng	#	36
35) Ethyl tert-Butyl Ether	13.73	87	59	N.D. ✓		
36) 1,2-Dichloroethane	13.90	62	358	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	3025	0.074 ng	#	66
39) Isopropyl Acetate	14.97	61	461	N.D.		
40) 1-Butanol	14.85	56	110585	4.487 ng		92
41) Benzene	14.99	78	109284	1.164 ng		100
42) Carbon Tetrachloride	15.21	117	41606	1.151 ng		99
43) Cyclohexane	15.41	84	11473	0.314 ng	#	1
44) tert-Amyl Methyl Ether	15.87	73	1719	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	3487	0.139 ng	#	75
46) Bromodichloromethane	16.46	83	34917	1.100 ng		100
47) Trichloroethene	16.54	130	24394	0.847 ng		98
48) 1,4-Dioxane	16.53	88	1694	0.096 ng		95
49) Isooctane	16.62	57	12527	0.116 ng	#	55
50) Methyl Methacrylate	16.70	100	130	N.D. ✓		
51) n-Heptane	16.97	71	1081	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	4300	0.173 ng		82
54) trans-1,3-Dichloropropene	18.44	75	72	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	165955	~~7.153 ng~~ NR	#	9
58) Toluene	19.06	91	52851	0.497 ng		98
59) 2-Hexanone	19.37	43	46506	0.634 ng		78
60) Dibromochloromethane	19.61	129	3879	0.135 ng		97
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.20	43	3621	N.D.		
63) n-Octane	20.35	57	2565	0.109 ng		86
64) Tetrachloroethene	20.54	166	711013	22.589 ng		99
65) Chlorobenzene	21.41	112	240806	3.377 ng		99
66) Ethylbenzene	21.89	91	12987	0.106 ng		93
67) m- & p-Xylene	22.10	91	41374	0.507 ng		96
68) Bromoform	22.20	173	1026	N.D. ✓		
69) Styrene	22.58	104	4126	~~0.057 ng~~		94
70) o-Xylene	22.71	91	55079	0.625 ng		95
71) n-Nonane	22.98	43	10423	0.167 ng		93
72) 1,1,2,2-Tetrachloroethane	22.71	83	1298	N.D. ✓		
74) Cumene	23.47	105	10282	0.088 ng		97
75) alpha-Pinene	23.96	93	4507	0.074 ng	#	46
76) n-Propylbenzene	24.10	91	5333	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	19604	0.157 ng		94
78) 4-Ethyltoluene	24.28	105	8098	0.070 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	8361	0.080 ng		93

WA 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	4095	~~0.072 ng~~		86
81) 2-Ethyltoluene	24.61	105	17709	0.140 ng		99
82) 1,2,4-Trimethylbenzene	24.88	105	35403	0.331 ng		88
83) n-Decane	24.98	57	61688	1.047 ng		79
84) Benzyl Chloride	25.04	91	1611	N.D. ✓		
85) 1,3-Dichlorobenzene	25.08	146	55000	0.822 ng		99
86) 1,4-Dichlorobenzene	25.15	146	1878475	28.954 ng		99
87) sec-Butylbenzene	25.21	105	2879	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	10147	0.090 ng	#	73
89) 1,2,3-Trimethylbenzene	25.40	105	31171	0.298 ng		86
90) 1,2-Dichlorobenzene	25.57	146	87801	1.383 ng		99
91) d-Limonene	25.57	68	35284	0.827 ng		85
92) 1,2-Dibromo-3-Chloropr...	26.24	157	2246	~~0.114~~ ng	NR#	1
93) n-Undecane	26.50	57	410416	6.658 ng		81
94) 1,2,4-Trichlorobenzene	27.62	180	13466	0.290 ng		86
95) Naphthalene	27.77	128	145086	1.028 ng		98
96) n-Dodecane	27.74	57	749763	12.231 ng		87
97) Hexachloro-1,3-butadiene	28.19	225	186186	6.016 ng		98

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

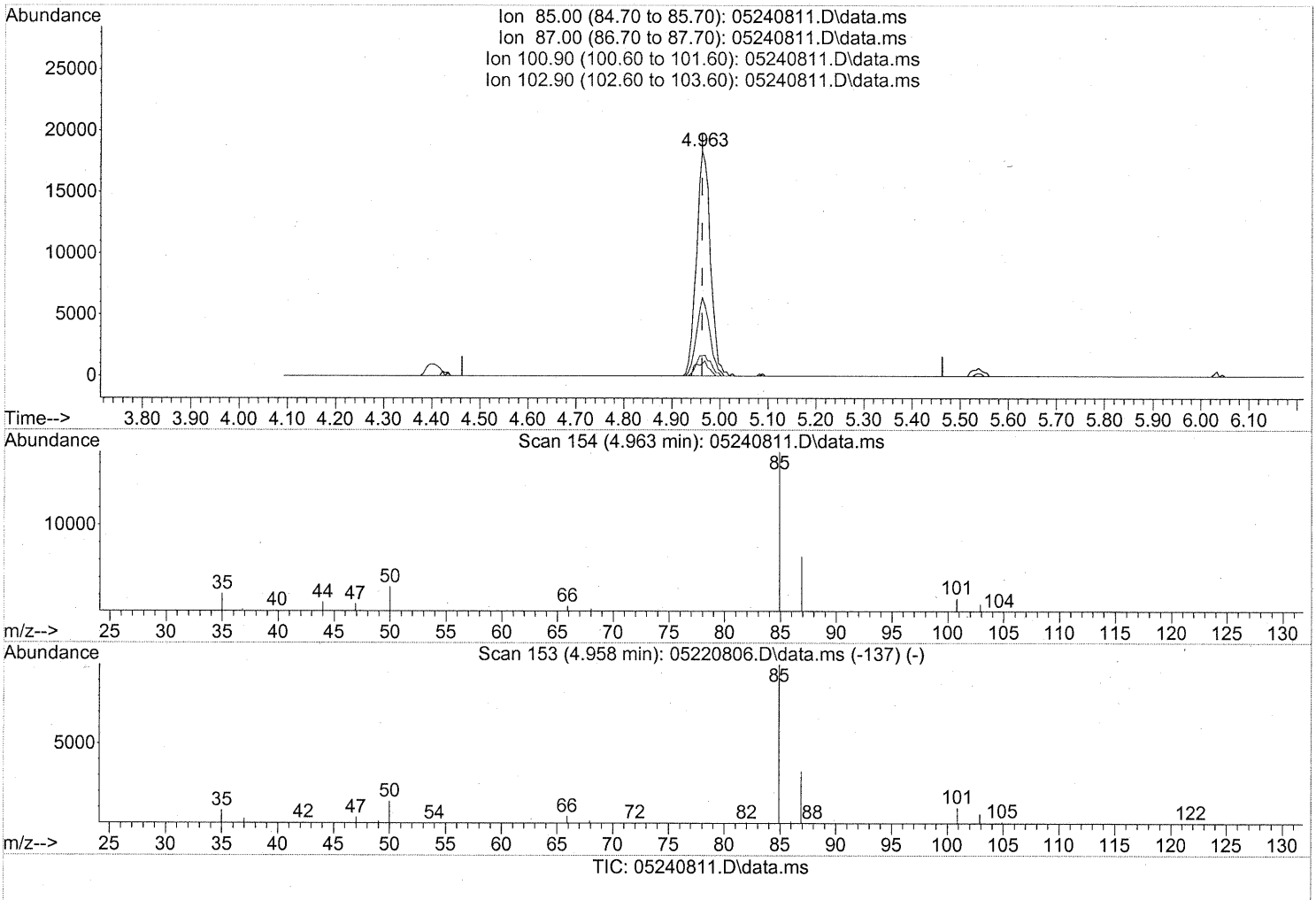
97

JCM 5/27/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 0.63ng

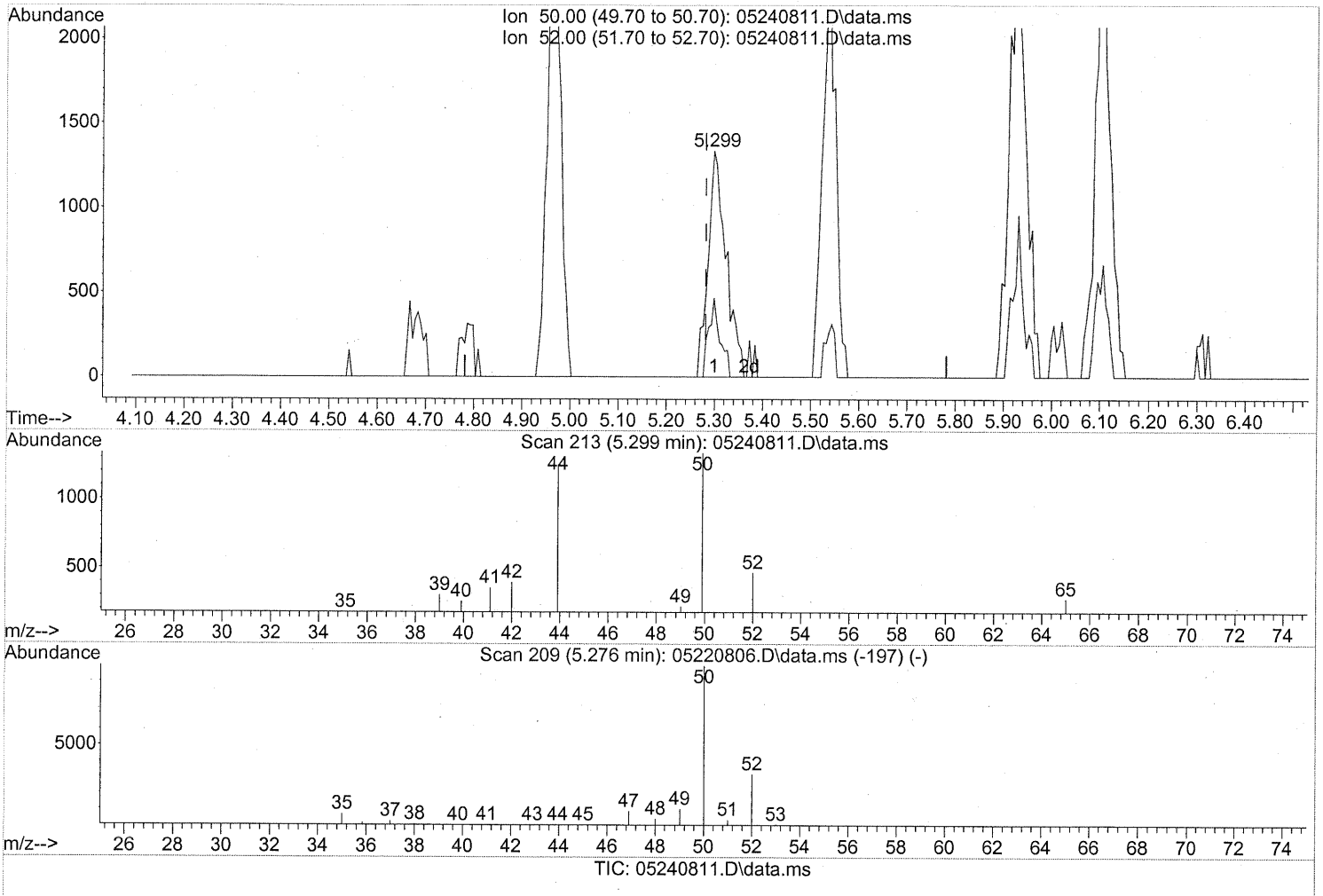
response 37071

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	33.01
100.90	9.30	9.48
102.90	6.00	5.78

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(4) Chloromethane (T)

5.299min (+0.017) 0.09ng

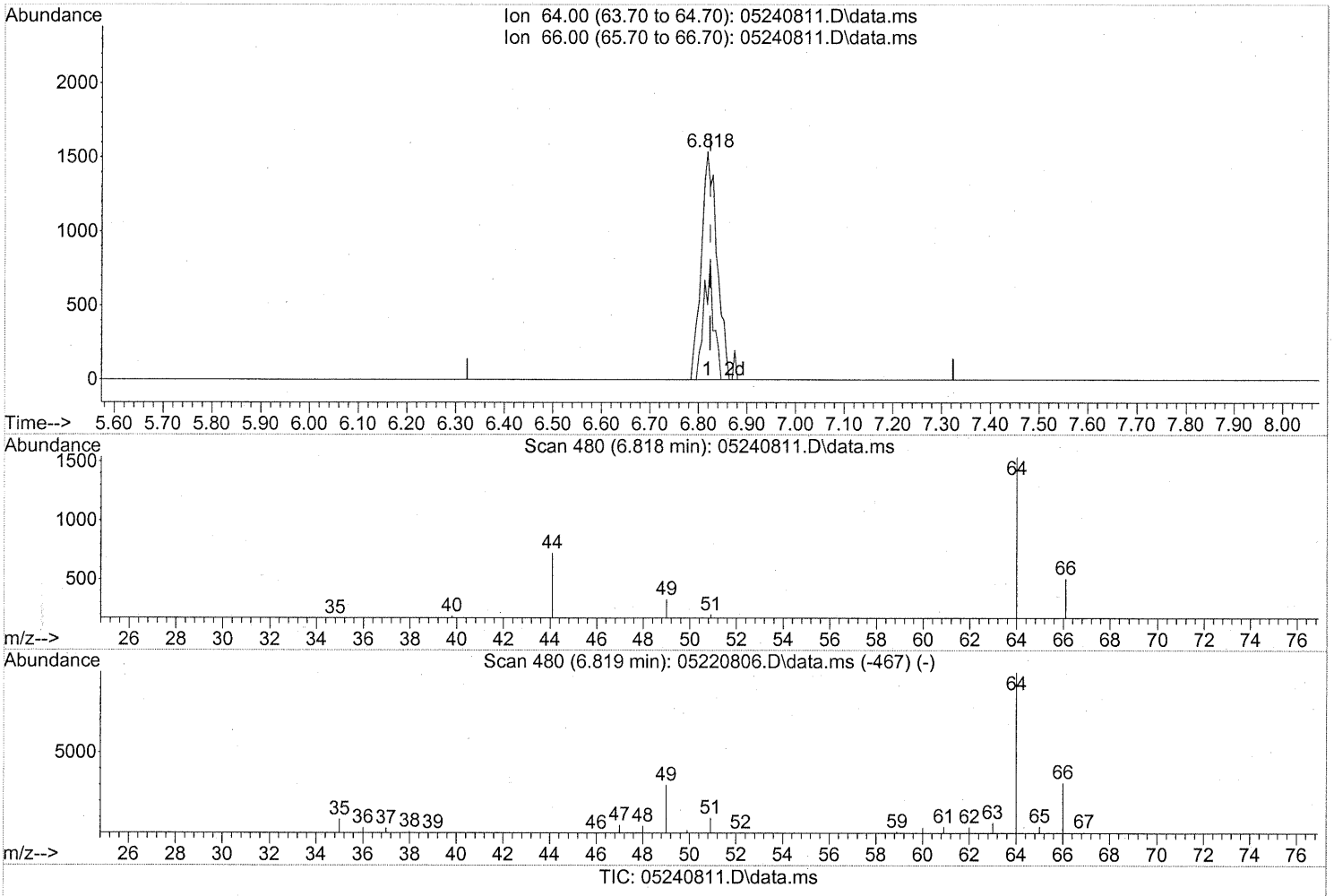
response 3486

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	22.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(9) Chloroethane (T)

6.818min (-0.006) 0.19ng

response 3456

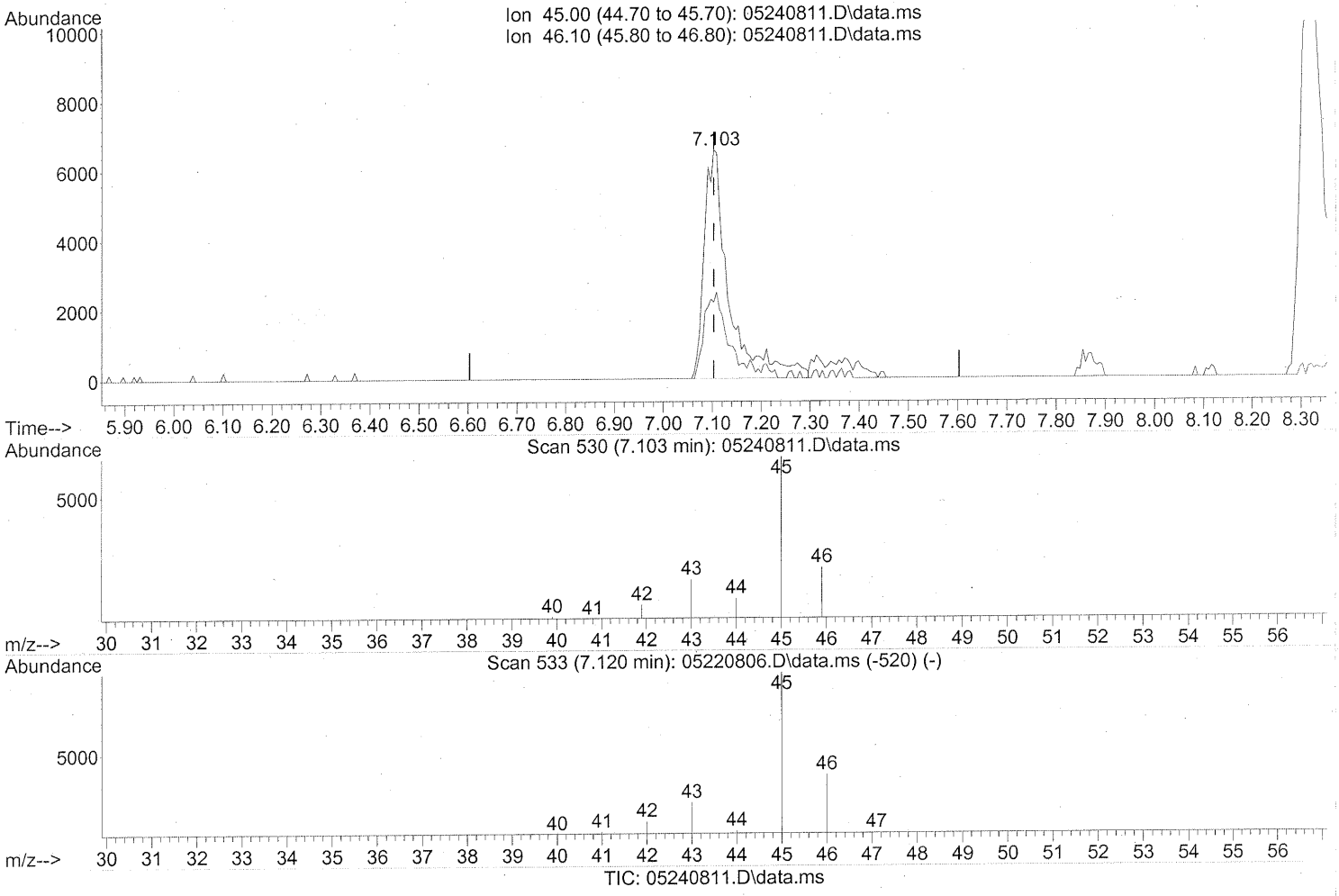
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	32.67
0.00	0.00	0.00
0.00	0.00	0.00

100

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA 4
Sample : P0801422-001 (500ml) JM 5/26/08
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 17:53:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 1.07ng

response 22887

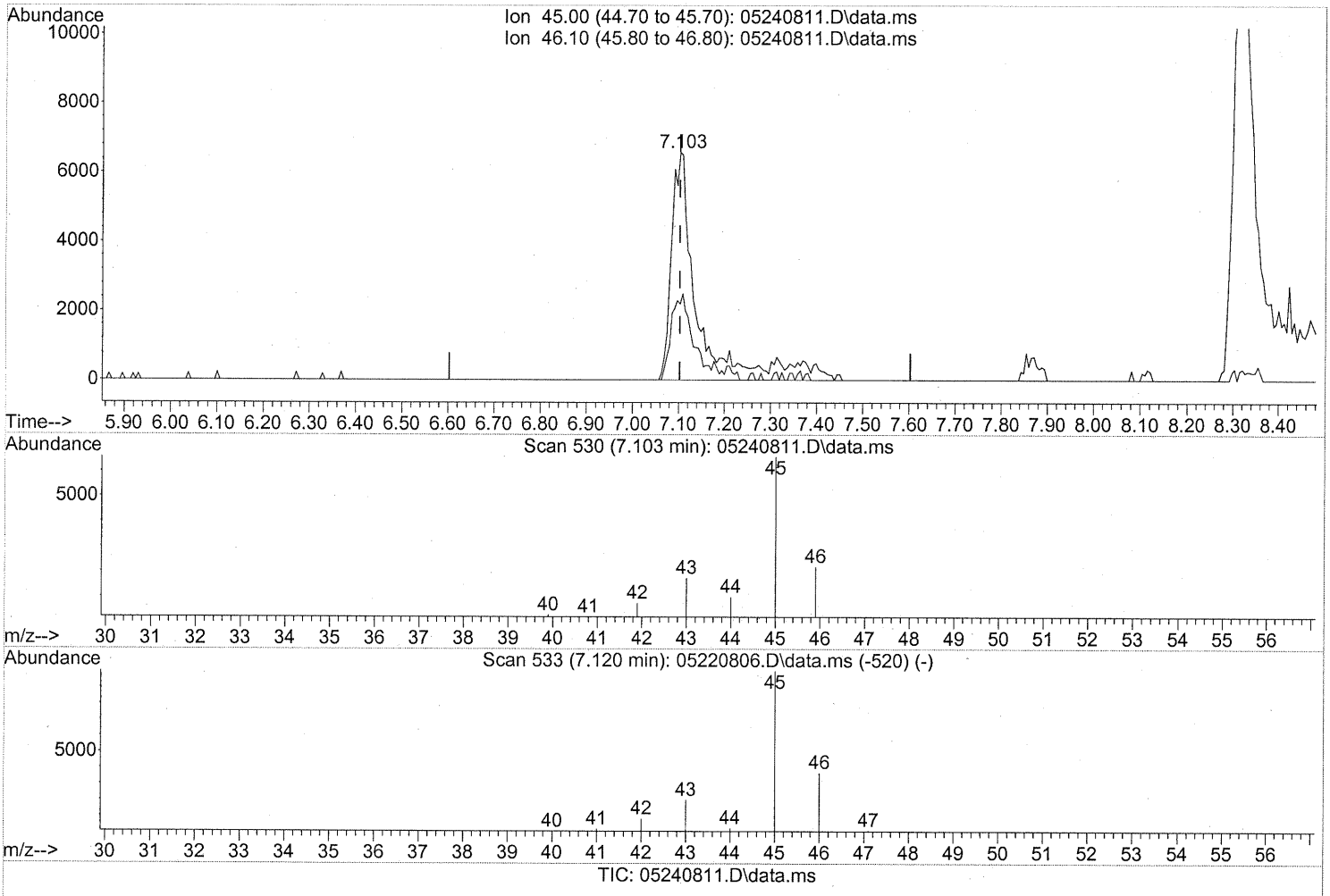
tailing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 1.23ng m

response 26164

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.12
0.00	0.00	0.00
0.00	0.00	0.00

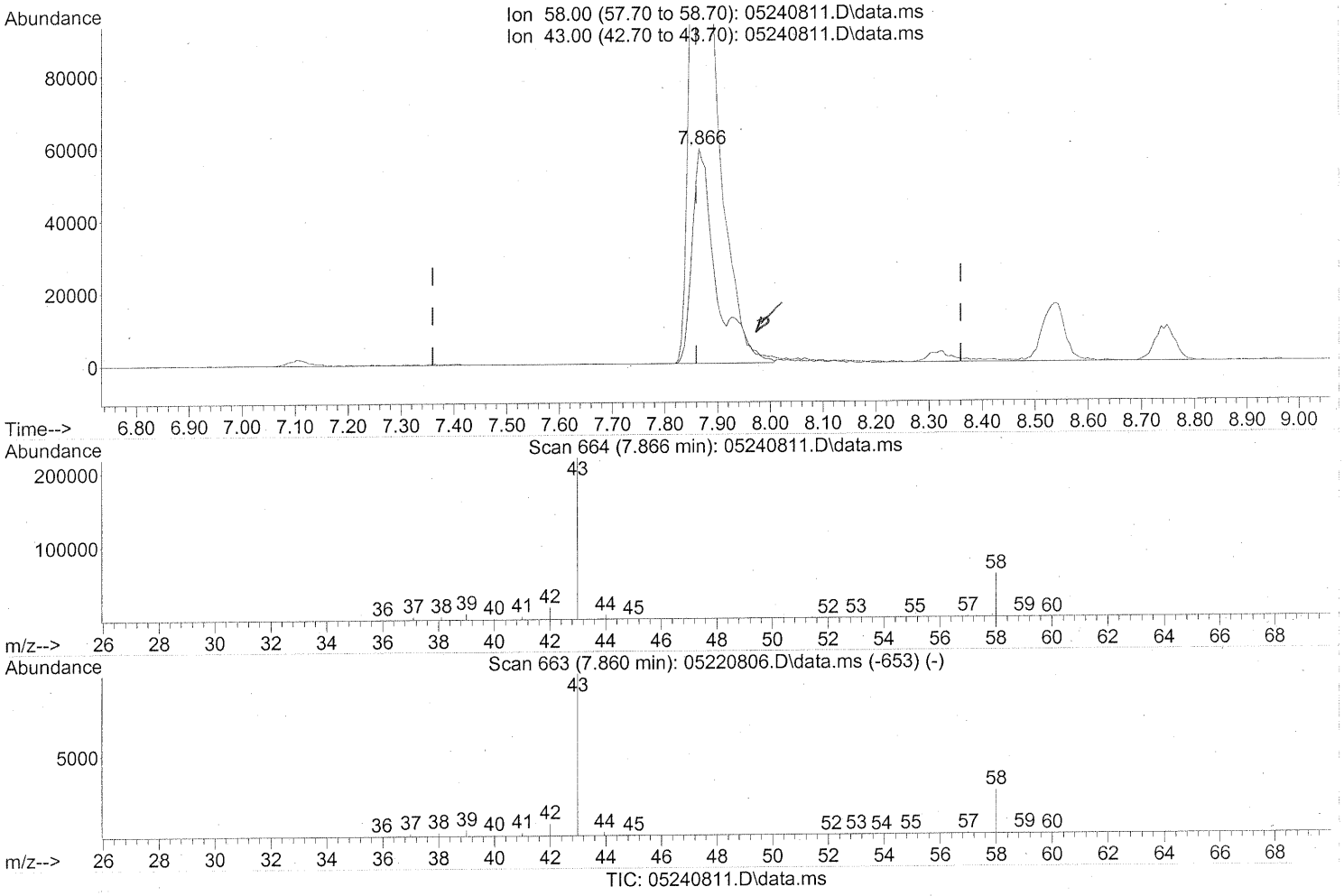
added tailing
MM 5/29/08

102

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA 4
Sample : P0801422-001 (500ml) RM 5/26/08
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 17:53:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.866min (+0.006) 8.52ng

response 185924

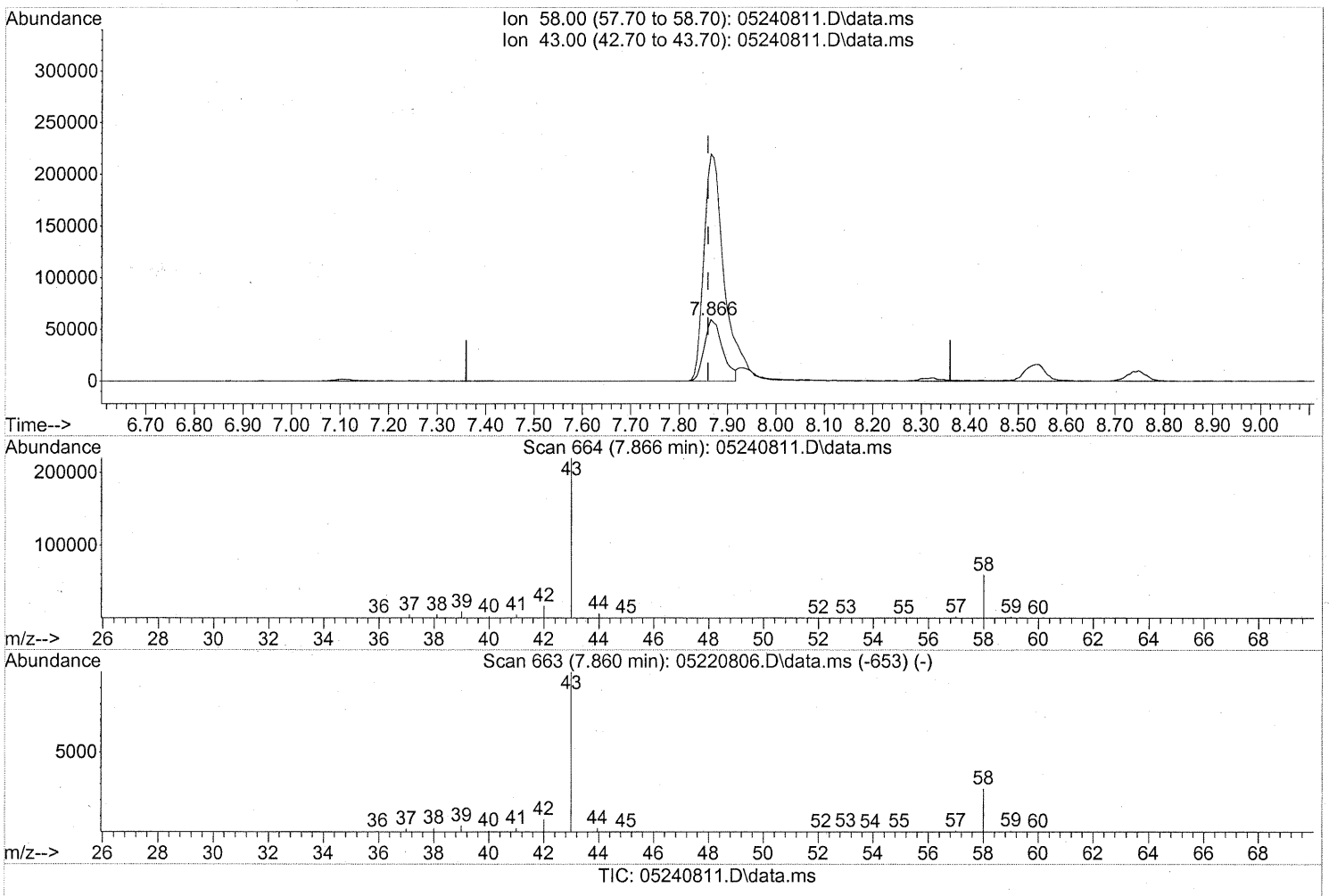
interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	351.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(13) Acetone (T)

7.866min (+0.006) 7.11ng m

response 155128

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	421.46#
0.00	0.00	0.00
0.00	0.00	0.00

INT. 15% shoulder

JSH 5/29/08

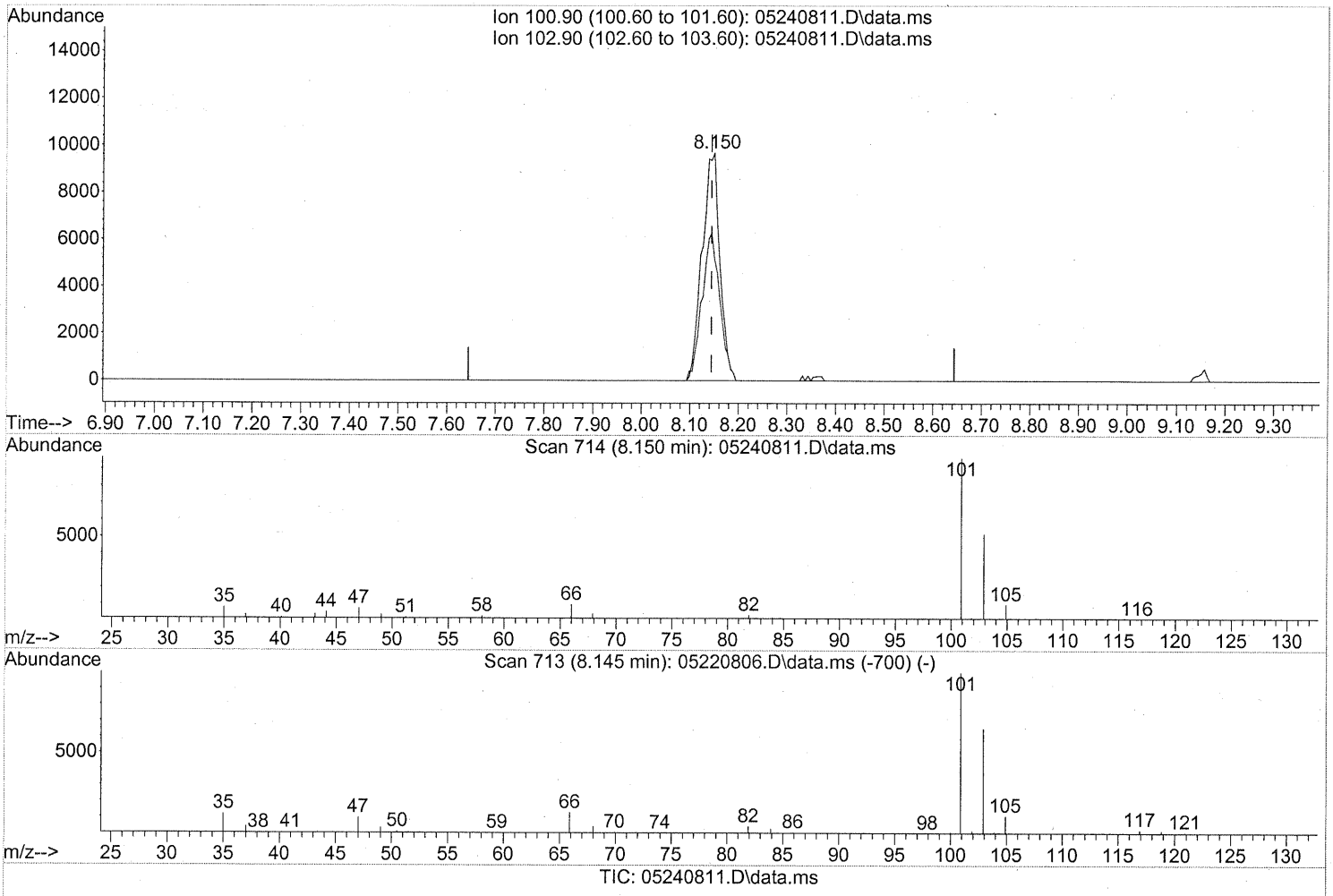
WH 5/30/08

104

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.48ng

response 24393

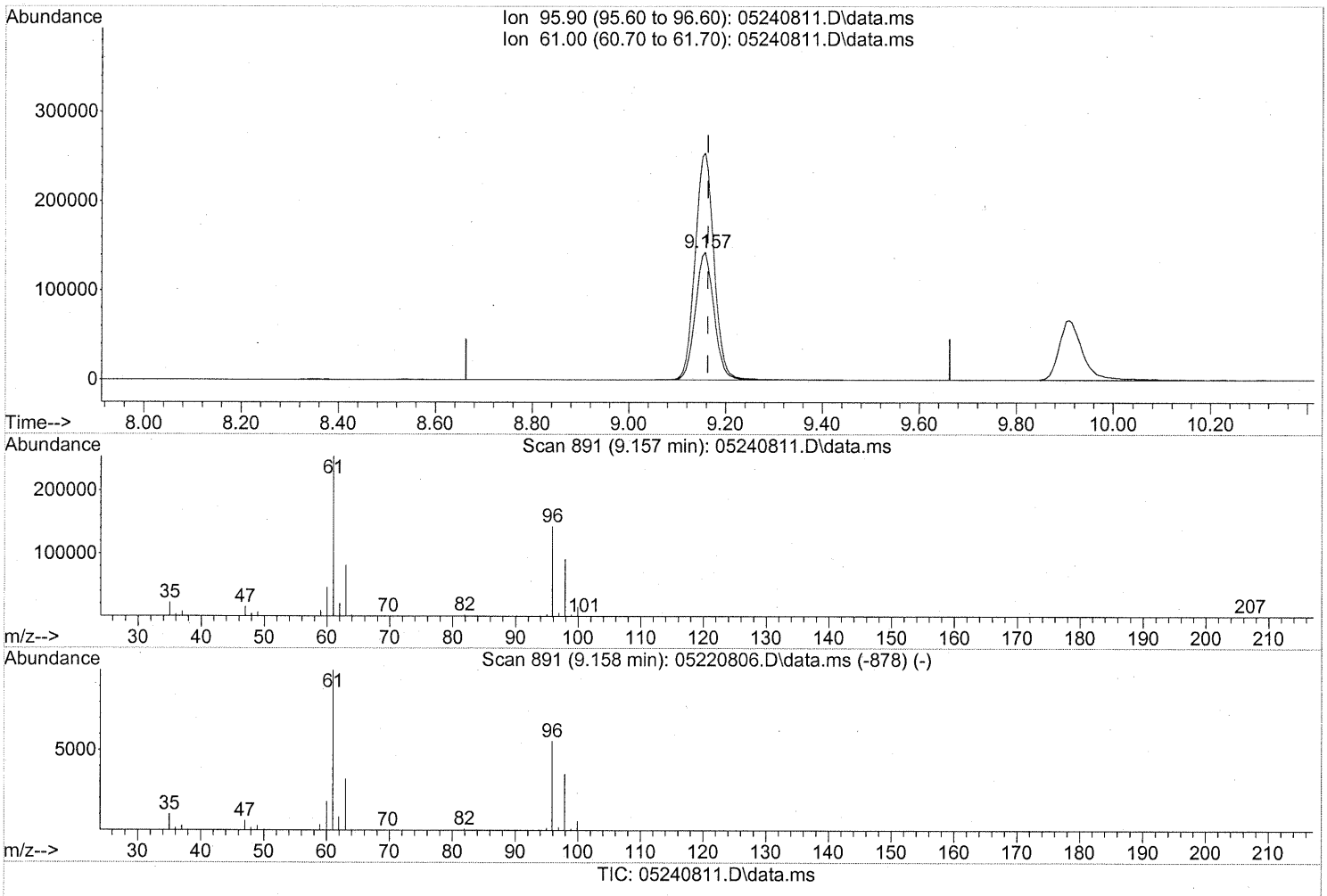
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.59
0.00	0.00	0.00
0.00	0.00	0.00

105

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(17) 1,1-Dichloroethene (T)

9.157min (-0.006) 17.12ng

response 381024

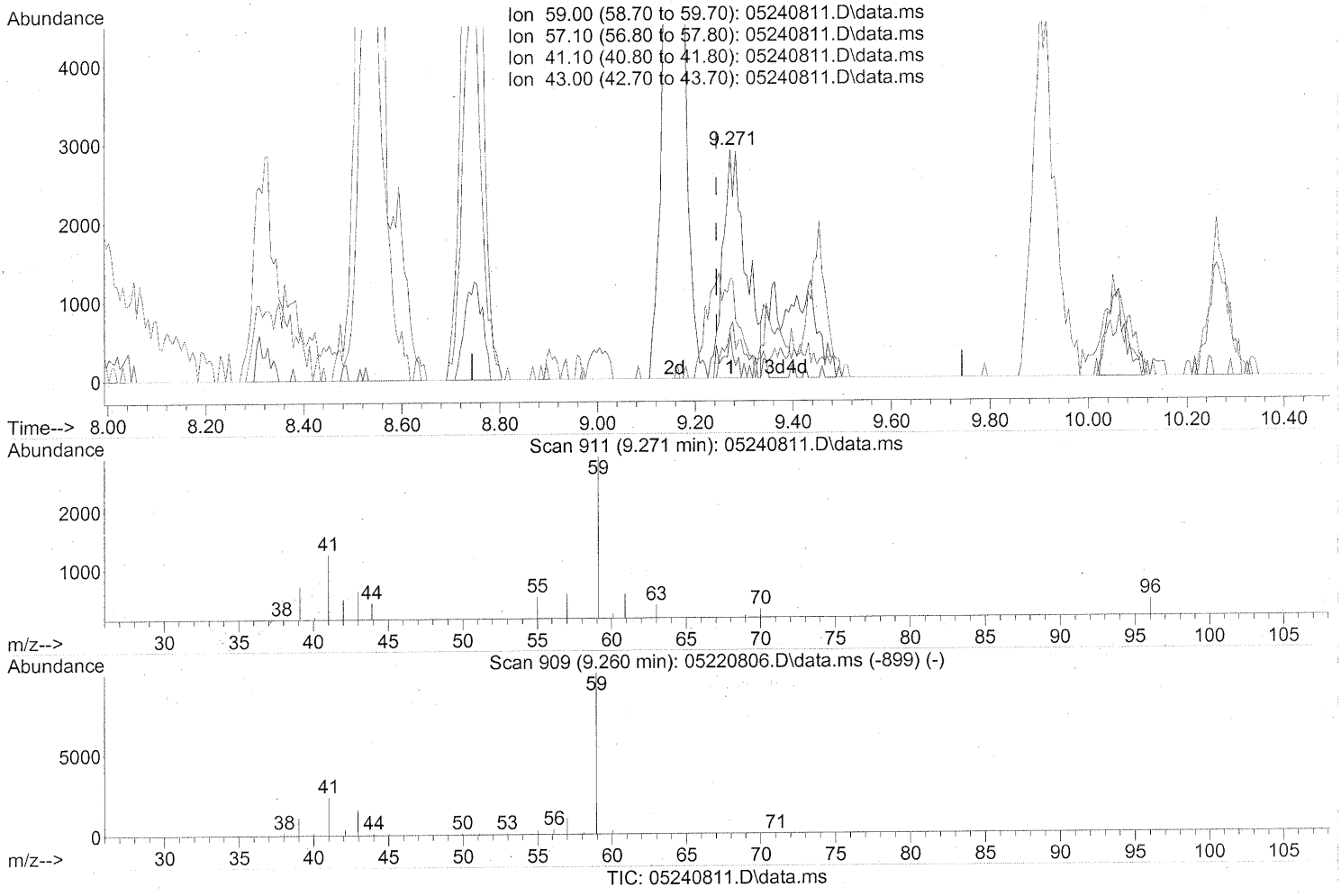
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	180.19#
0.00	0.00	0.00
0.00	0.00	0.00

106

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801422-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 17:53:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.16ng

response 9305

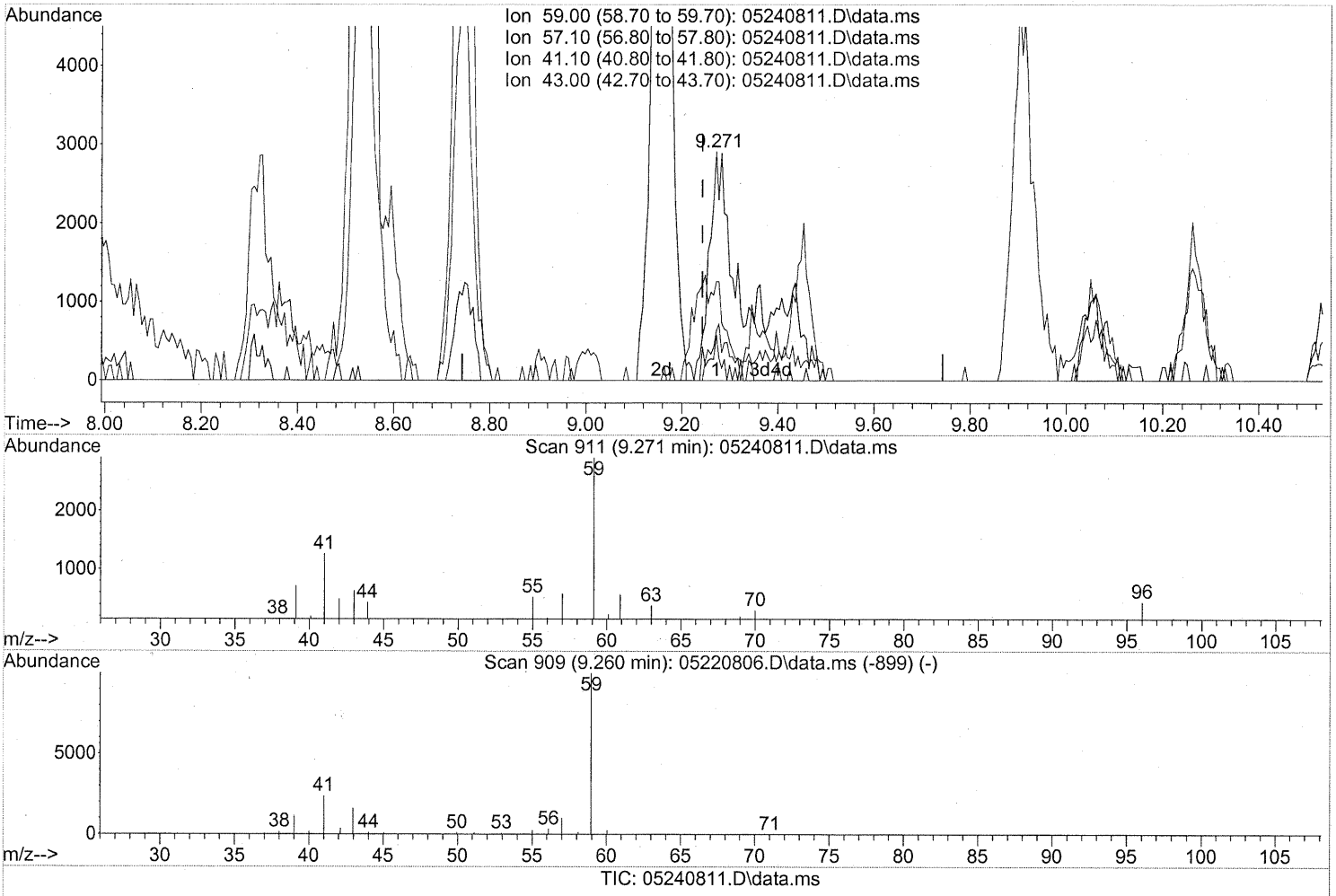
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.42
41.10	20.10	0.00#
43.00	12.30	20.73

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(18) tert-Butanol (T)

9.271min (+0.028) 0.28ng m

response 16370

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	4.22
41.10	20.10	0.00#
43.00	12.30	11.78

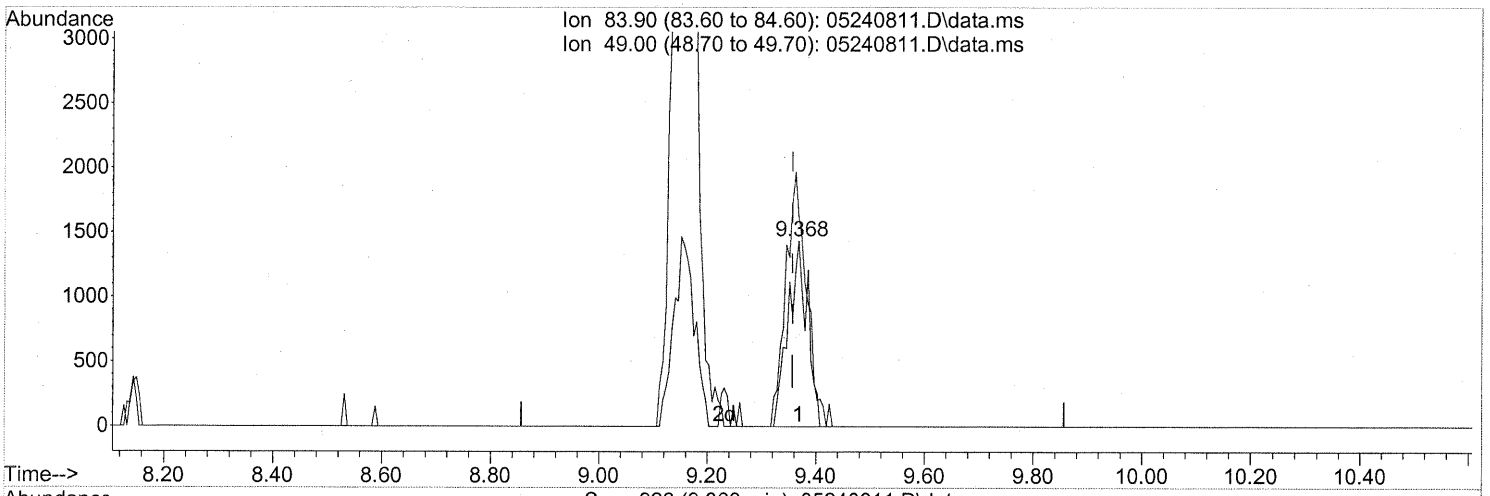
Int. whole peaks
WA 5/29/08

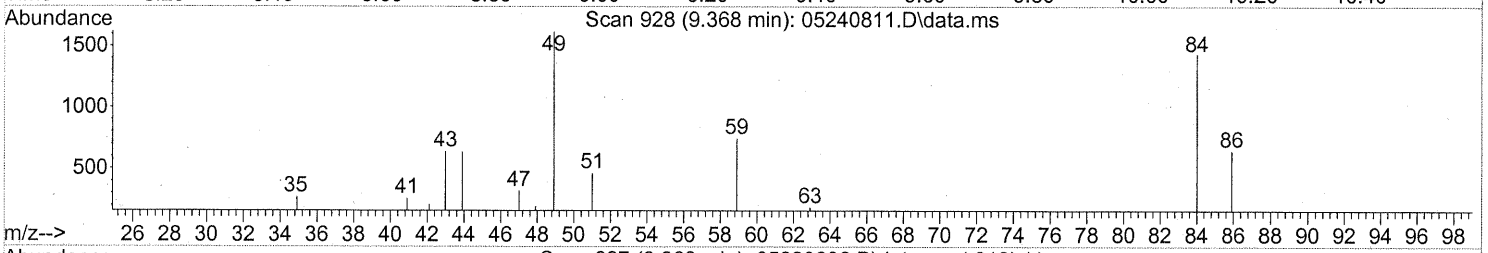
WA Standard

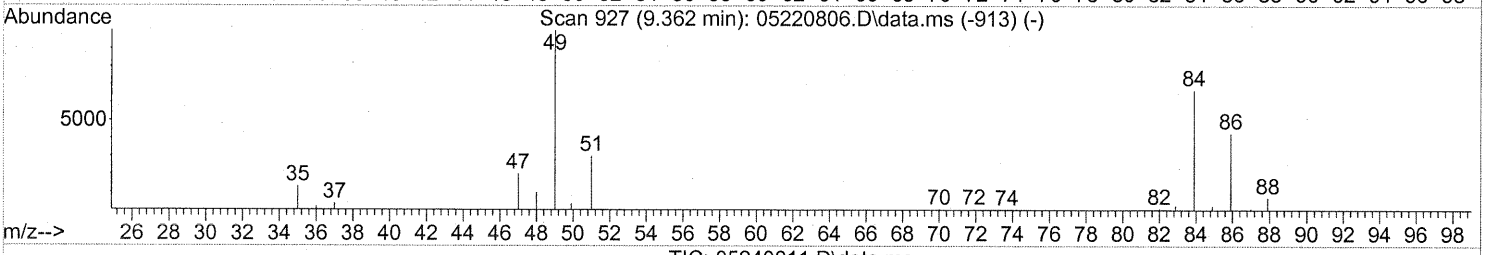
108

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240811.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.15ng

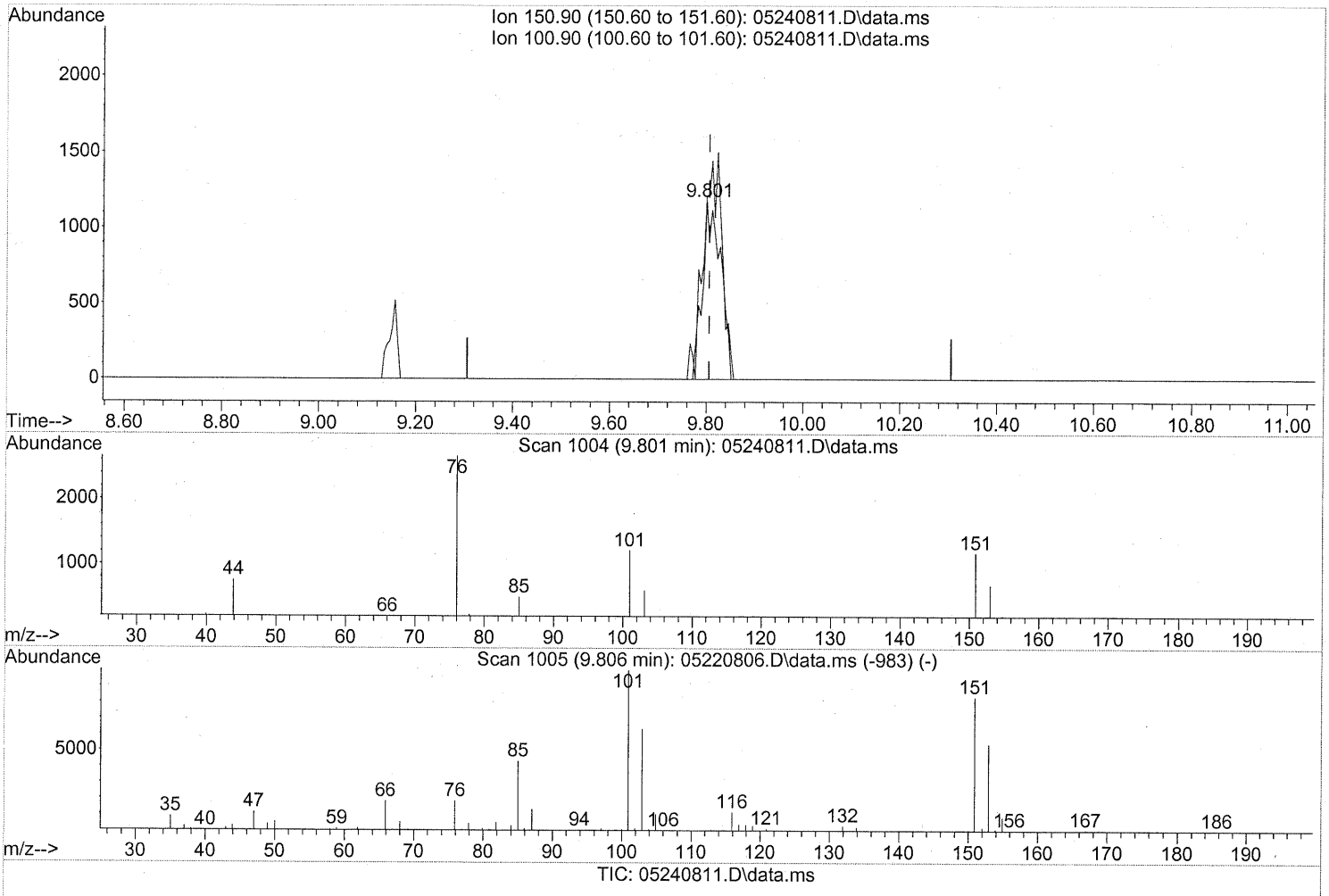
response 3572

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	146.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.13ng

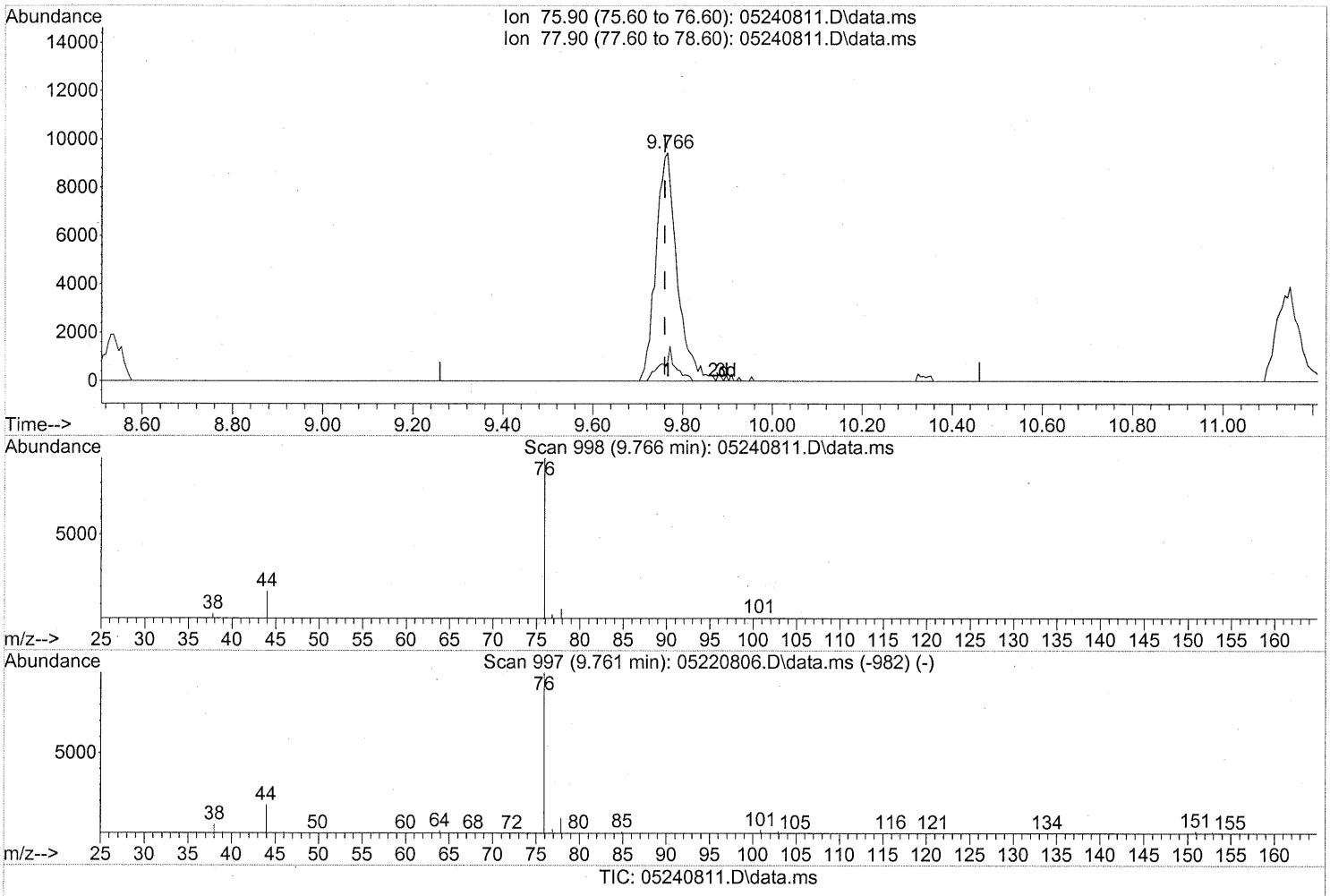
response 3090

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(22) Carbon Disulfide (T)

9.766min (+0.006) 0.33ng

response 30729

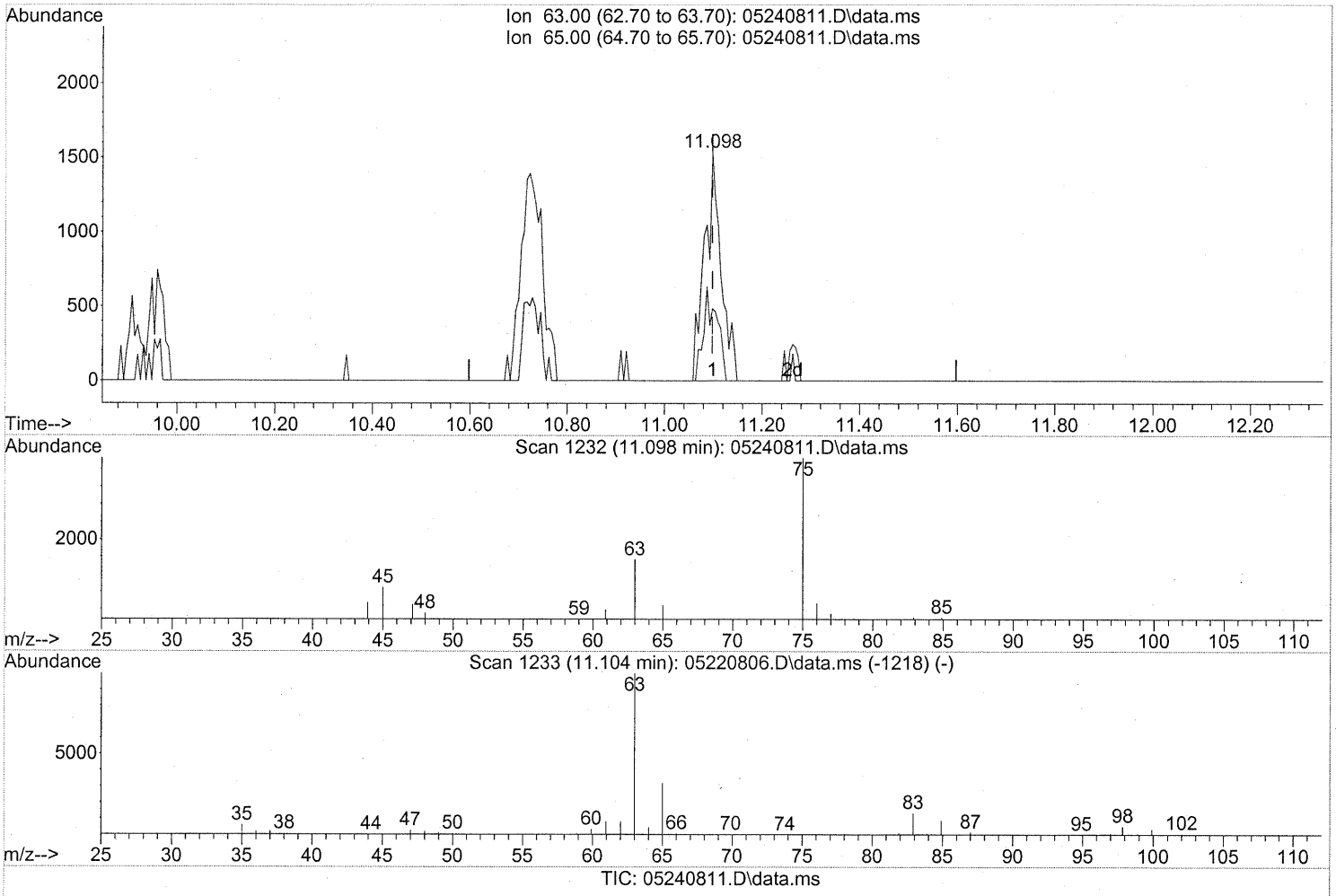
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.56
0.00	0.00	0.00
0.00	0.00	0.00

111

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(24) 1,1-Dichloroethane (T)

11.098min (-0.000) 0.09ng

response 3615

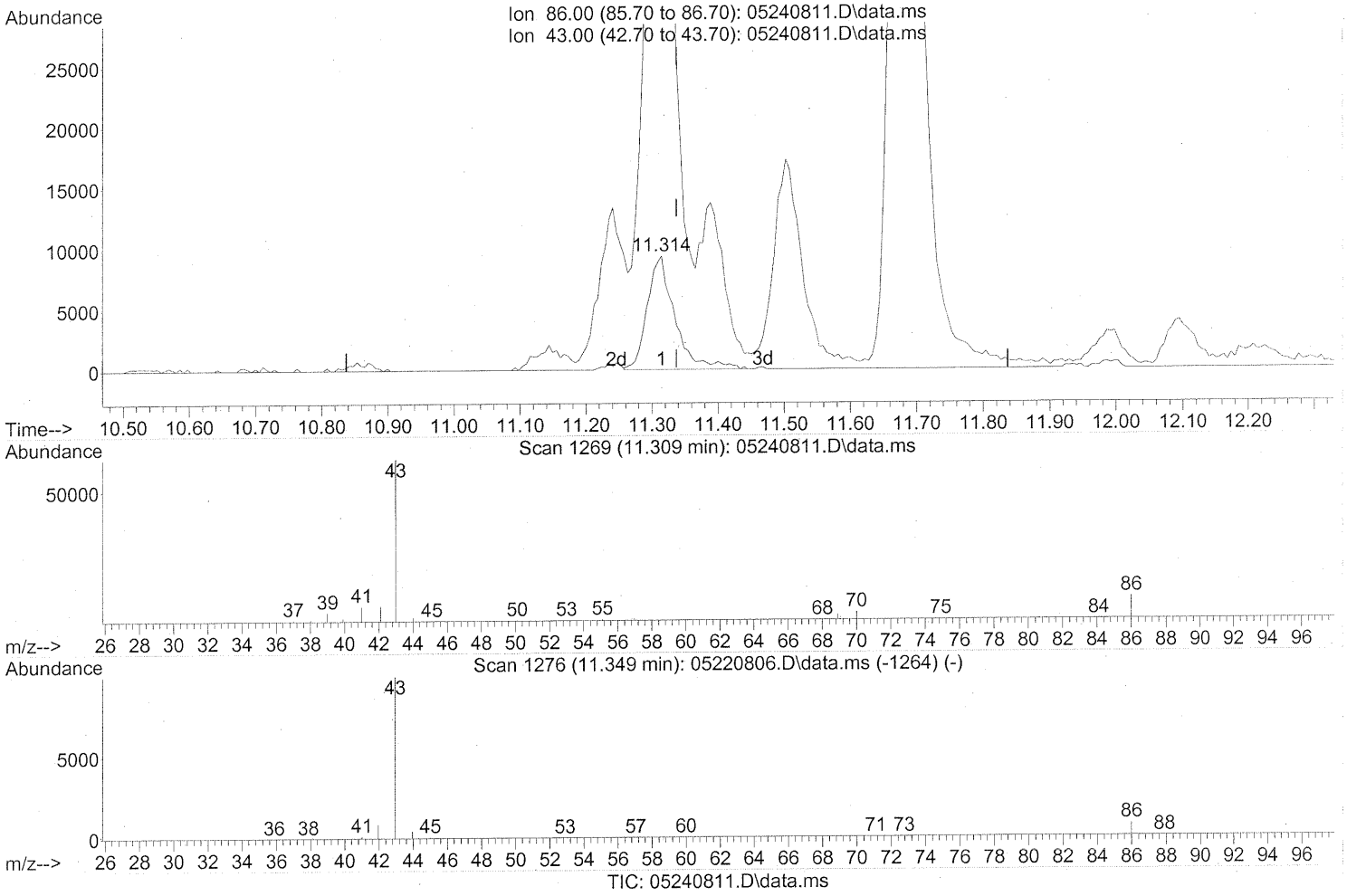
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	33.80
0.00	0.00	0.00
0.00	0.00	0.00

112

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801422-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 17:53:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.314min (-0.023) 6.74ng

response 27160

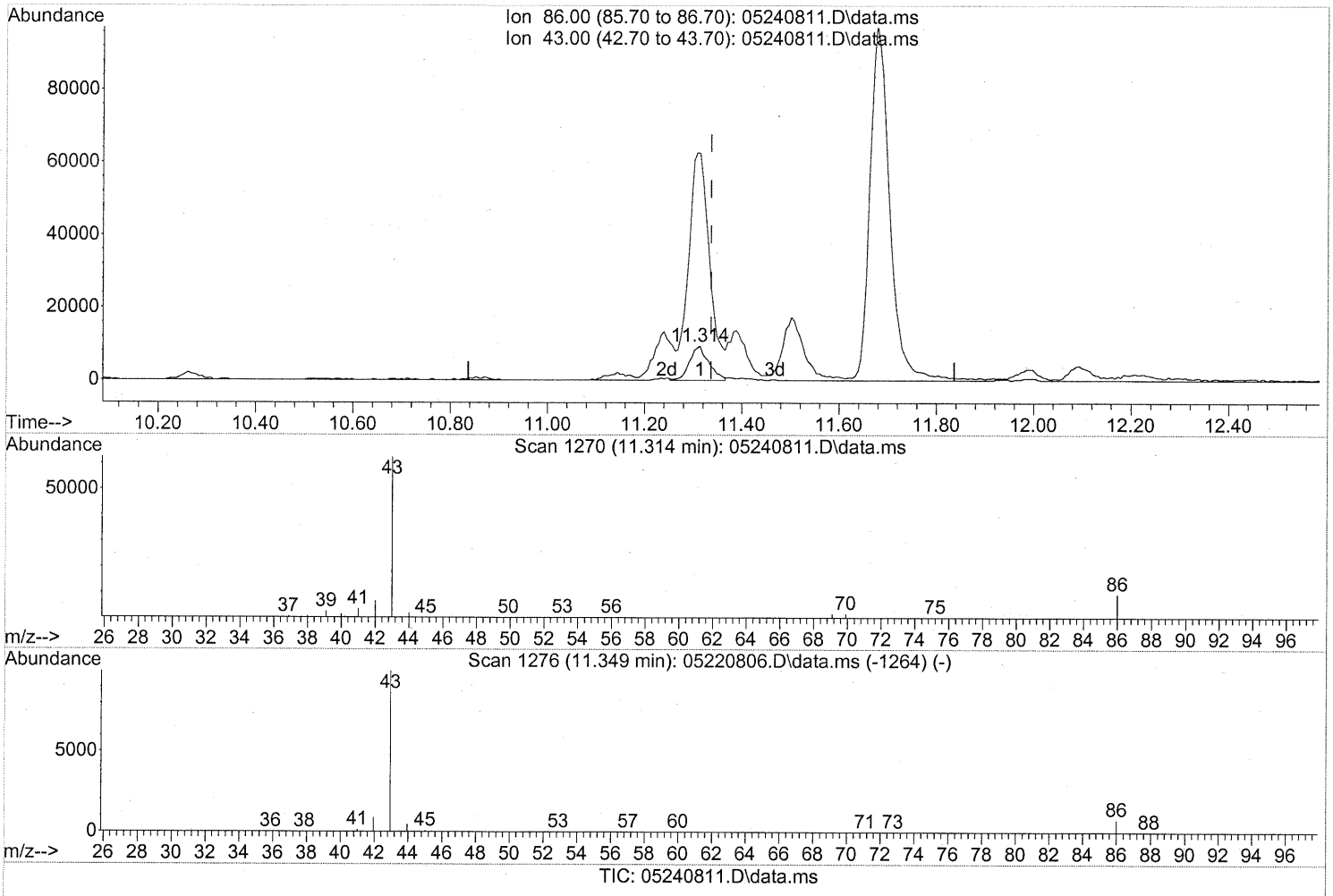
excess tailing

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	693.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 6.29ng m

response 25345

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	743.07#
0.00	0.00	0.00
0.00	0.00	0.00

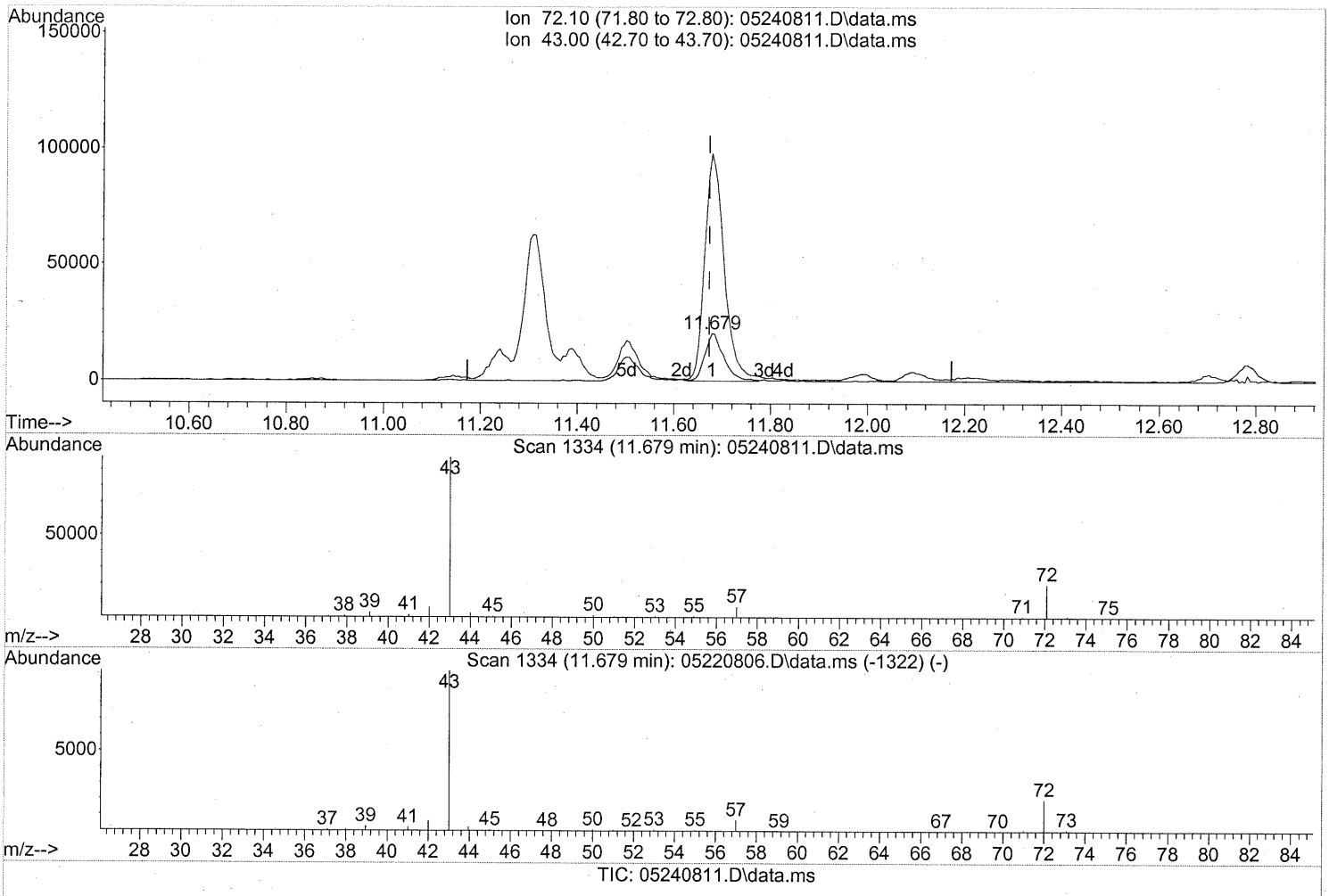
corr. baseline
JDA 5/29/08
WA 5/30/08

114

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 3.48ng

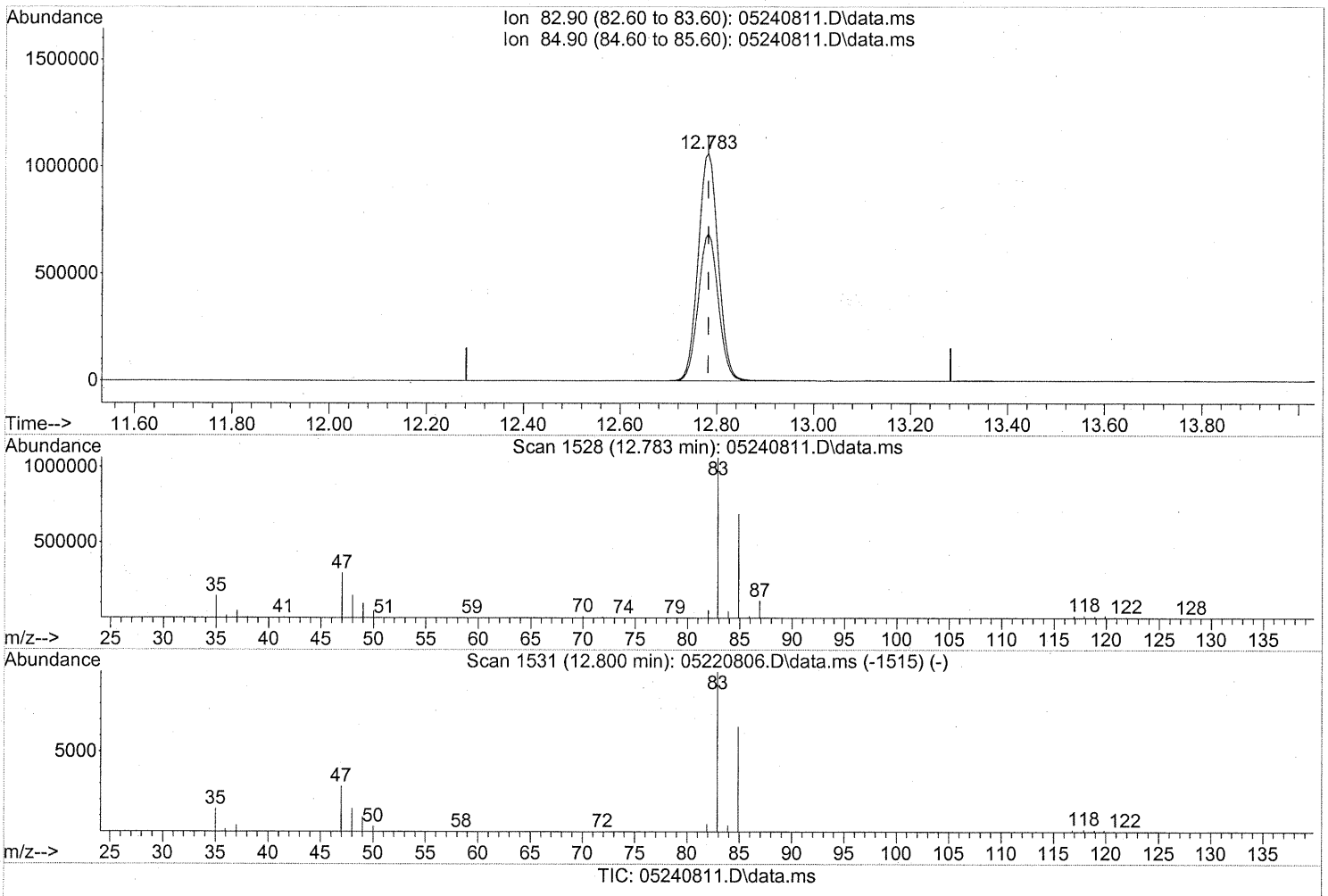
response 55332

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	490.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(32) Chloroform (T)

12.783min (-0.000) 82.41ng

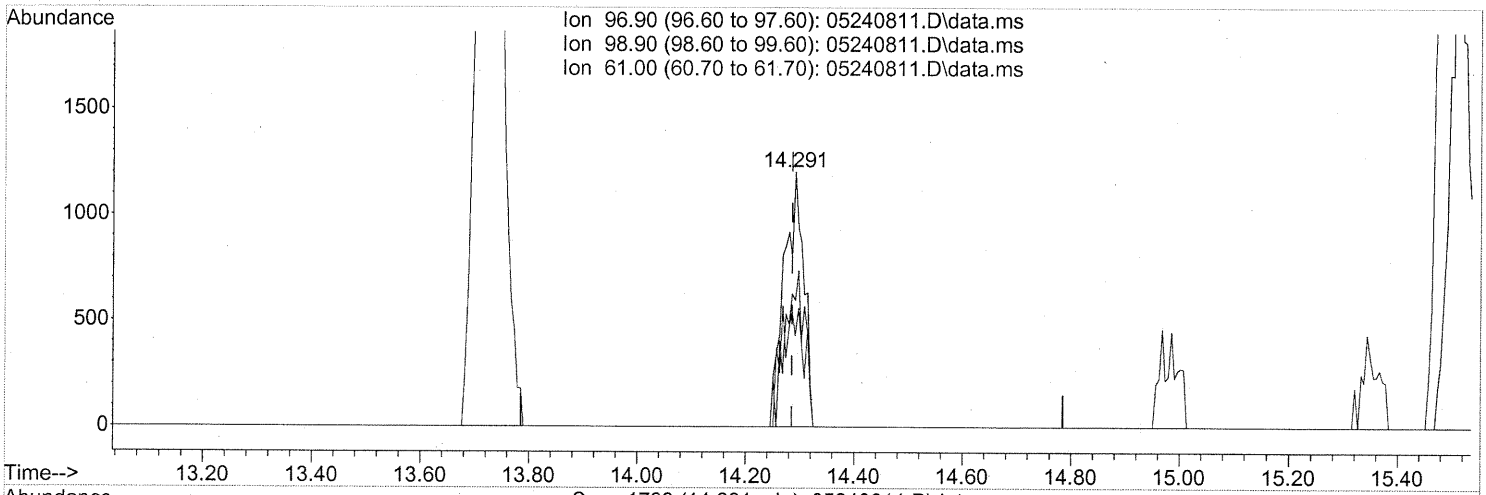
response 3044900

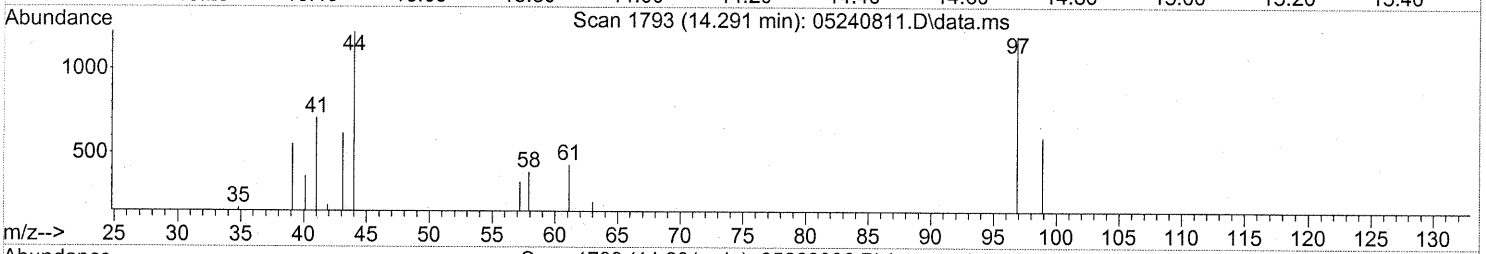
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.58
0.00	0.00	0.00
0.00	0.00	0.00

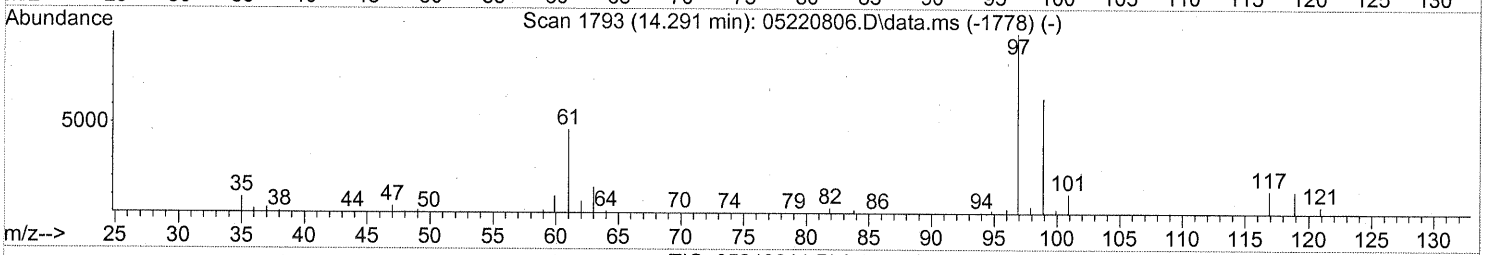
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240811.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.07ng

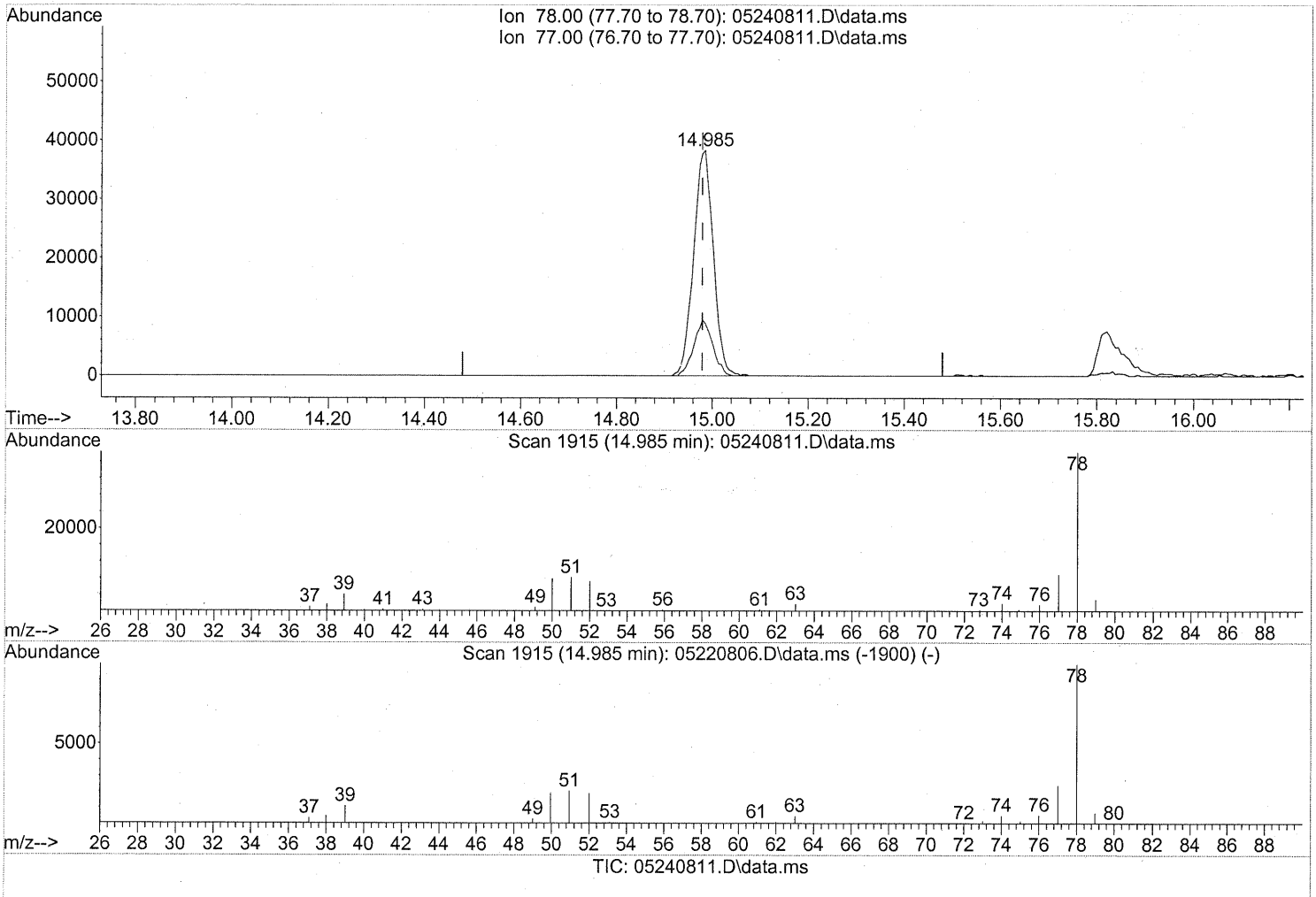
response 3025

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	61.16
61.00	50.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(41) Benzene (T)

14.985min (+0.006) 1.16ng

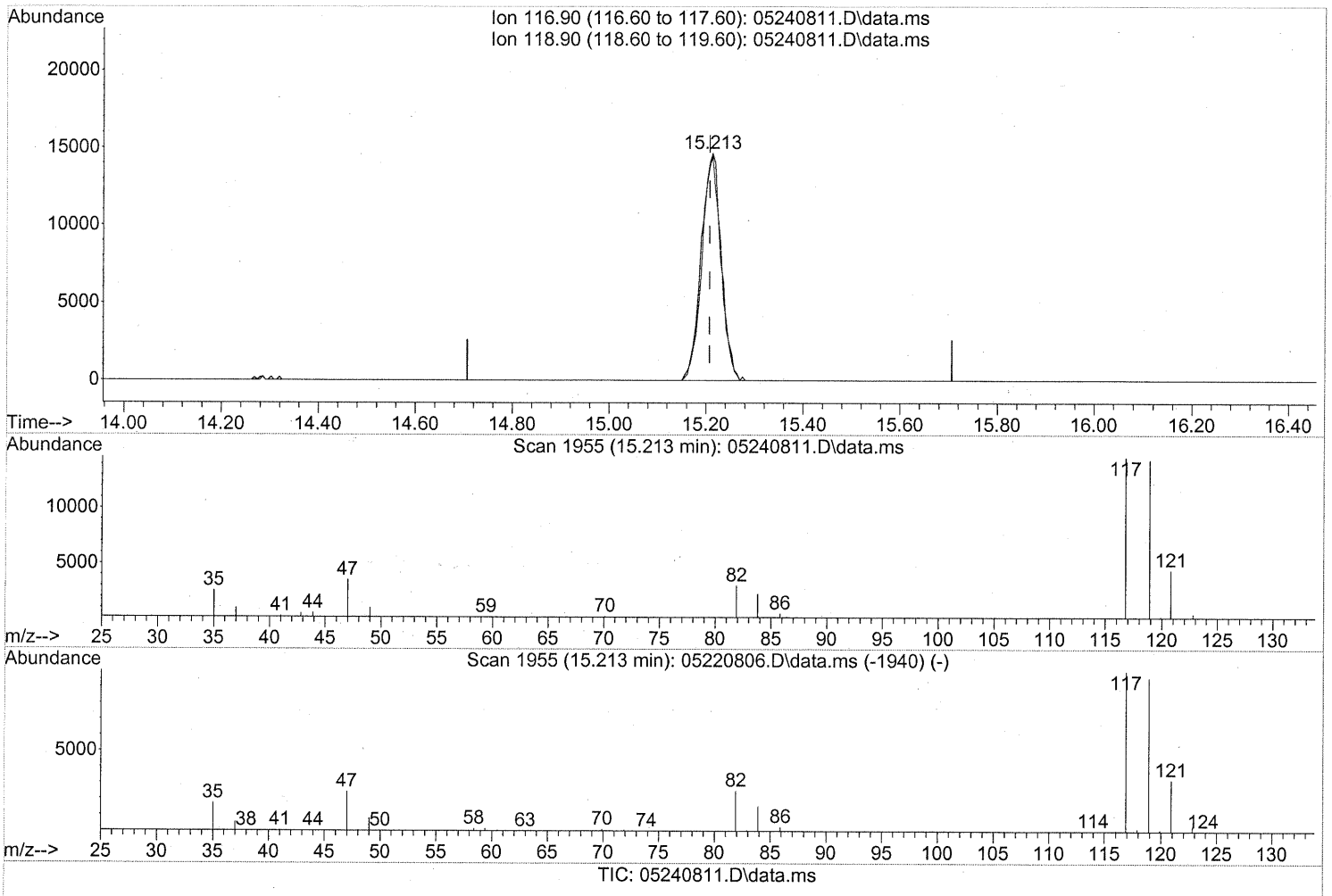
response 109284

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 1.15ng

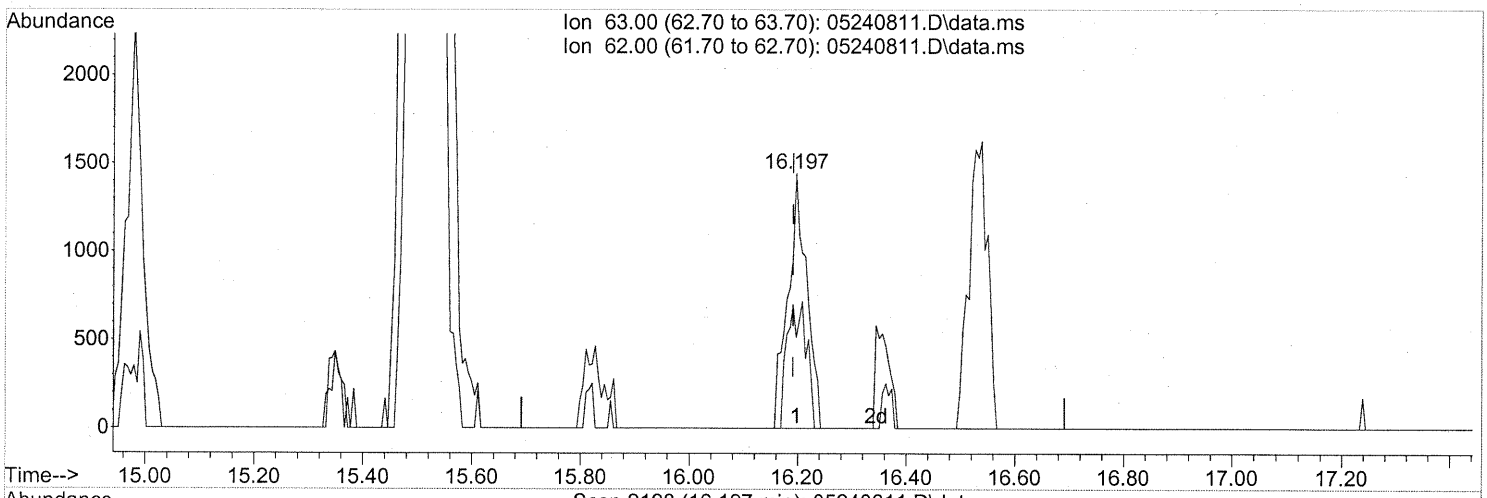
response 41606

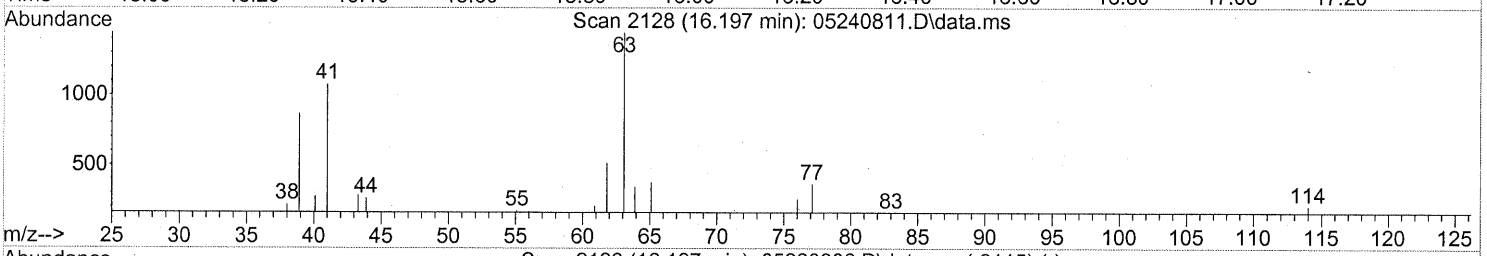
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.31
0.00	0.00	0.00
0.00	0.00	0.00

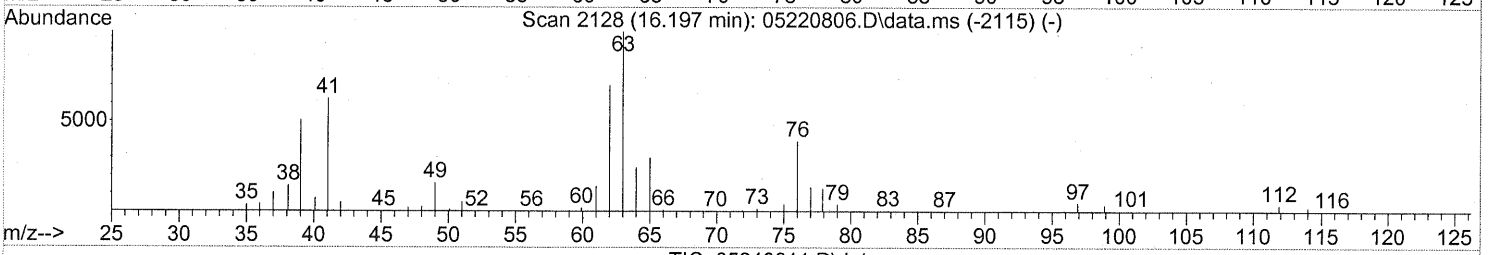
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240811.D\data.ms

(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.14ng

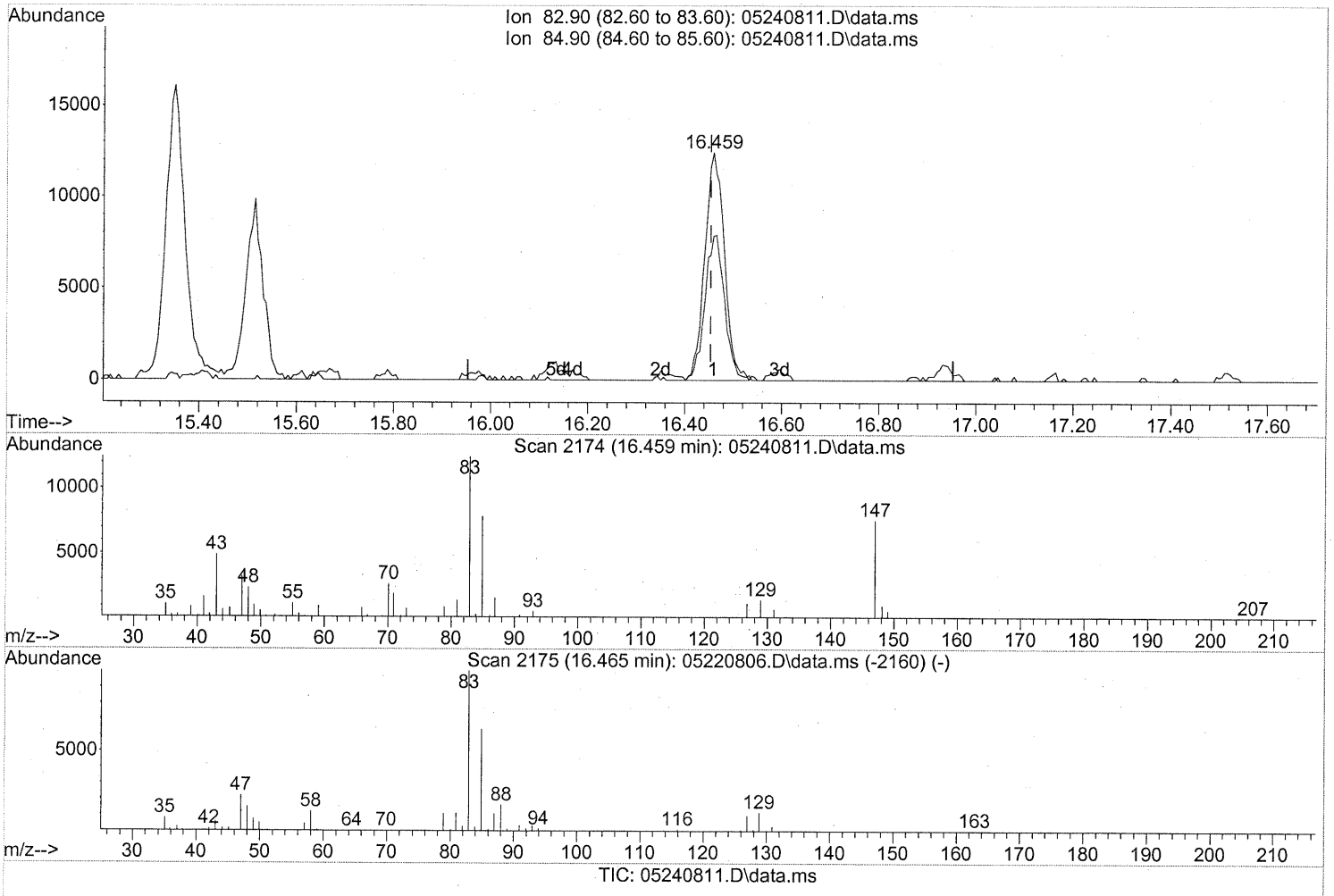
response 3487

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	50.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 1.10ng

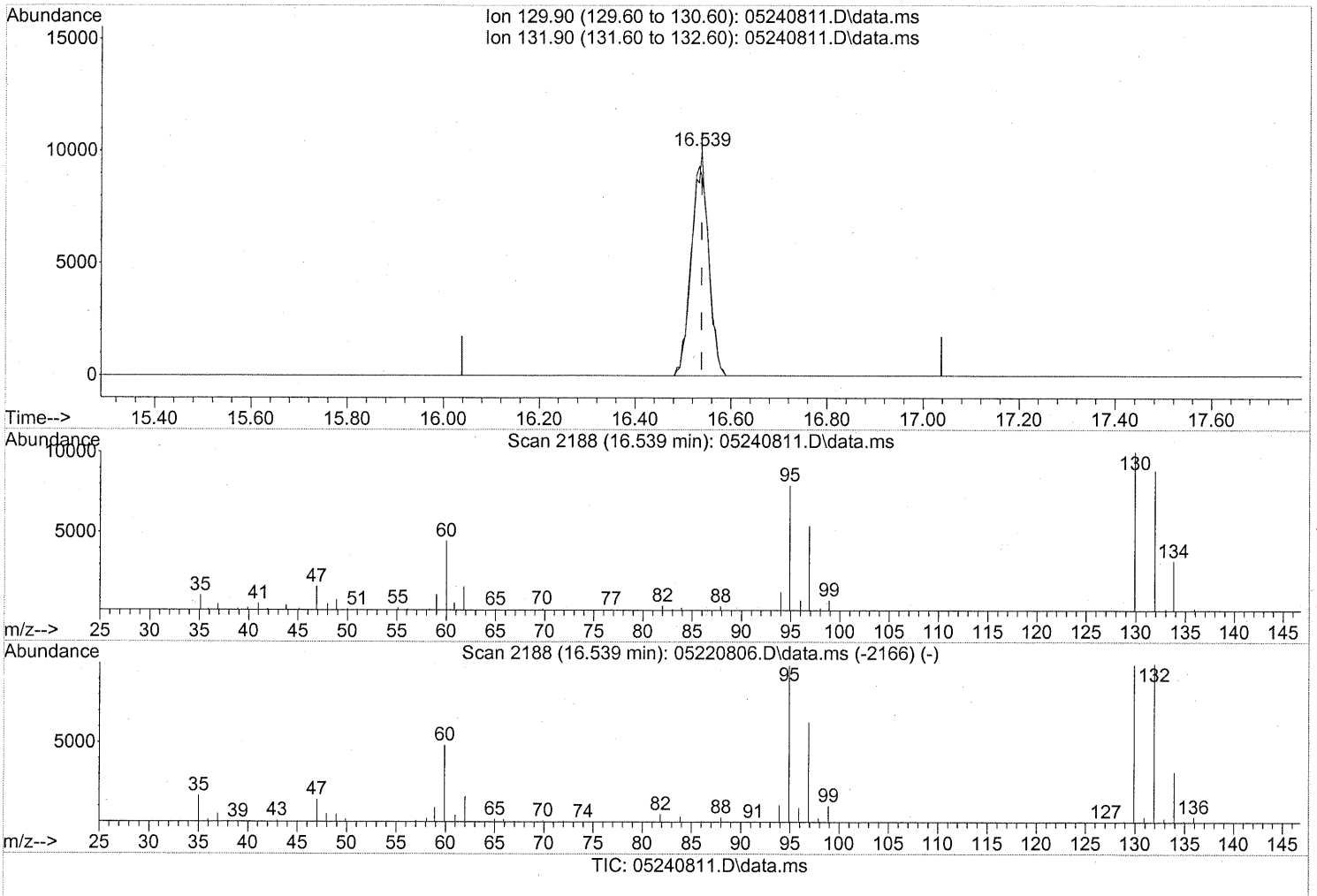
response 34917

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	63.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(47) Trichloroethene (T)

16.539min (-0.000) 0.85ng

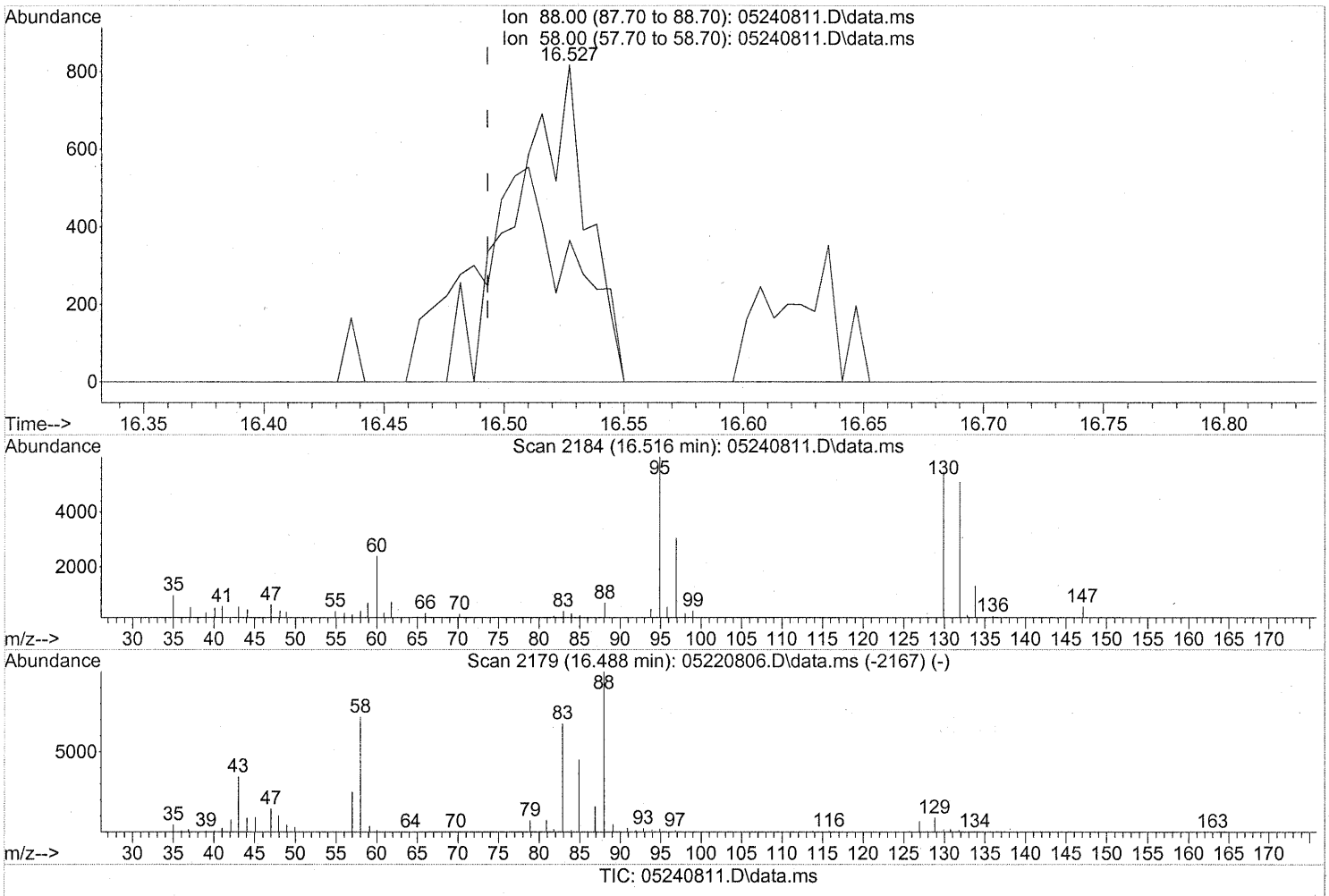
response 24394

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	98.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(48) 1,4-Dioxane (T)

16.527min (+0.034) 0.10ng

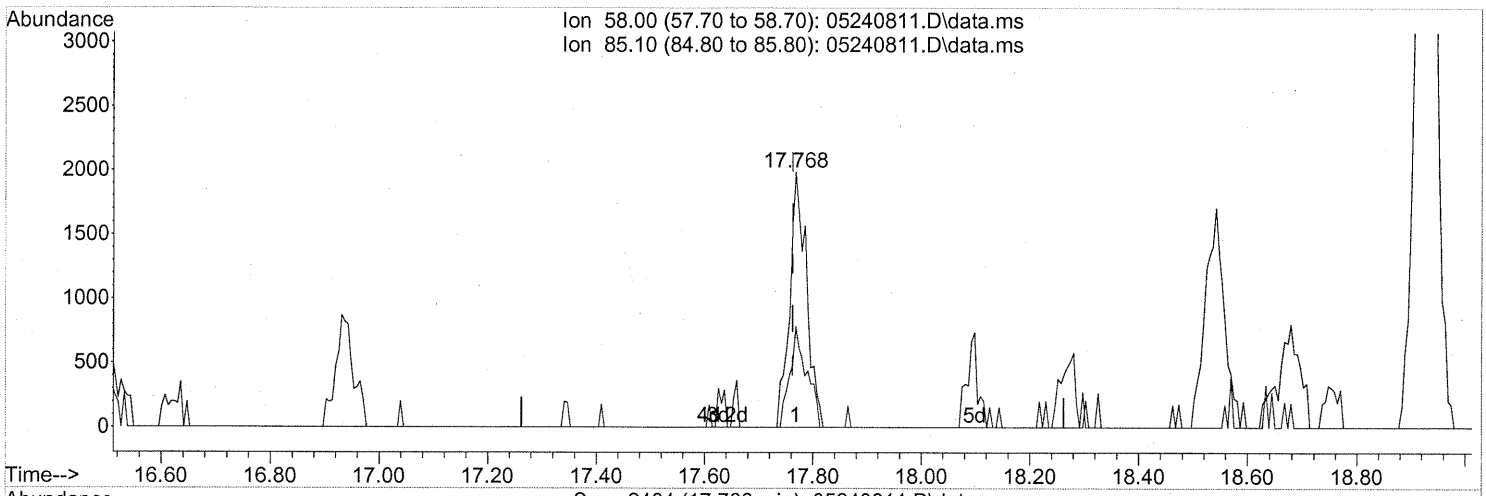
response 1694

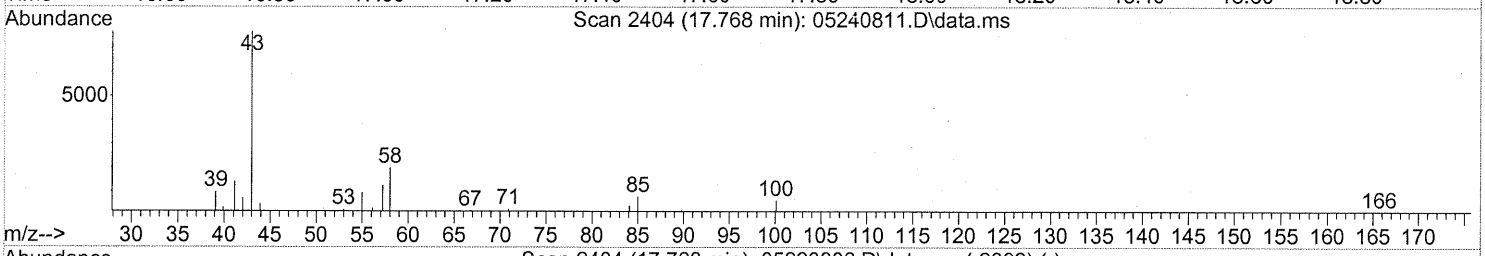
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	94.81
0.00	0.00	0.00
0.00	0.00	0.00

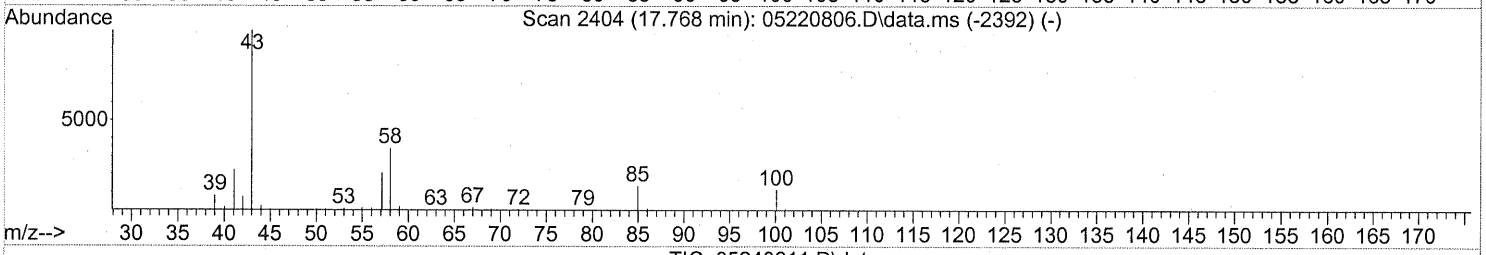
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240811.D\data.ms

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

17.768min (+0.006) 0.17ng

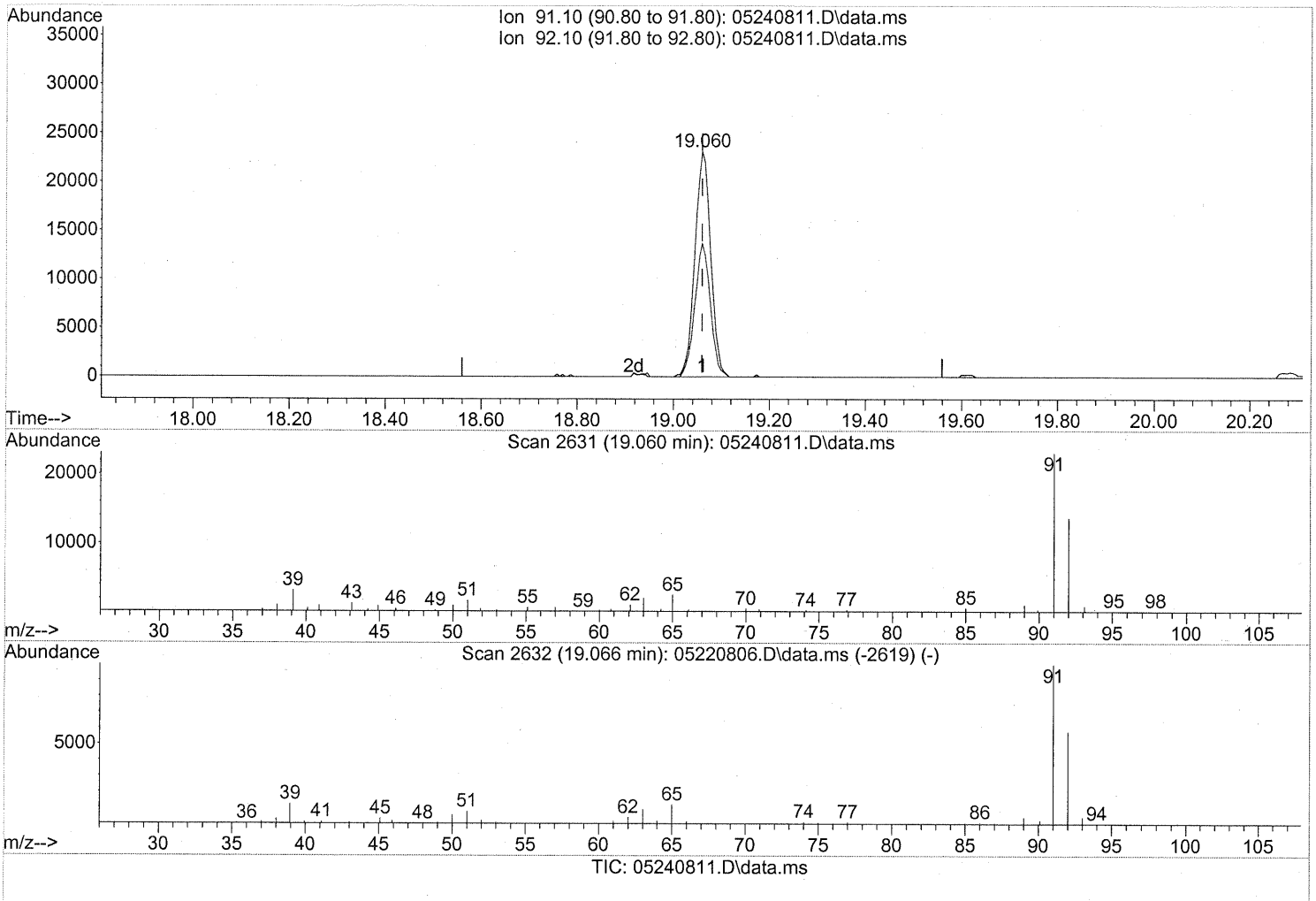
response 4300

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.50ng

response 52851

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
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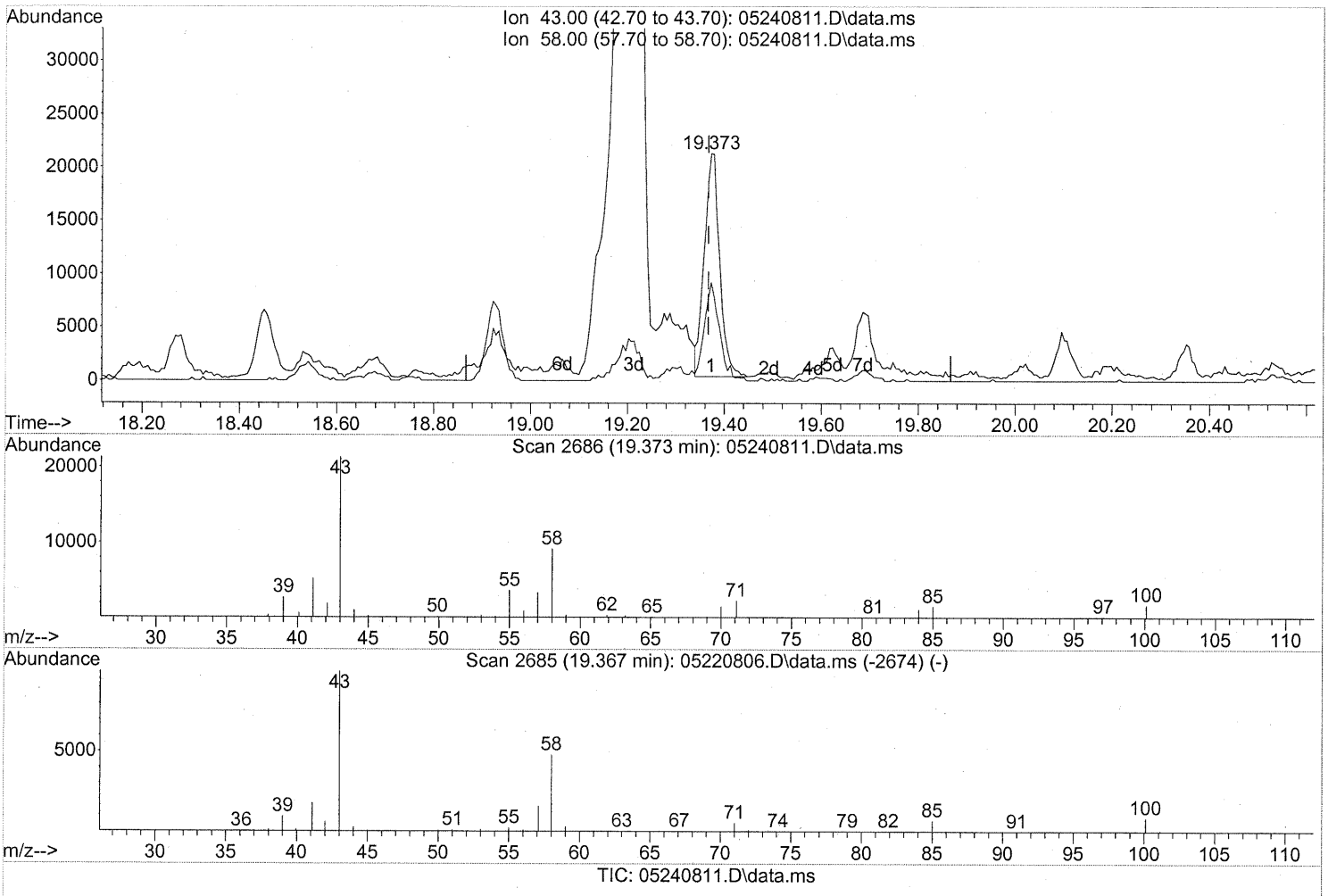
Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.63ng

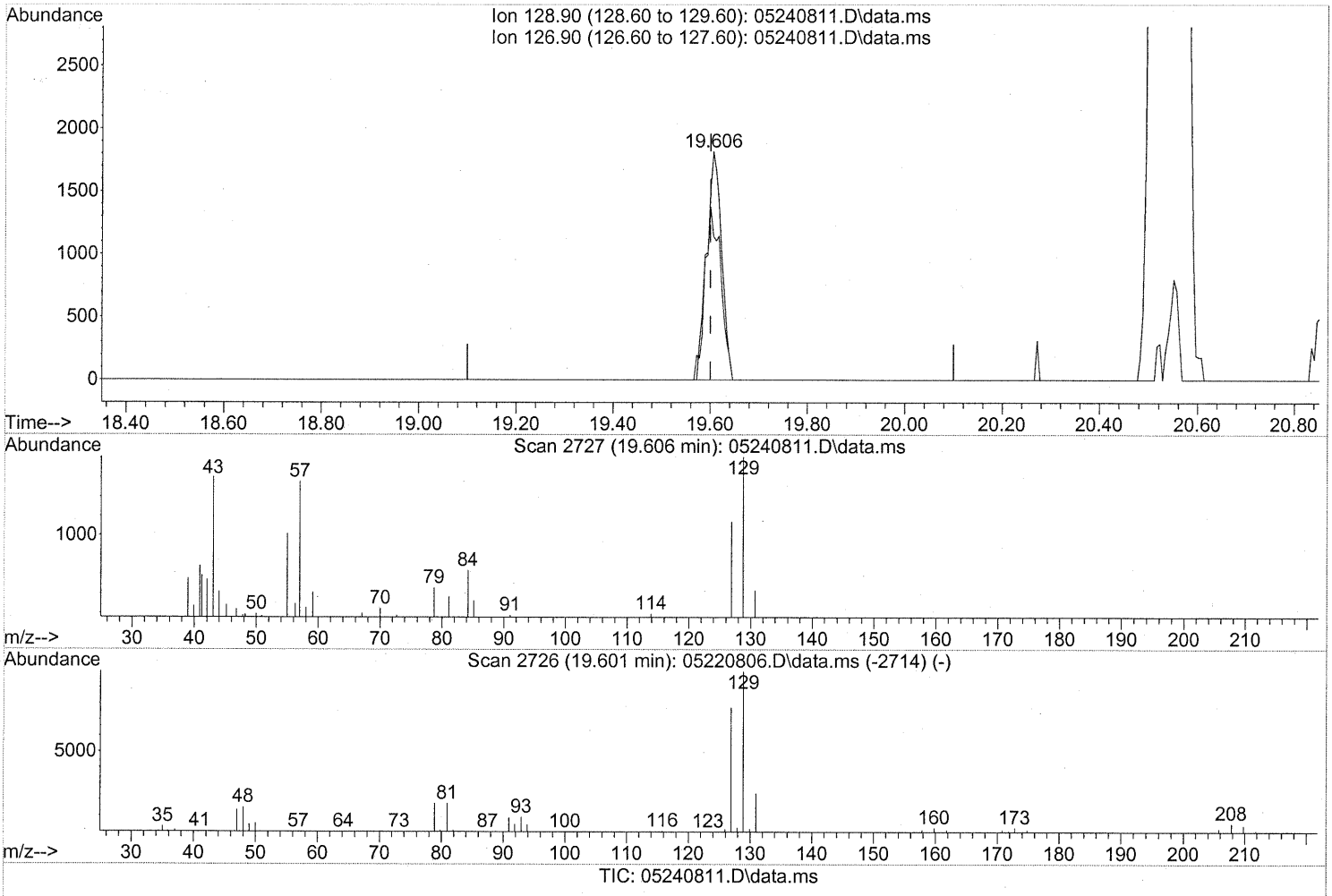
response 46506

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(60) Dibromochloromethane (T)

19.606min (+0.006) 0.14ng

response 3879

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	79.79
0.00	0.00	0.00
0.00	0.00	0.00

127

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
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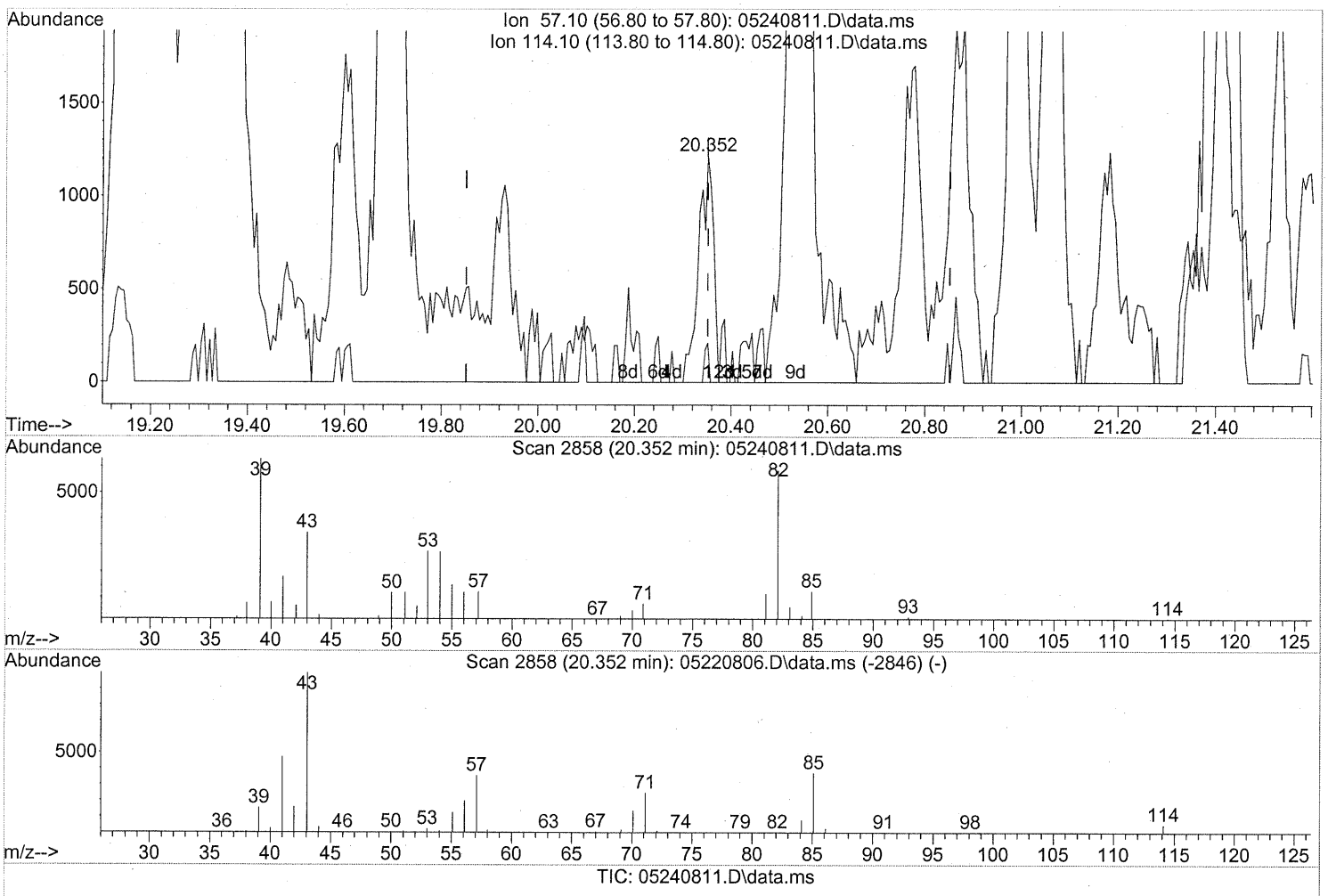

TIC: 05240811.D\data.ms

(63) n-Octane (T)

20.352min (-0.000) 0.11ng

response 2565

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	5.11
0.00	0.00	0.00
0.00	0.00	0.00

128

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

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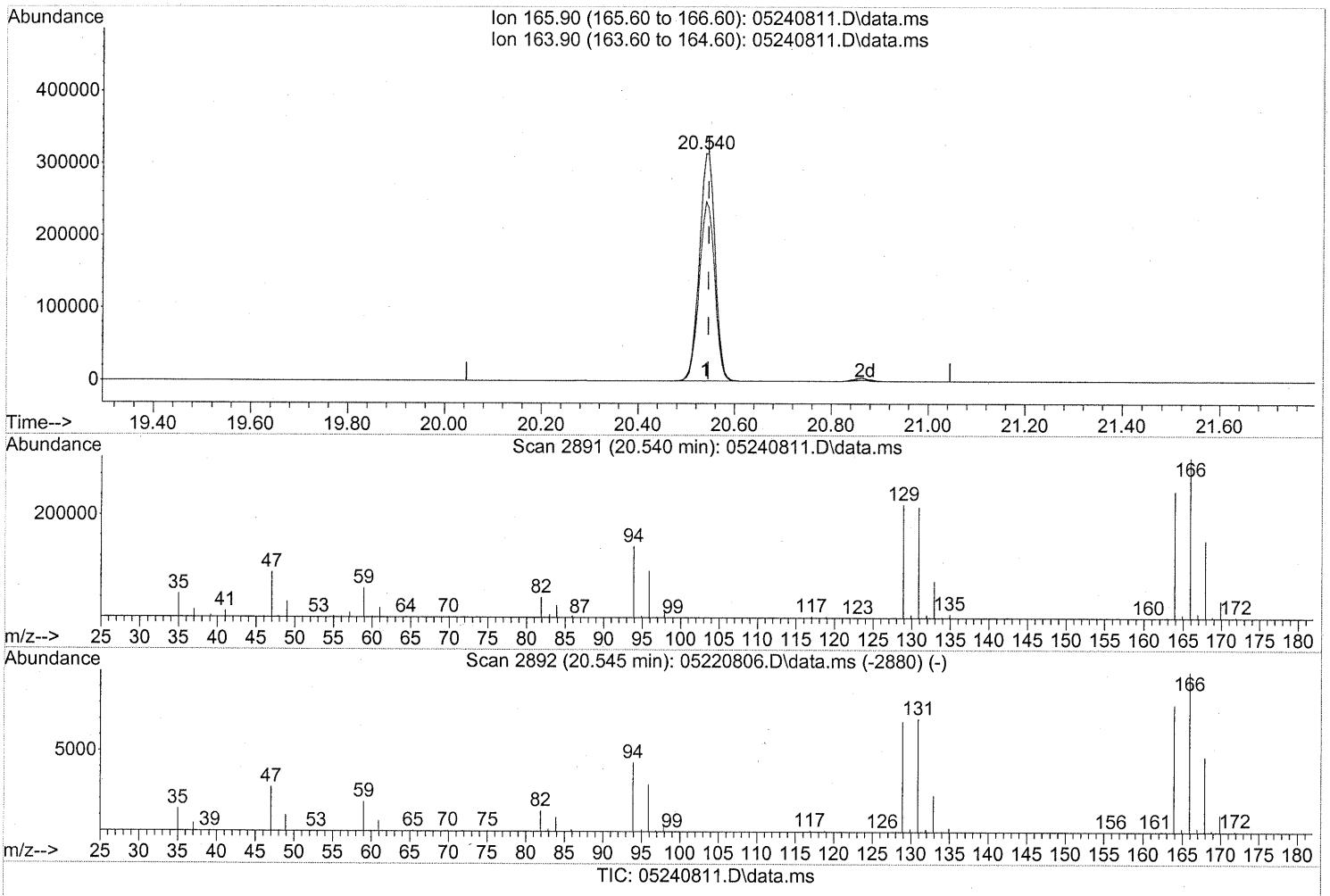
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 22.59ng

response 711013

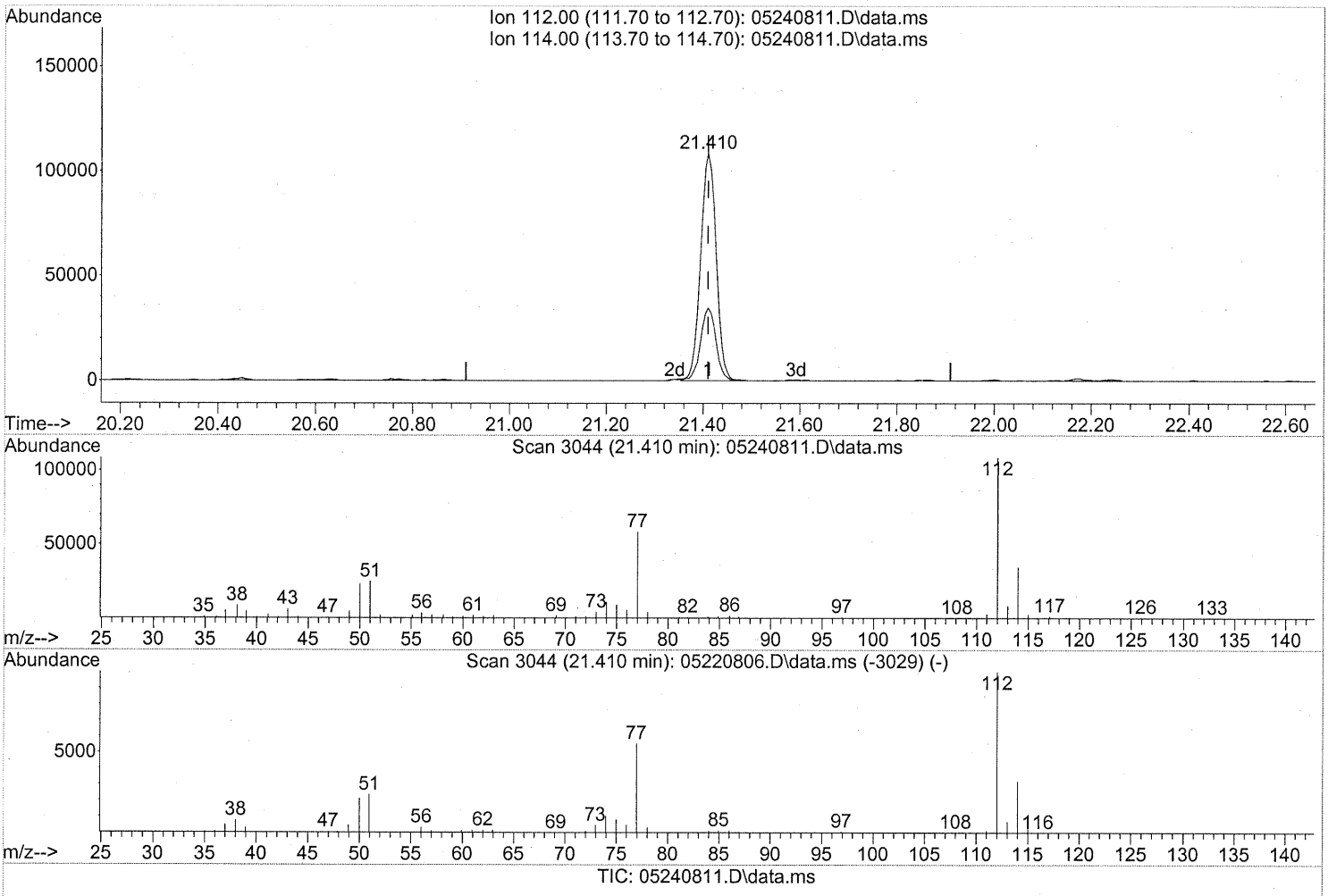
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.69
0.00	0.00	0.00
0.00	0.00	0.00

129

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(65) Chlorobenzene (T)

21.410min (-0.000) 3.38ng

response 240806

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
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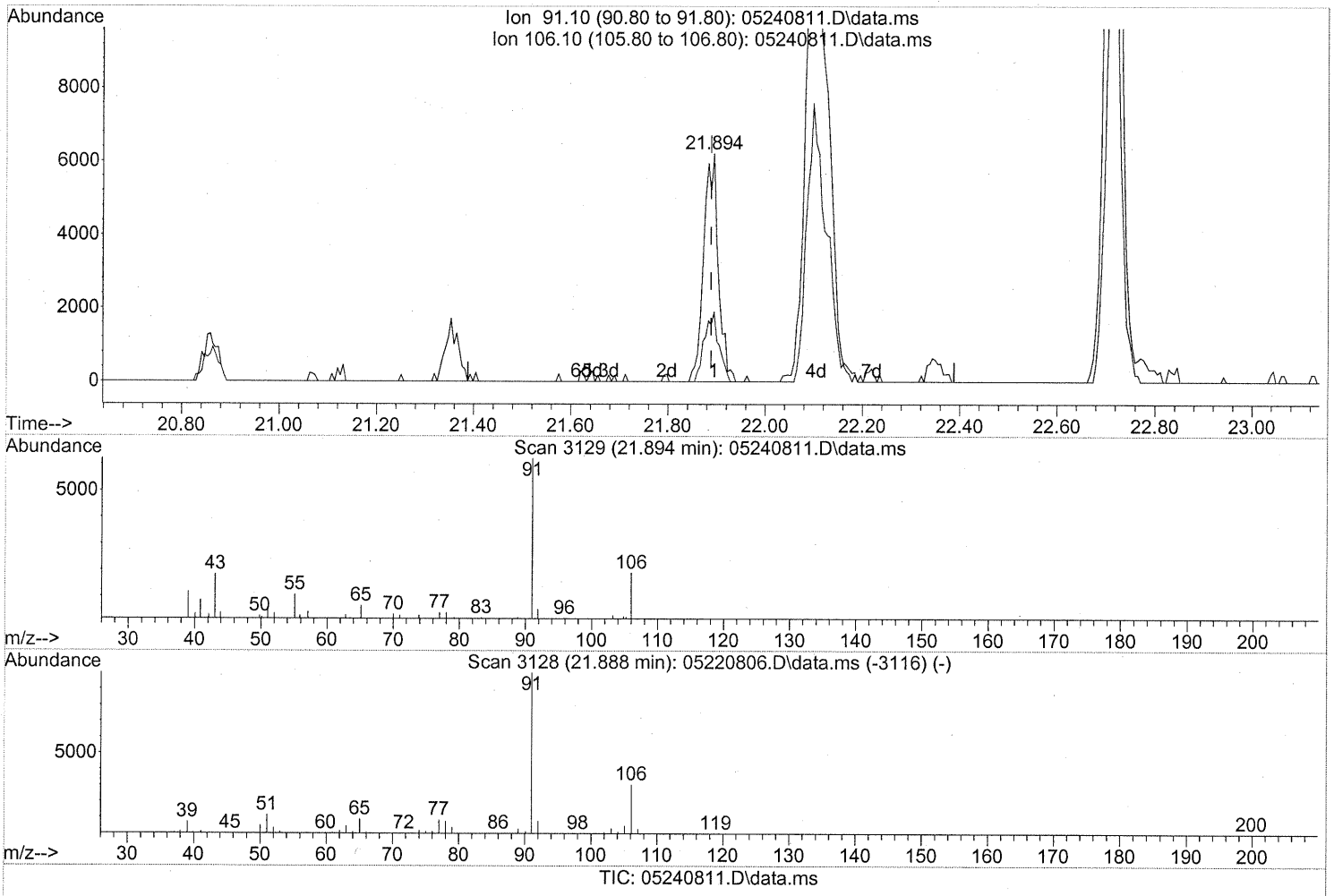
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(66) Ethylbenzene (T)

21.894min (+0.006) 0.11ng

response 12987

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
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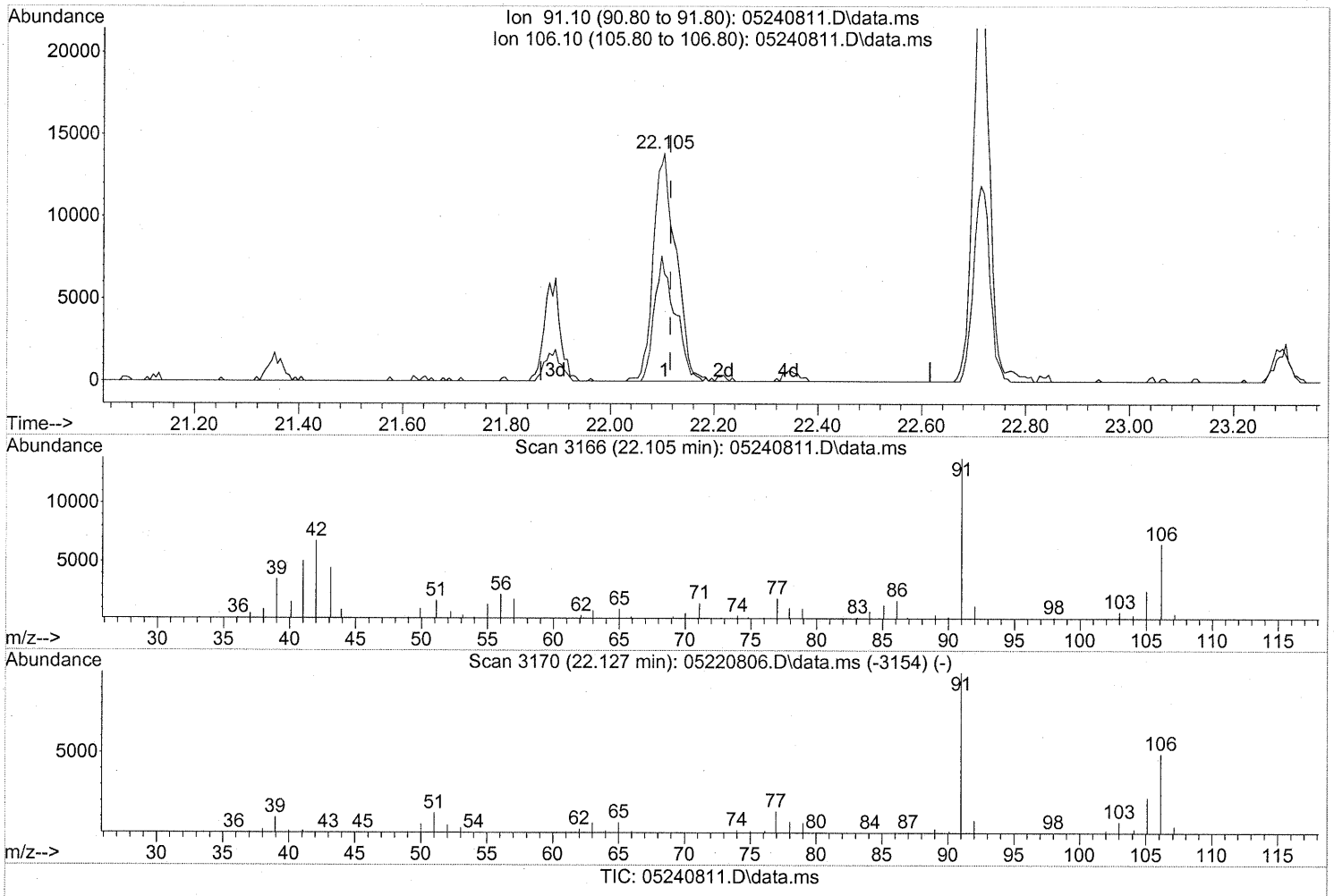
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

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

22.105min (-0.011) 0.51ng

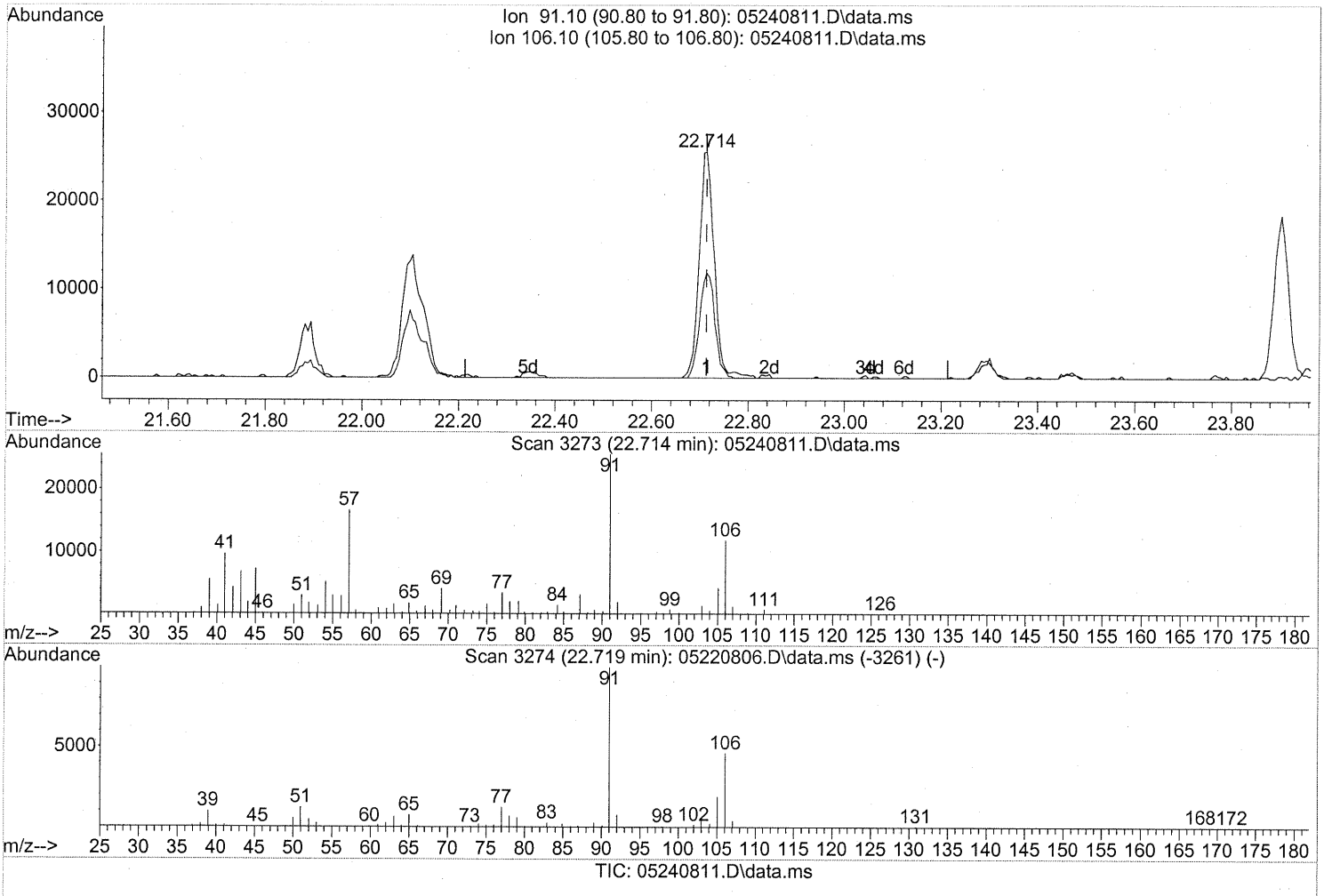
response 41374

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	51.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.63ng

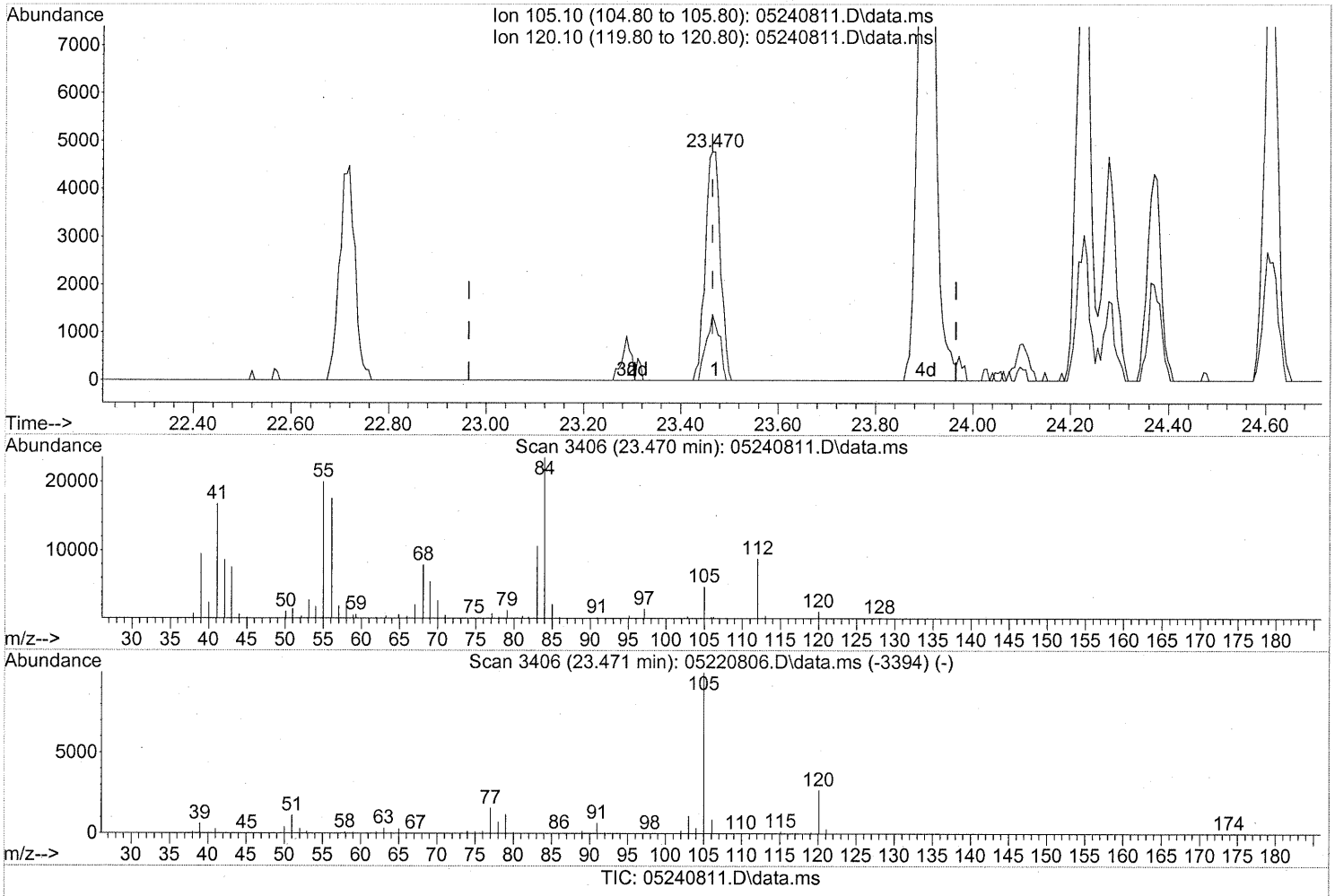
response 55079

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(74) Cumene (T)

23.470min (+0.006) 0.09ng

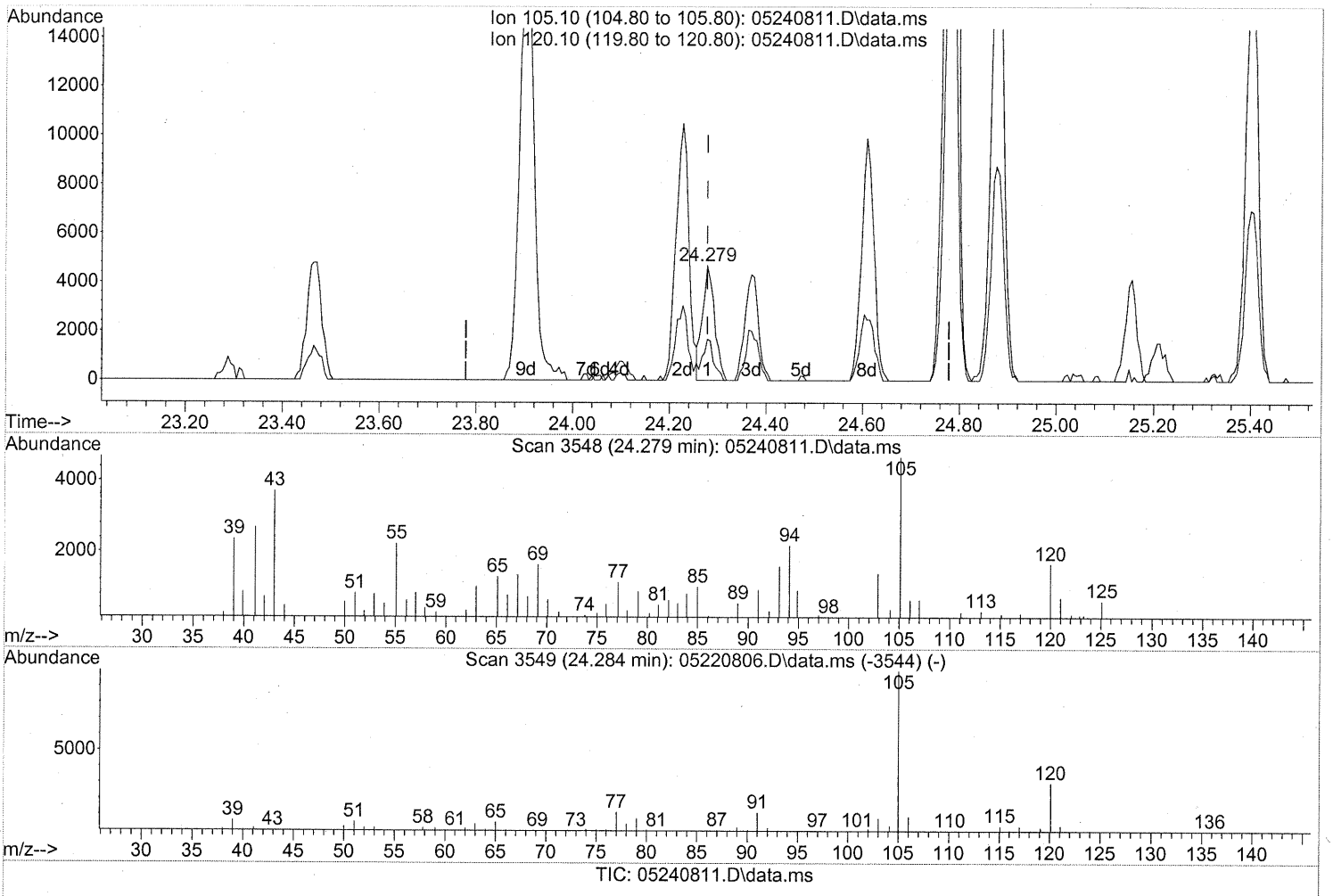
response 10282

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.07ng

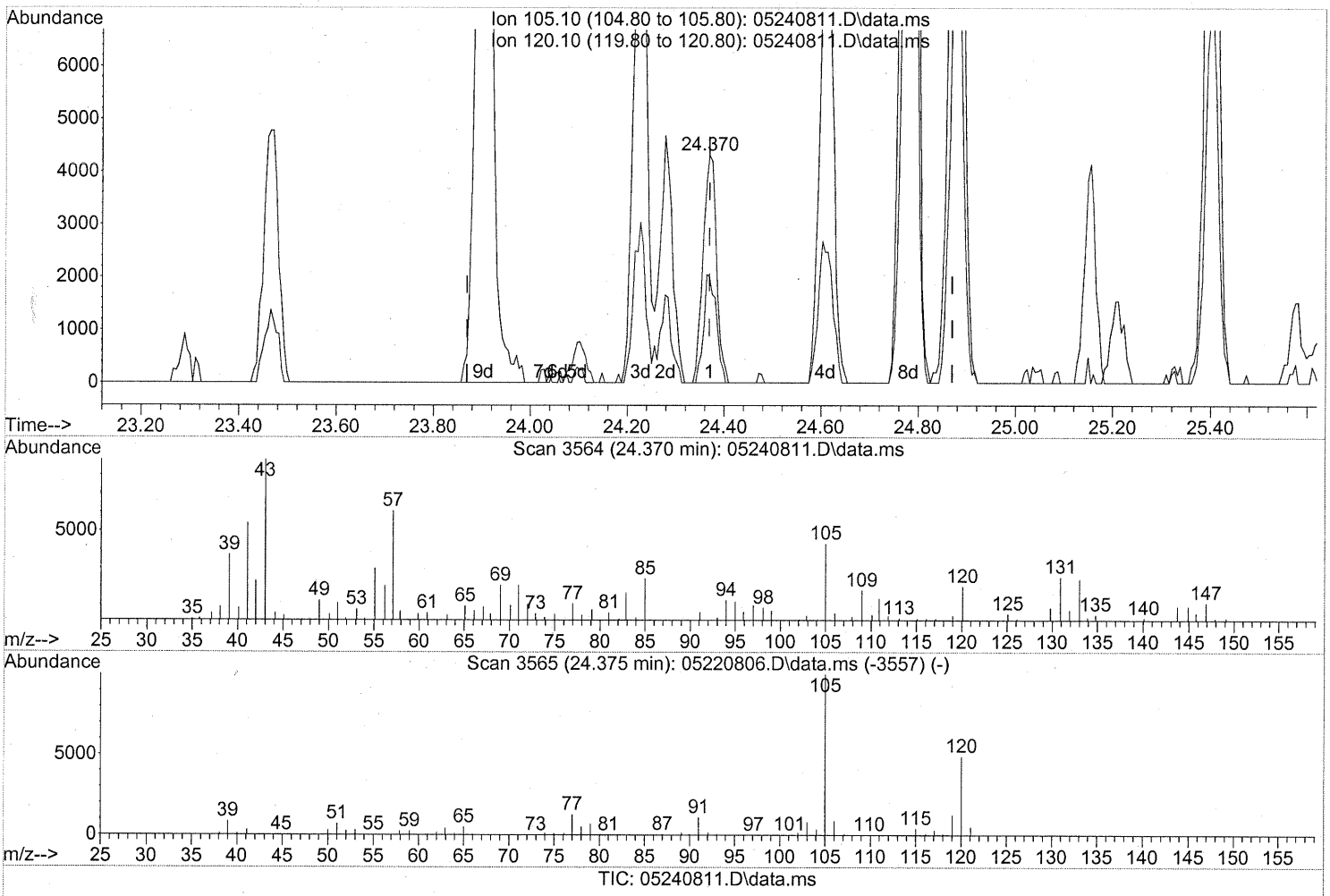
response 8098

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	30.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

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

24.370min (-0.000) 0.08ng

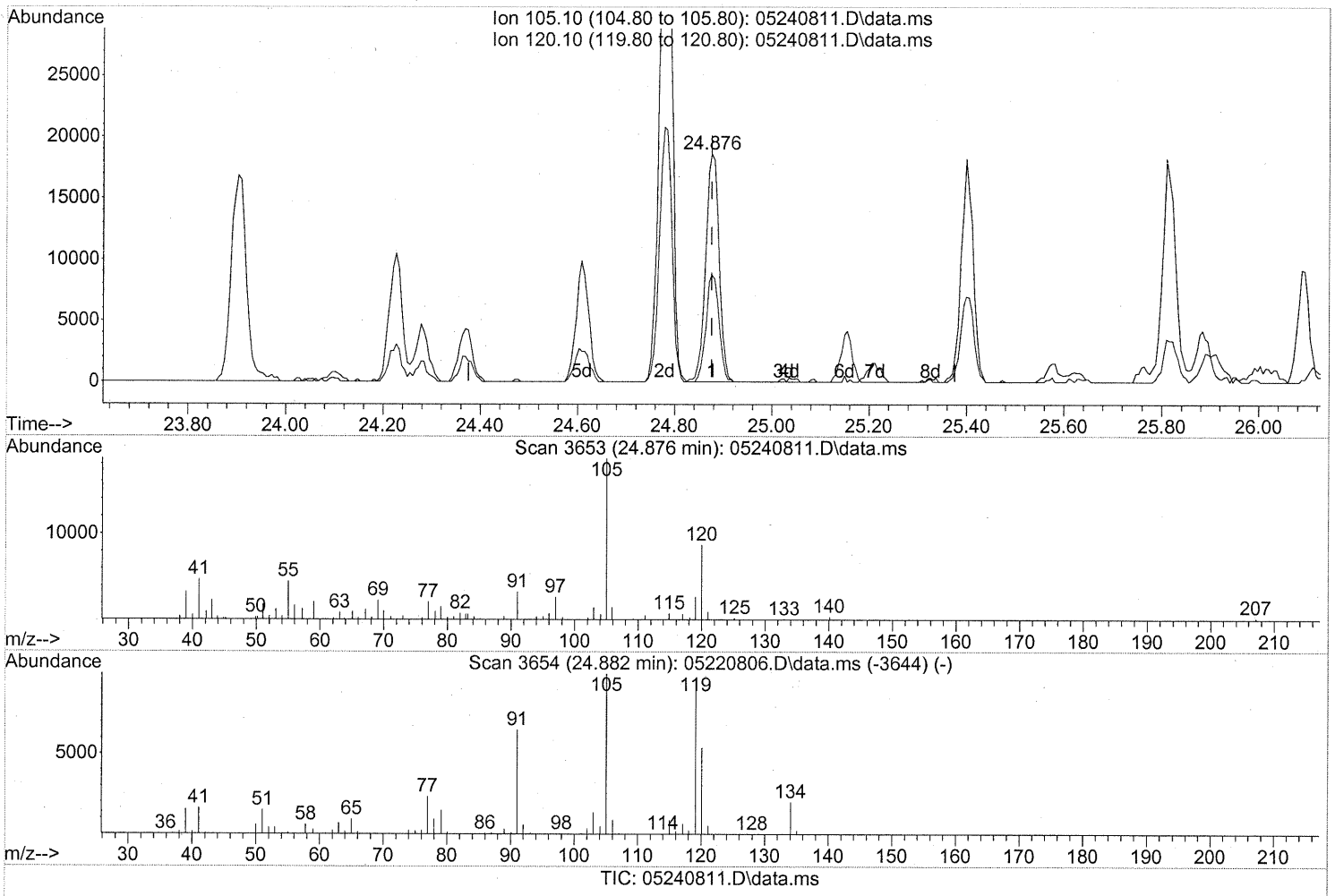
response 8361

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	44.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

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

24.876min (-0.000) 0.33ng

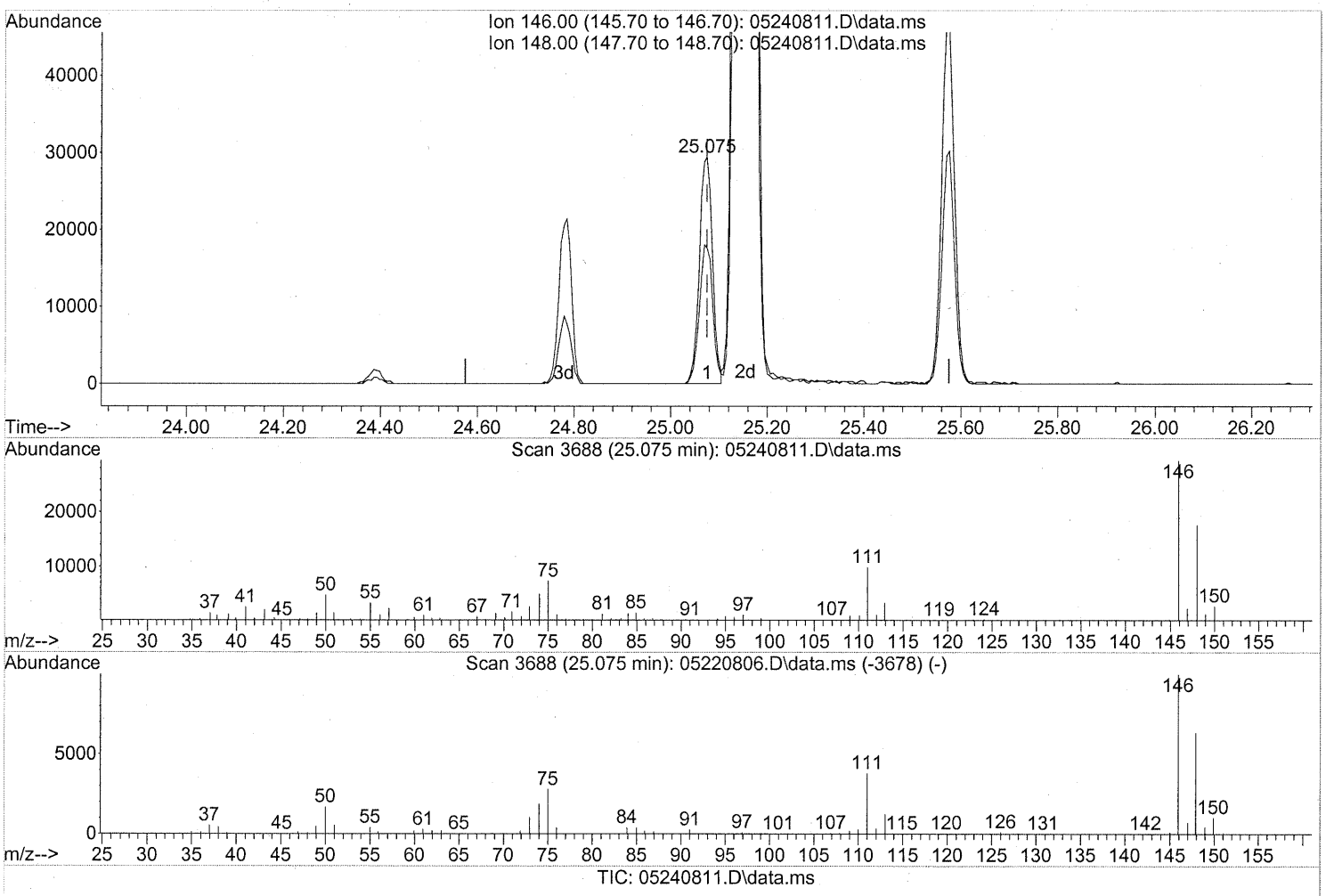
response 35403

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.82ng

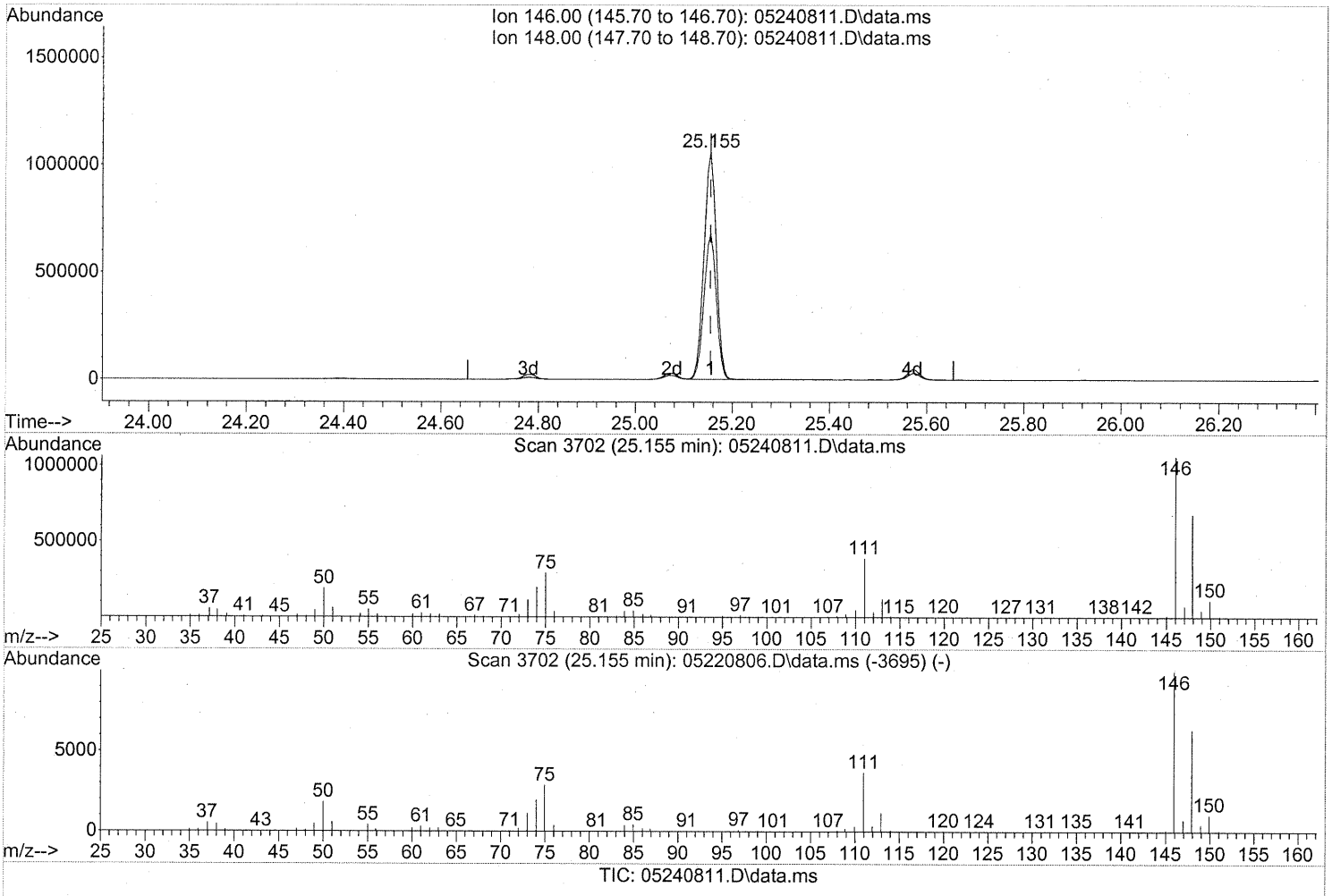
response 55000

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 28.95ng

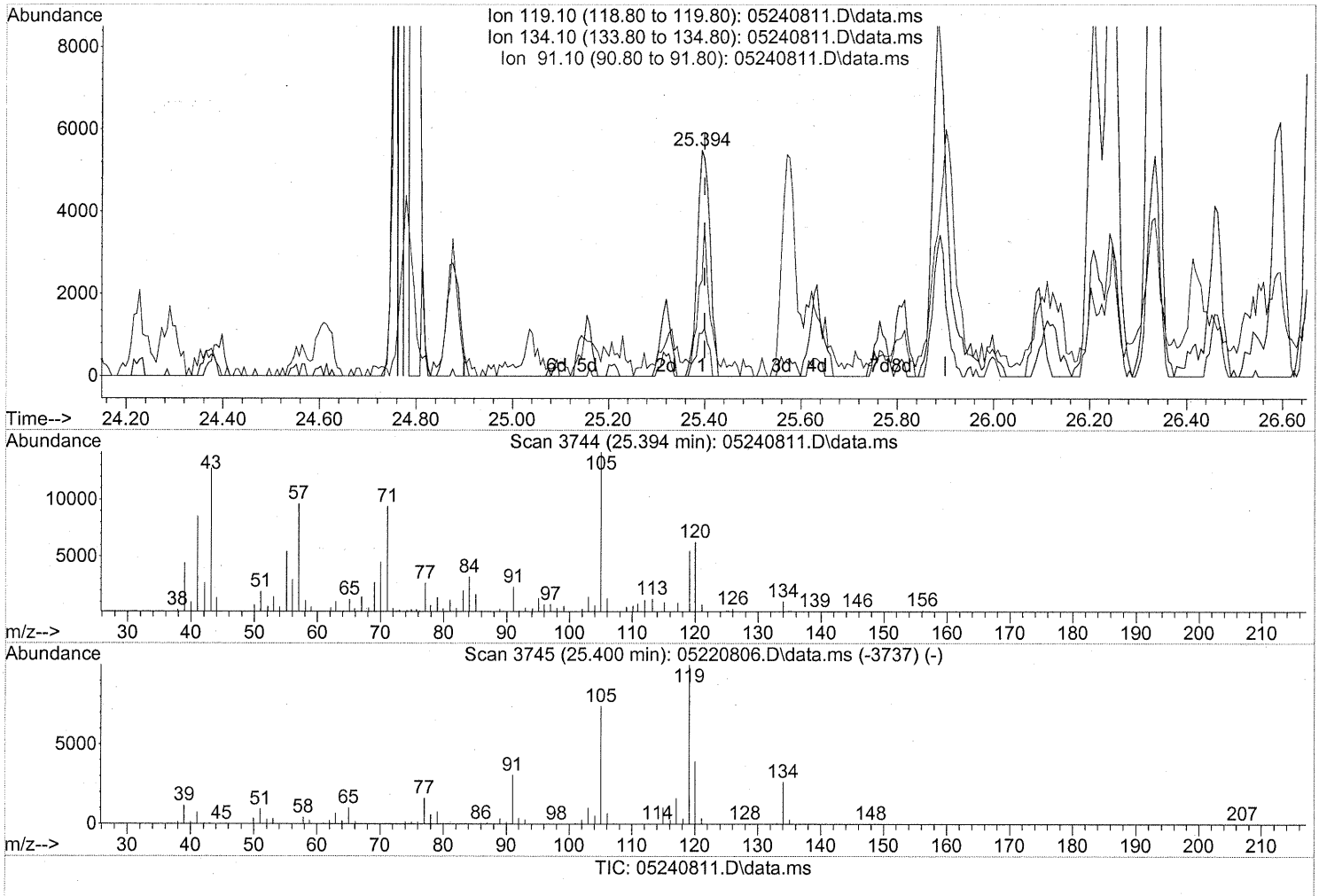
response 1878475

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.09ng

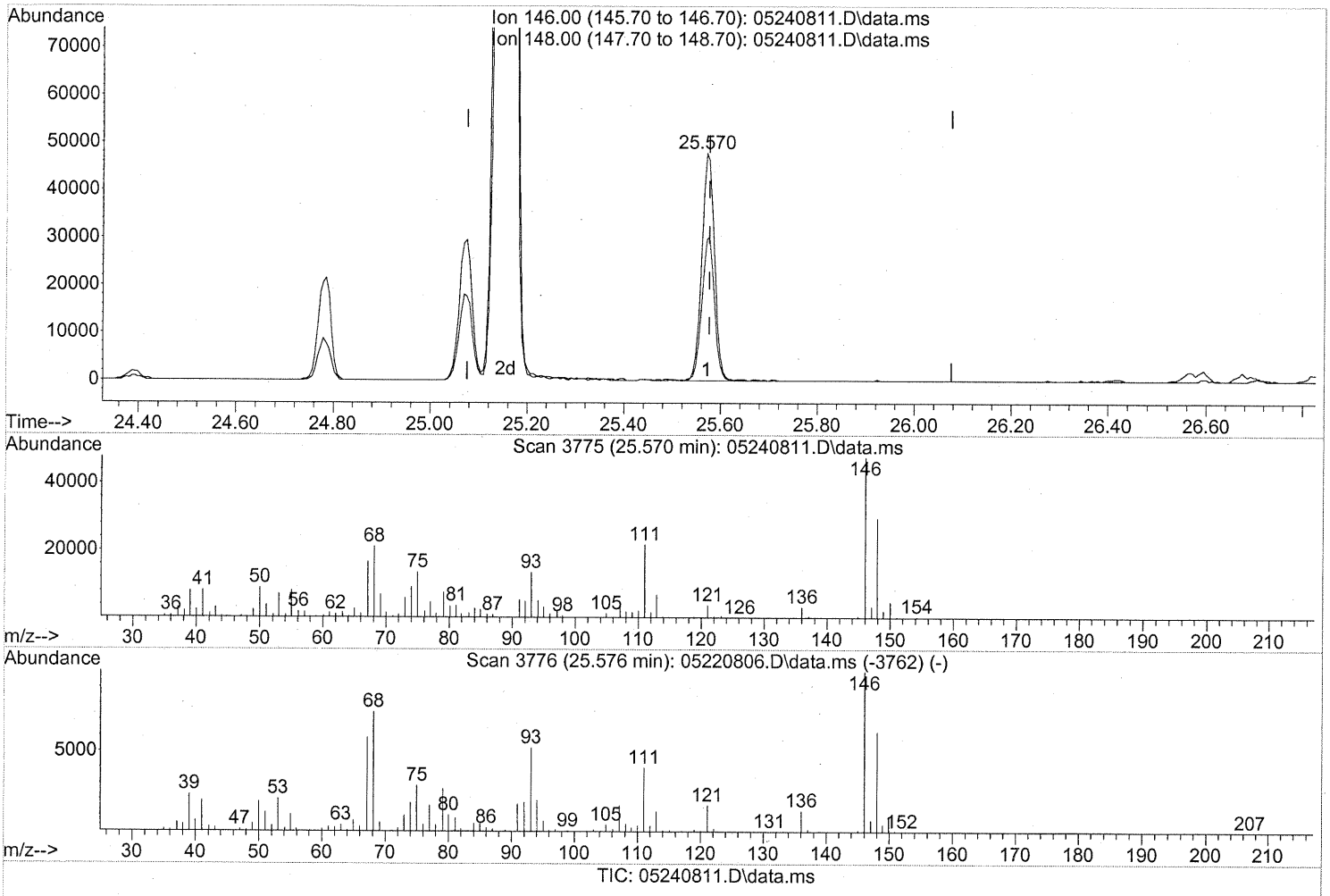
response 10147

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	19.56
91.10	27.10	47.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.570min (-0.006) 1.38ng

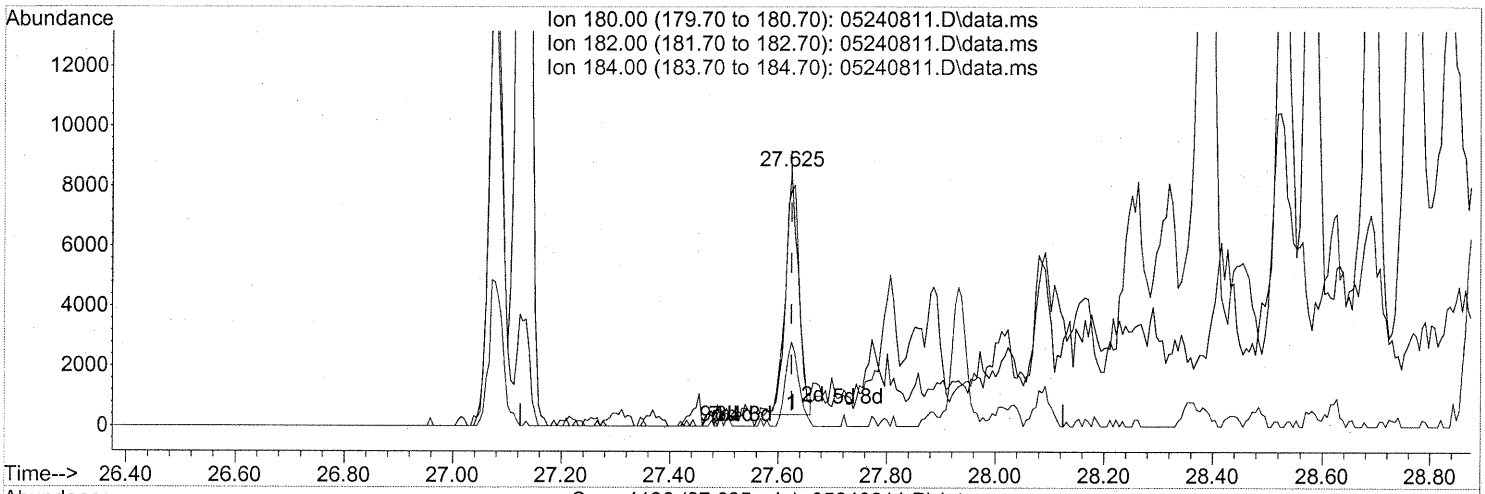
response 87801

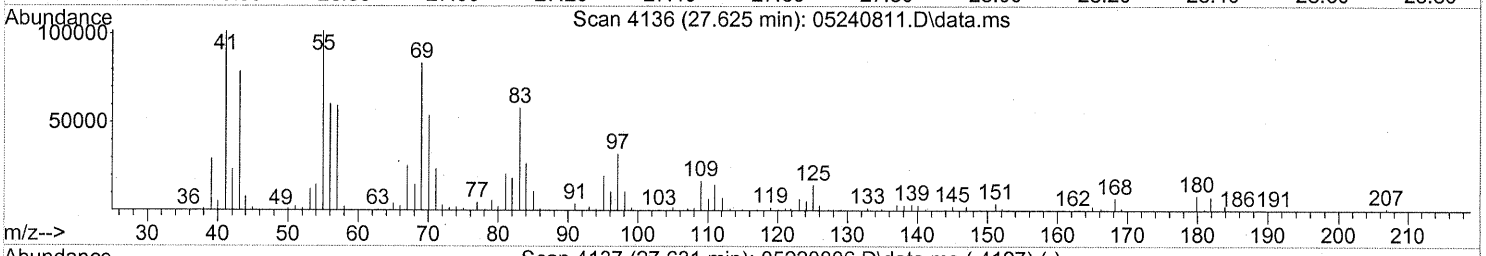
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.34
0.00	0.00	0.00
0.00	0.00	0.00

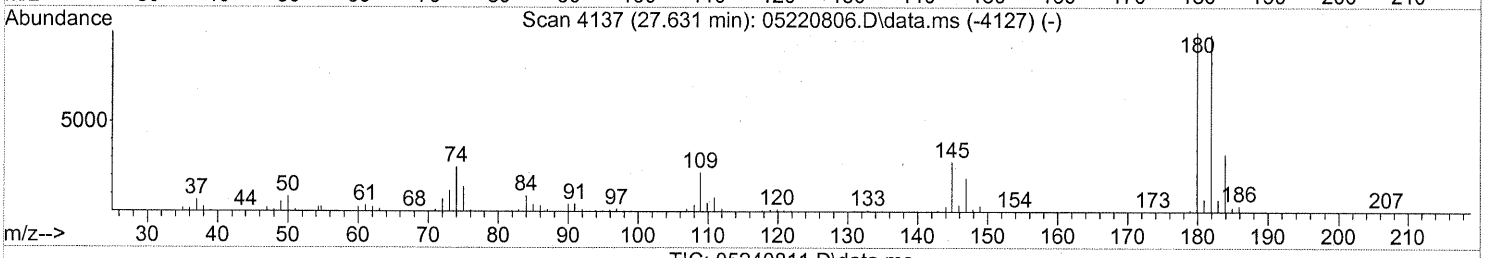
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240811.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.29ng

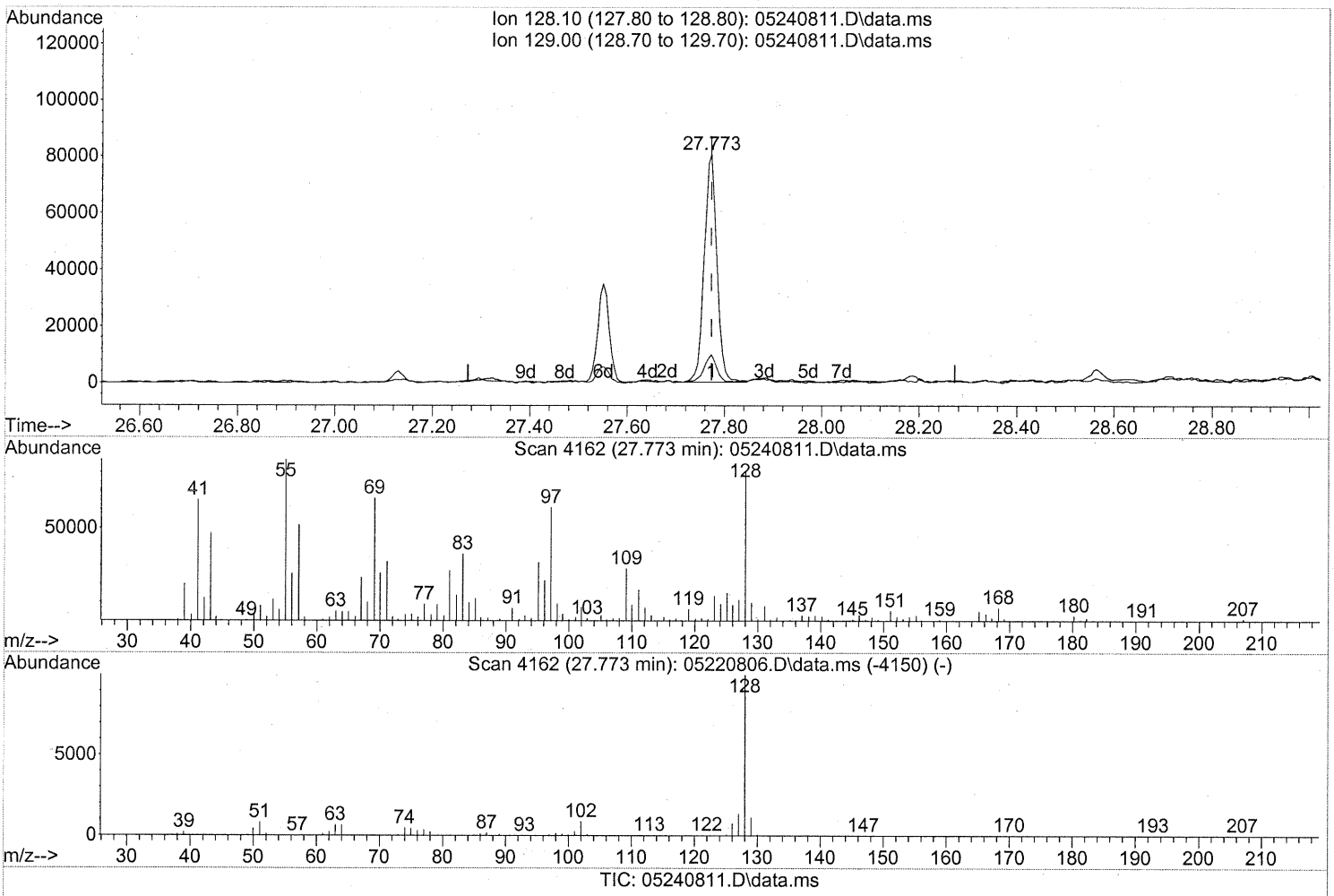
response 13466

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	109.30
184.00	30.30	36.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 1.03ng

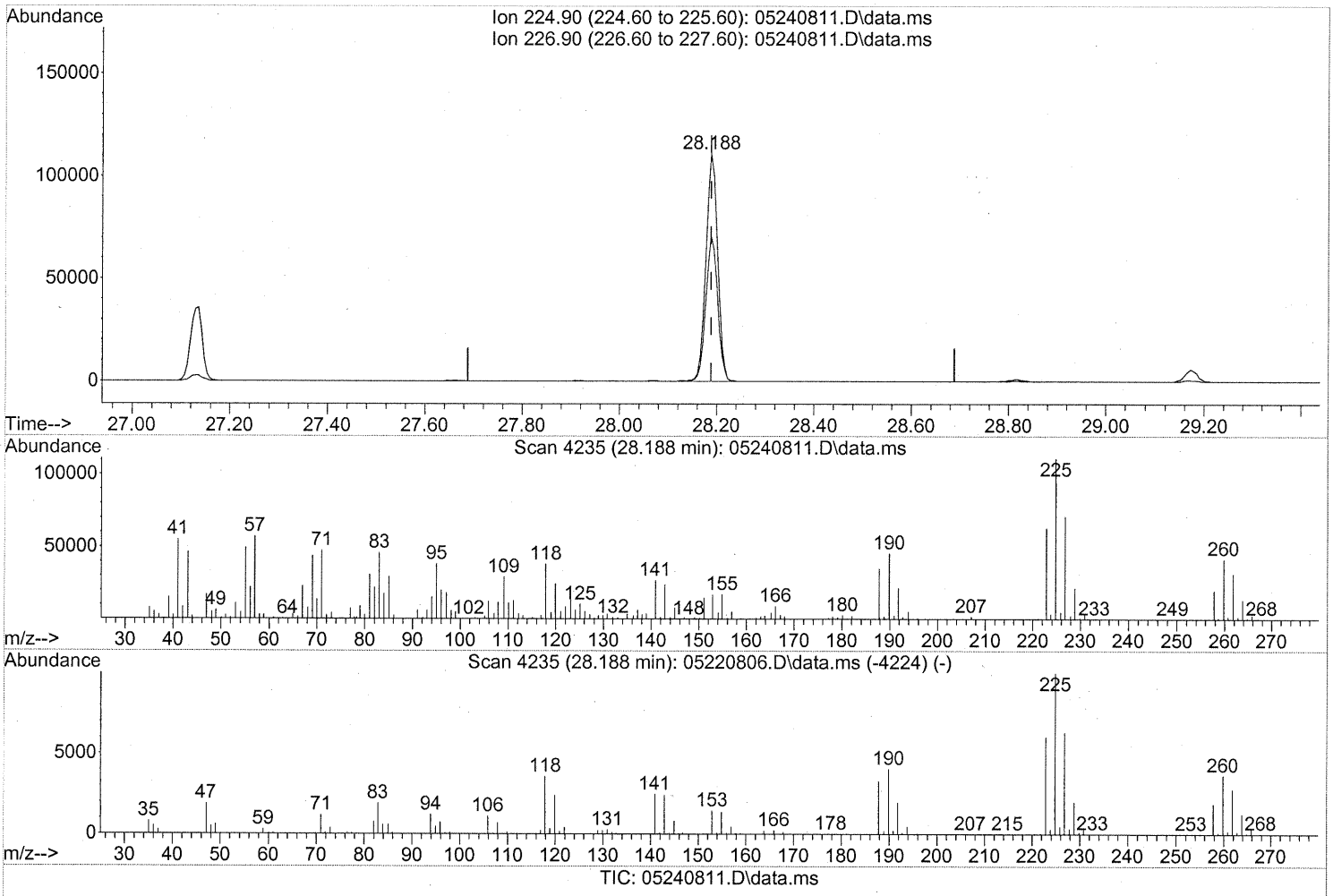
response 145086

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 19:47:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 6.02ng

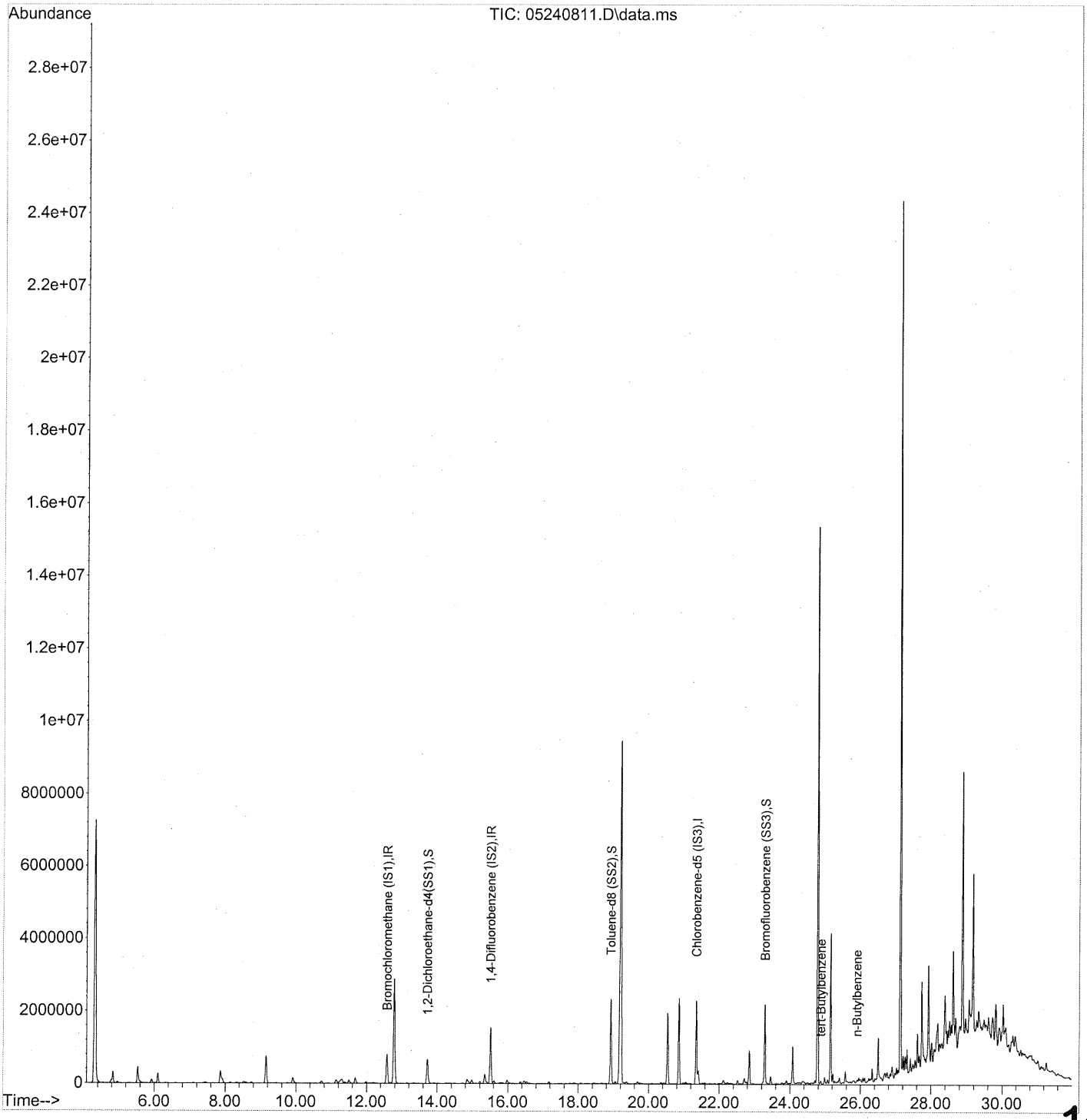
response 186186

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	64.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 25 20:36:35 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 25 20:36:35 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	405189	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1793020	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	871340	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	13.73	65	683941	24.361	ng		-0.02
Spiked Amount 25.000			Recovery =	97.44%			
5) Toluene-d8 (SS2)	18.93	98	1900592	24.287	ng		-0.01
Spiked Amount 25.000			Recovery =	97.16%			
6) Bromofluorobenzene (SS3)	23.29	174	796814	25.040	ng		0.00
Spiked Amount 25.000			Recovery =	100.16%			
Target Compounds							Qvalue
7) tert-Butylbenzene	24.88	119	5285	~~0.052~~ ng NR		#	54
8) n-Butylbenzene	25.90	91	15590	0.138 ng		#	63

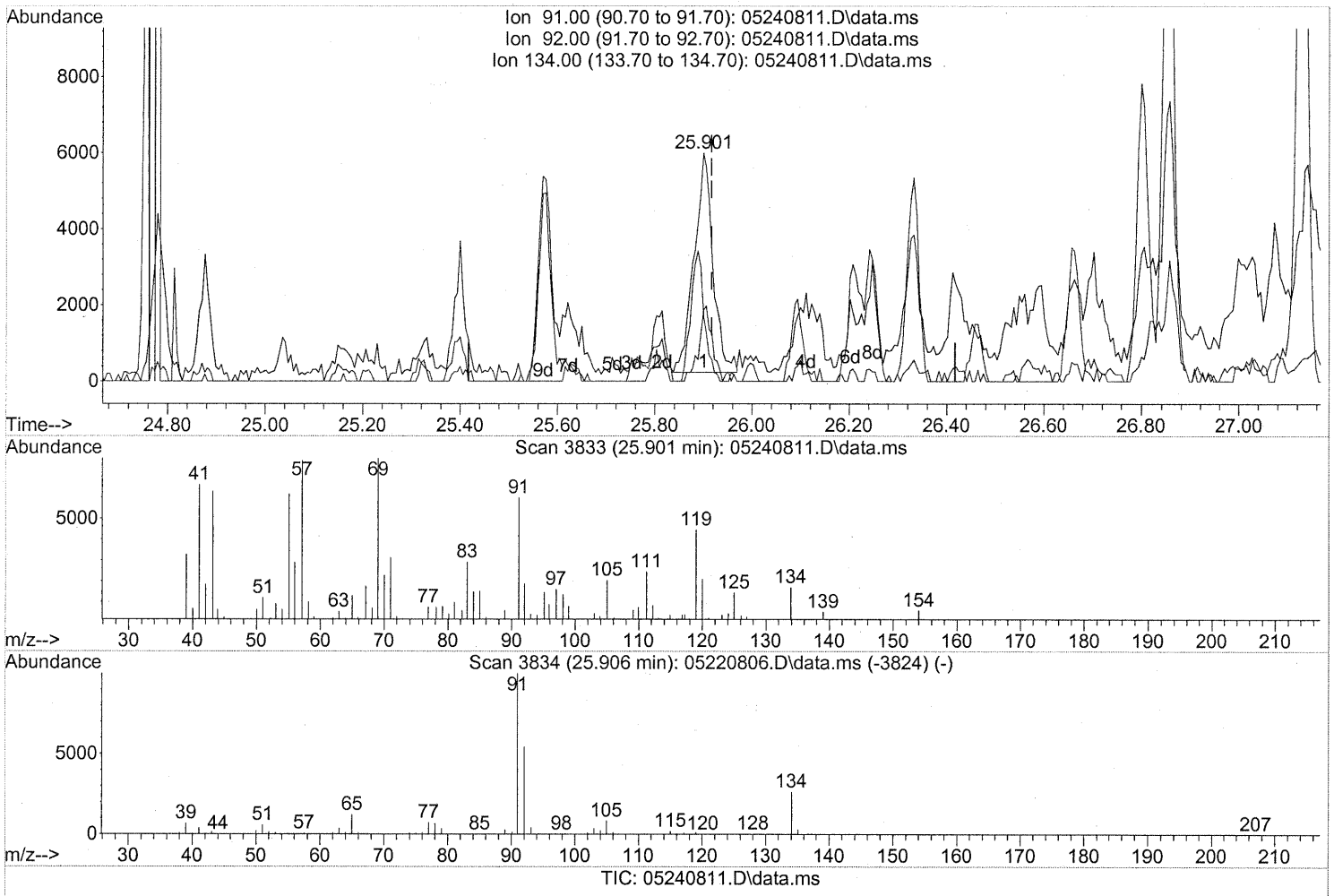
(#) = qualifier out of range (m) = manual integration (+) = signals summed

MM 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240811.D
Acq On : 24 May 2008 13:56
Operator : WA
Sample : P0801442-001 (500ml)
Misc : ENSR SG73B-05 (-3.4, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 25 20:36:35 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240811.D\data.ms

(8) n-Butylbenzene

25.901min (-0.017) 0.14ng

response 15590

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	24.27#
134.00	28.80	42.84#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG39B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00223

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 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)**	**2.0**	1.6	0.16	**0.41**	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**	**0.26**	0.33	0.16	**0.10**	0.12	0.062	**J**
64-17-5	**Ethanol**	**4.4**	16	0.16	**2.3**	8.7	0.087	**J**
67-64-1	**Acetone**	**17**	16	0.24	**7.3**	6.9	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.33	0.16	**0.26**	0.058	0.029	
107-13-1	**Acrylonitrile**	**0.25**	1.6	0.23	**0.12**	0.75	0.11	**J**
75-35-4	**1,1-Dichloroethene**	**10**	0.33	0.16	**2.6**	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.93**	1.6	0.24	**0.31**	0.54	0.080	**J**
75-09-2	**Methylene Chloride**	**0.29**	1.6	0.16	**0.084**	0.47	0.047	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.48**	0.33	0.18	**0.063**	0.043	0.024	
75-15-0	**Carbon Disulfide**	**45**	1.6	0.39	**14**	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**	**4.4**	0.33	0.16	**1.1**	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**	**7.5**	16	0.52	**2.1**	4.6	0.15	**J**
78-93-3	**2-Butanone (MEK)**	**5.1**	1.6	0.16	**1.7**	0.55	0.055	
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**	**370**	0.33	0.19	**75**	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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG39B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00223

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 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	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**	**10**	0.33	0.16	**1.9**	0.060	0.030	
71-43-2	**Benzene**	**3.2**	0.33	0.16	**0.99**	0.10	0.051	
56-23-5	**Carbon Tetrachloride**	**1.3**	0.33	0.16	**0.21**	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**	**0.64**	0.33	0.16	**0.095**	0.049	0.024	
79-01-6	**Trichloroethene**	**240**	0.33	0.16	**44**	0.061	0.030	
123-91-1	**1,4-Dioxane**	**0.90**	1.6	0.20	**0.25**	0.45	0.055	**J**
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.060	
142-82-5	n-Heptane	ND	1.6	0.21	ND	0.40	0.051	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	1.6	0.18	**0.067**	0.40	0.045	**J**
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**	**1.0**	1.6	0.16	**0.28**	0.43	0.043	**J**
591-78-6	**2-Hexanone**	**0.54**	1.6	0.25	**0.13**	0.40	0.061	**J**
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	ND	1.6	0.16	ND	0.35	0.035	
127-18-4	**Tetrachloroethene**	**25**	0.33	0.16	**3.6**	0.048	0.024	
108-90-7	**Chlorobenzene**	**0.18**	0.33	0.17	**0.039**	0.071	0.036	**J**

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: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG39B-05** CAS Sample ID: P0801442-002
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00223

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**	**0.38**	1.6	0.20	**0.087**	0.38	0.047	**J**
179601-23-1	**m,p-Xylenes**	**1.5**	1.6	0.42	**0.35**	0.38	0.098	**J**
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.6	0.25	ND	0.38	0.058	
95-47-6	**o-Xylene**	**2.4**	1.6	0.21	**0.54**	0.38	0.047	
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	ND	1.6	0.17	ND	0.33	0.034	
622-96-8	4-Ethyltoluene	ND	1.6	0.19	ND	0.33	0.038	
108-67-8	1,3,5-Trimethylbenzene	ND	1.6	0.20	ND	0.33	0.040	
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.049	
95-63-6	**1,2,4-Trimethylbenzene**	**0.34**	1.6	0.22	**0.069**	0.33	0.046	**J**
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.054	
541-73-1	1,3-Dichlorobenzene	ND	0.33	0.20	ND	0.054	0.034	
106-46-7	**1,4-Dichlorobenzene**	**43**	0.33	0.18	**7.2**	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)	ND	1.6	0.21	ND	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**	**1.1**	0.65	0.24	**0.20**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**2.9**	0.33	0.29	**0.27**	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**0.22**	0.65	0.16	**0.039**	0.12	0.030	**J**

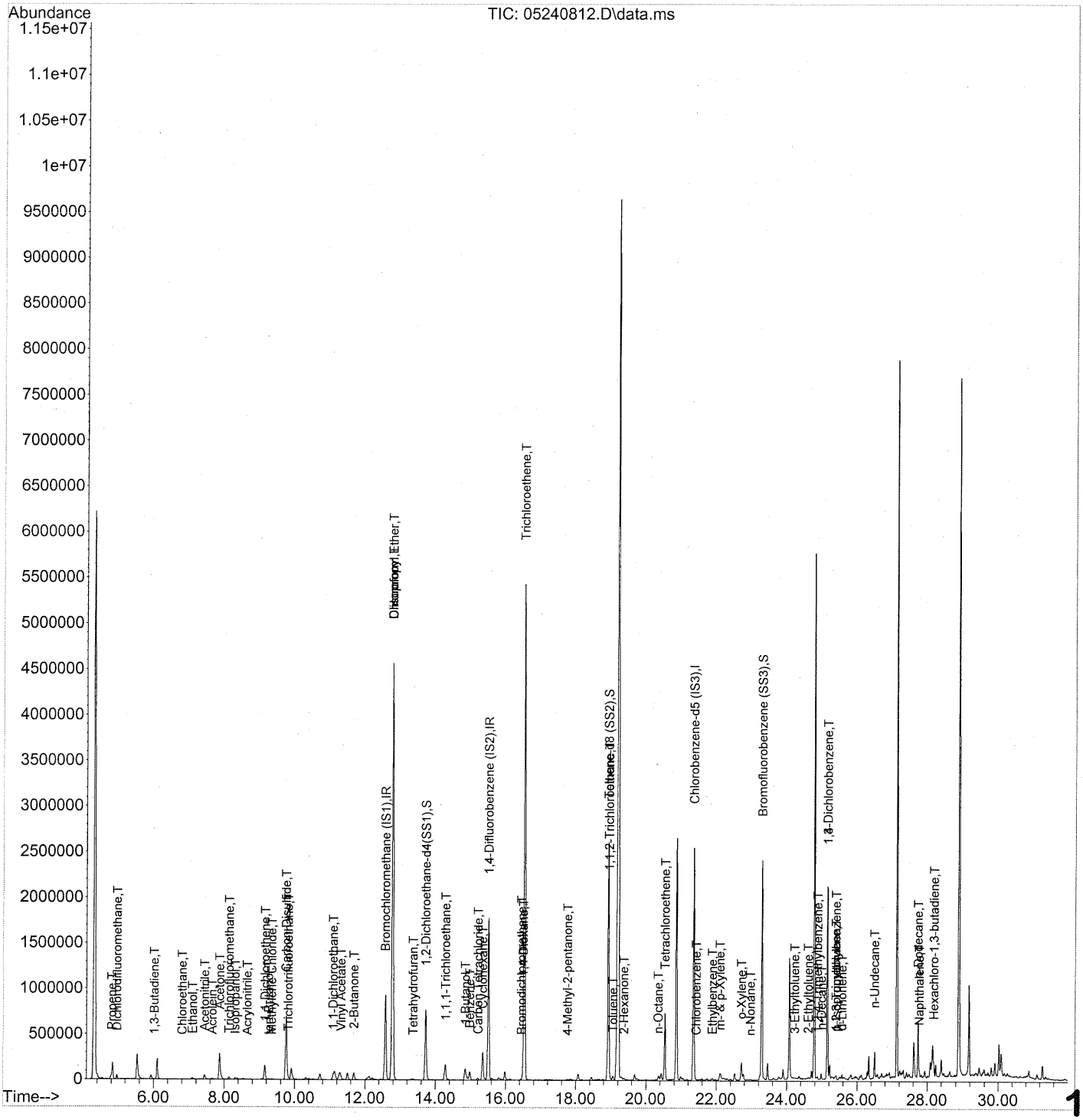
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: Re Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	483630	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2073700	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	990343	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	791887	23.631	ng		0.00
Spiked Amount 25.000			Recovery =	94.52%			
57) Toluene-d8 (SS2)	18.93	98	2179102	24.500	ng		0.00
Spiked Amount 25.000			Recovery =	98.00%			
73) Bromofluorobenzene (SS3)	23.29	174	901118	24.915	ng		0.00
Spiked Amount 25.000			Recovery =	99.64%			
Target Compounds							Qvalue
2) Propene	4.81	42	13498	0.353	ng	#	48
3) Dichlorodifluoromethane	4.97	85	43705	0.621	ng		99
4) Chloromethane	5.29	50	1927	N.D.			
5) Freon 114	5.54	135	915	N.D.			
6) Vinyl Chloride	5.74	62	777	N.D.			
7) 1,3-Butadiene	6.02	54	1917	0.056	ng	#	63
8) Bromomethane	6.48	94	774	N.D.			
9) Chloroethane	6.81	64	1751	0.081	ng		84
10) Ethanol	7.10	45	34240m	1.347	ng		
11) Acetonitrile	7.44	41	82867	1.127	ng		98
12) Acrolein	7.66	56	11202	0.617	ng		96
13) Acetone	7.87	58	137521m	5.282	ng		
14) Trichlorofluoromethane	8.14	101	26883	0.445	ng		97
15) Isopropanol	8.32	45	36627	0.441	ng		96
16) Acrylonitrile	8.65	53	3109	~~0.078 ng~~		NR	95
17) 1,1-Dichloroethene	9.16	96	82726	3.113	ng	#	79
18) tert-Butanol	9.27	59	20231m	0.286	ng		
19) Methylene Chloride	9.35	84	2596	0.089	ng		96
20) Allyl Chloride	9.57	41	178	N.D.			
21) Trichlorotrifluoroethane	9.81	151	4027	0.147	ng		95
22) Carbon Disulfide	9.76	76	1523965	13.803	ng		99
23) trans-1,2-Dichloroethene	10.80	61	364	N.D.			
24) 1,1-Dichloroethane	11.10	63	68217	1.351	ng		91
25) Methyl tert-Butyl Ether	11.21	73	530	N.D.			
26) Vinyl Acetate	11.31	86	11081	2.303	ng	#	1
27) 2-Butanone	11.68	72	29818	1.569	ng	#	91
28) cis-1,2-Dichloroethene	12.35	61	403	N.D.			
29) Diisopropyl Ether	12.78	87	518574	~~22.272 ng~~		NR #	1
30) Ethyl Acetate	12.71	61	55	N.D.			
31) n-Hexane	12.70	57	1225	N.D.			

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MDH 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	4939324	112.000 ng		100
34) Tetrahydrofuran	13.37	72	2060	0.113 ng	#	19
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.77	62	56	N.D.		
38) 1,1,1-Trichloroethane	14.29	97	150946	3.196 ng		96
39) Isopropyl Acetate	14.97	61	528	N.D.		
40) 1-Butanol	14.85	56	128269	4.500 ng		89
41) Benzene	14.98	78	105569	0.972 ng		99
42) Carbon Tetrachloride	15.21	117	16962	0.406 ng		97
43) Cyclohexane	15.34	84	17757	0.420 ng	#	1
44) tert-Amyl Methyl Ether	15.88	73	3224	N.D.		
45) 1,2-Dichloropropane	16.20	63	711	N.D.		
46) Bromodichloromethane	16.45	83	7211	0.196 ng		96
47) Trichloroethene	16.53	130	2414496	72.490 ng		100
48) 1,4-Dioxane	16.50	88	5682	0.277 ng		97
49) Isooctane	16.61	57	2587	N.D.		
50) Methyl Methacrylate	16.90	100	58	N.D.		
51) n-Heptane	16.98	71	626	N.D.		
52) cis-1,3-Dichloropropene	17.84	75	127	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	2427	0.084 ng		81
54) trans-1,3-Dichloropropene	18.44	75	119	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	192887	~~7.189 ng~~	NR#	7
58) Toluene	19.06	91	38867	0.321 ng		98
59) 2-Hexanone	19.37	43	13787	0.165 ng	#	71
60) Dibromochloromethane	19.73	129	53	N.D.		
61) 1,2-Dibromoethane	19.94	107	64	N.D.		
62) Butyl Acetate	20.19	43	1382	N.D.		
63) n-Octane	~~20.352~~	57	2147	~~0.080 ng~~	NR	79
64) Tetrachloroethene	20.54	166	270722	7.567 ng		100
65) Chlorobenzene	21.42	112	4491	0.055 ng		98
66) Ethylbenzene	21.88	91	16071	0.116 ng		91
67) m- & p-Xylene	22.10	91	42849	0.462 ng		89
68) Bromoform	22.22	173	54	N.D.		
69) Styrene	22.58	104	1687	N.D.		
70) o-Xylene	22.71	91	72527	0.725 ng		96
71) n-Nonane	22.97	43	5085	0.072 ng	#	70
72) 1,1,2,2-Tetrachloroethane	22.66	83	438	N.D.		
74) Cumene	23.46	105	1801	N.D.		
75) alpha-Pinene	23.96	93	1462	N.D.		
76) n-Propylbenzene	24.10	91	2145	N.D.		
77) 3-Ethyltoluene	24.23	105	7831	0.055 ng		89
78) 4-Ethyltoluene	24.27	105	4156	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	5086	N.D.		

MA 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	1949	N.D. ✓			
81) 2-Ethyltoluene	24.61	105	10319	0.072	ng		91
82) 1,2,4-Trimethylbenzene	24.88	105	12663	0.104	ng		87
83) n-Decane	24.98	57	23213	0.347	ng		72
84) Benzyl Chloride	25.04	91	3045	N.D. ✓			
85) 1,3-Dichlorobenzene	25.16	146	972420	~~2.784~~	ng	UR	99
86) 1,4-Dichlorobenzene	25.16	146	972420	3.188	ng		99
87) sec-Butylbenzene	25.21	105	1731	N.D. ✓			
88) p-Isopropyltoluene	25.40	119	6743	~~0.053~~	ng	#	68
89) 1,2,3-Trimethylbenzene	25.40	105	7467	0.063	ng		91
90) 1,2-Dichlorobenzene	25.57	146	2717	N.D. ✓			
91) d-Limonene	25.57	68	12628	0.261	ng		93
92) 1,2-Dibromo-3-Chloropr...	26.11	157	618	N.D. ✓			
93) n-Undecane	26.50	57	101739	1.452	ng		80
94) 1,2,4-Trichlorobenzene	27.62	180	1006	N.D. ✓			
95) Naphthalene	27.77	128	52059	0.324	ng		100
96) n-Dodecane	27.73	57	195562	2.807	ng		83
97) Hexachloro-1,3-butadiene	28.19	225	31280	0.889	ng		98

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

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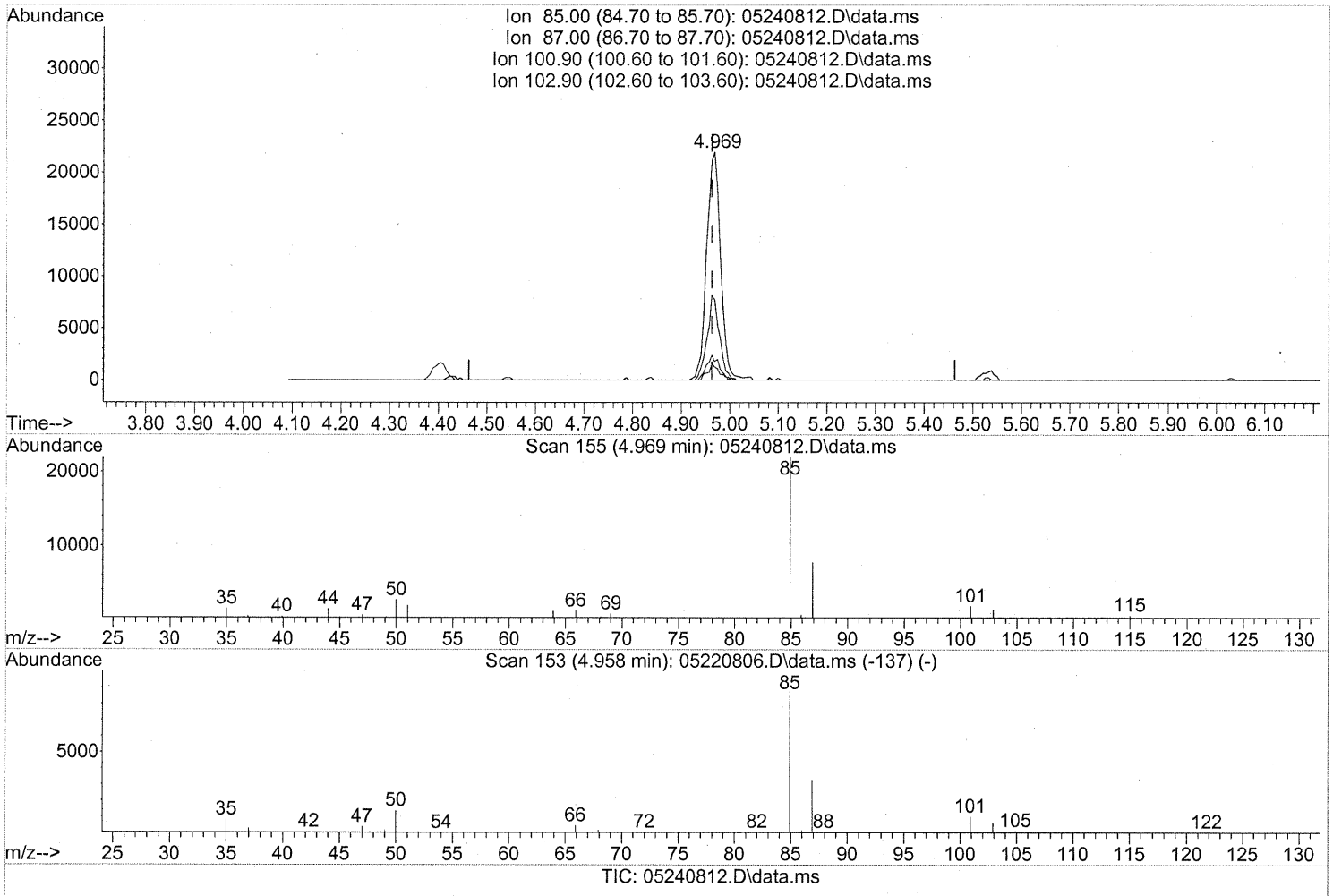
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.62ng

response 43705

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.33
100.90	9.30	9.80
102.90	6.00	5.63

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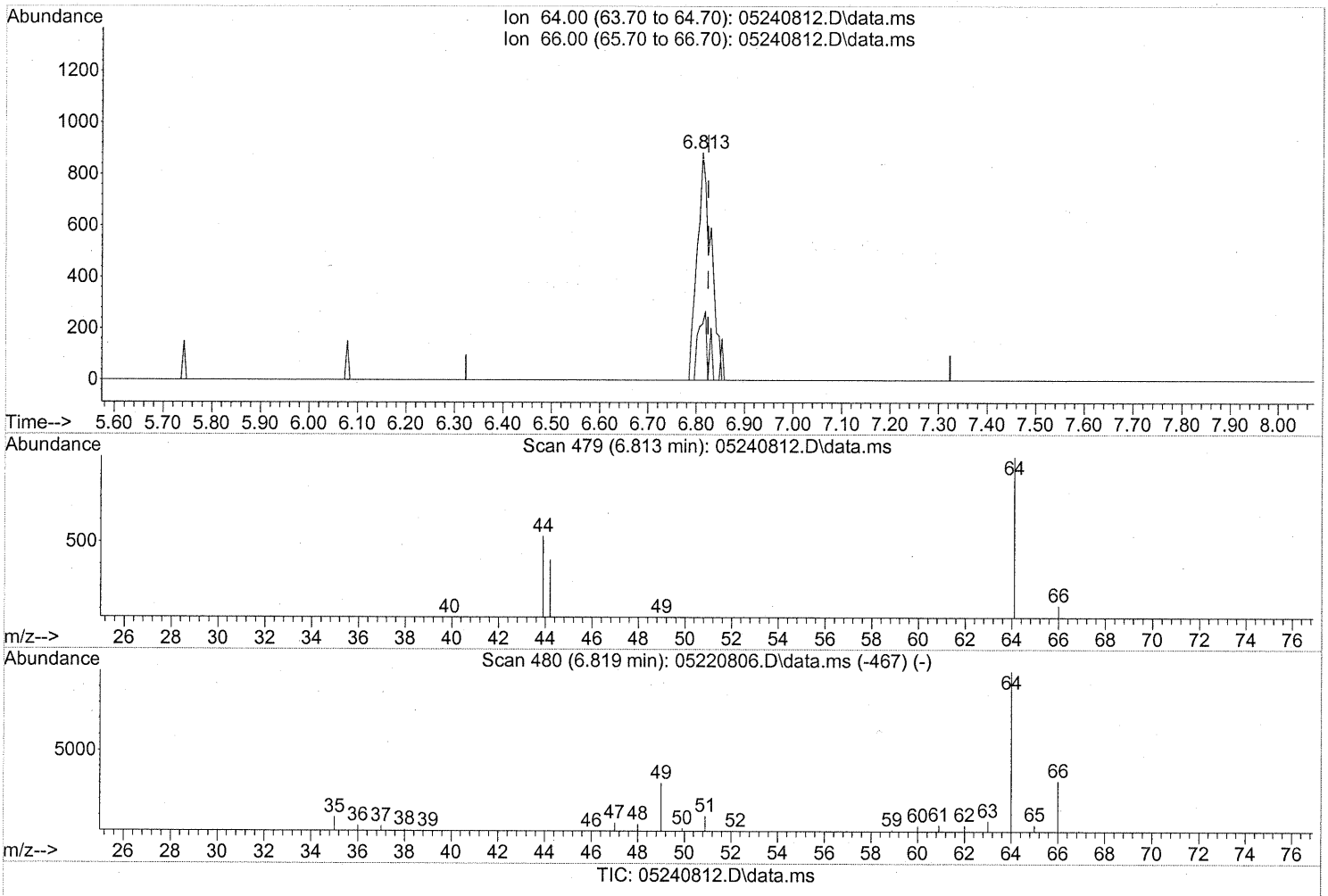
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(9) Chloroethane (T)

6.813min (-0.011) 0.08ng

response 1751

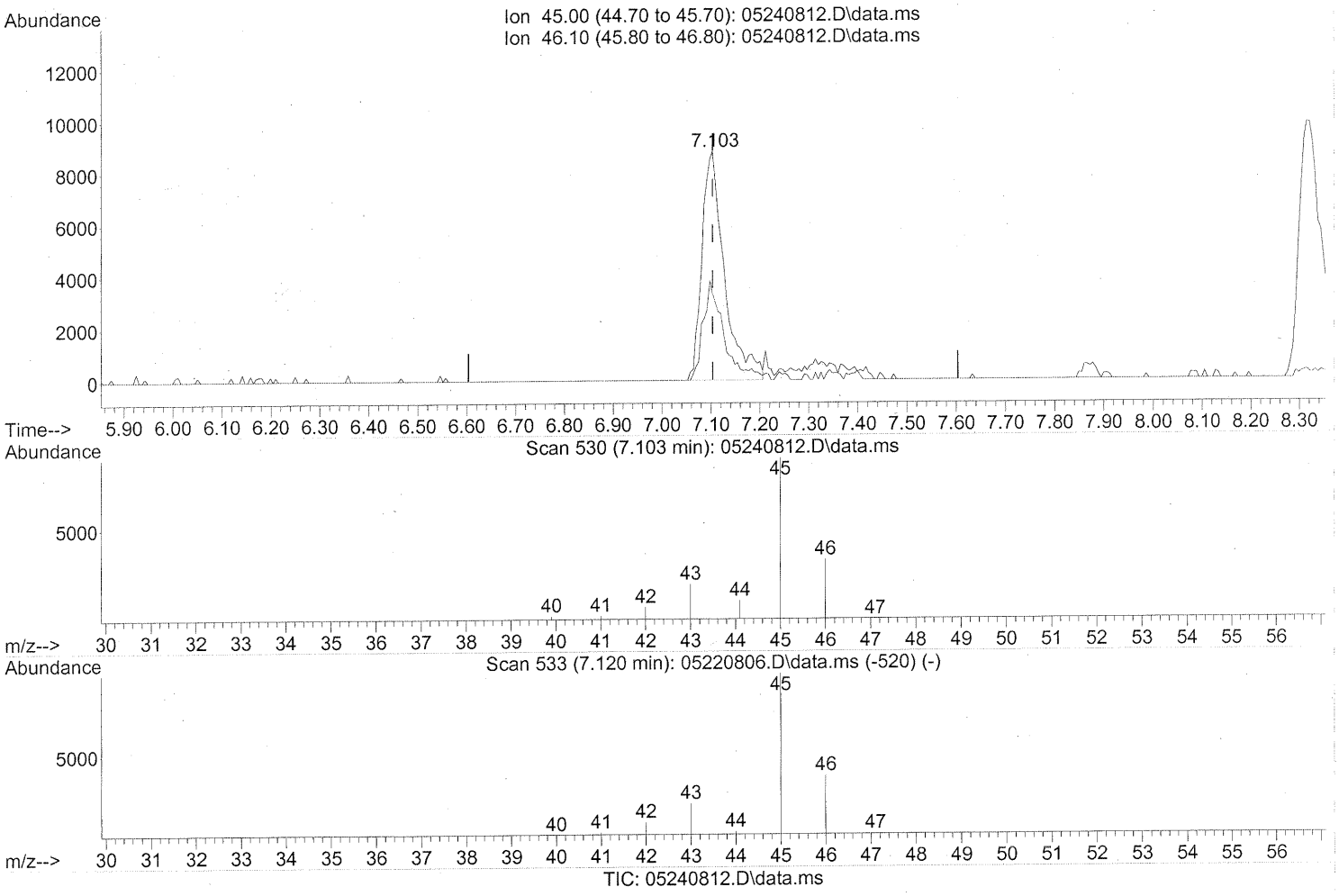
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	20.90
0.00	0.00	0.00
0.00	0.00	0.00

156

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801422-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:03:50 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 1.11ng

response 28113

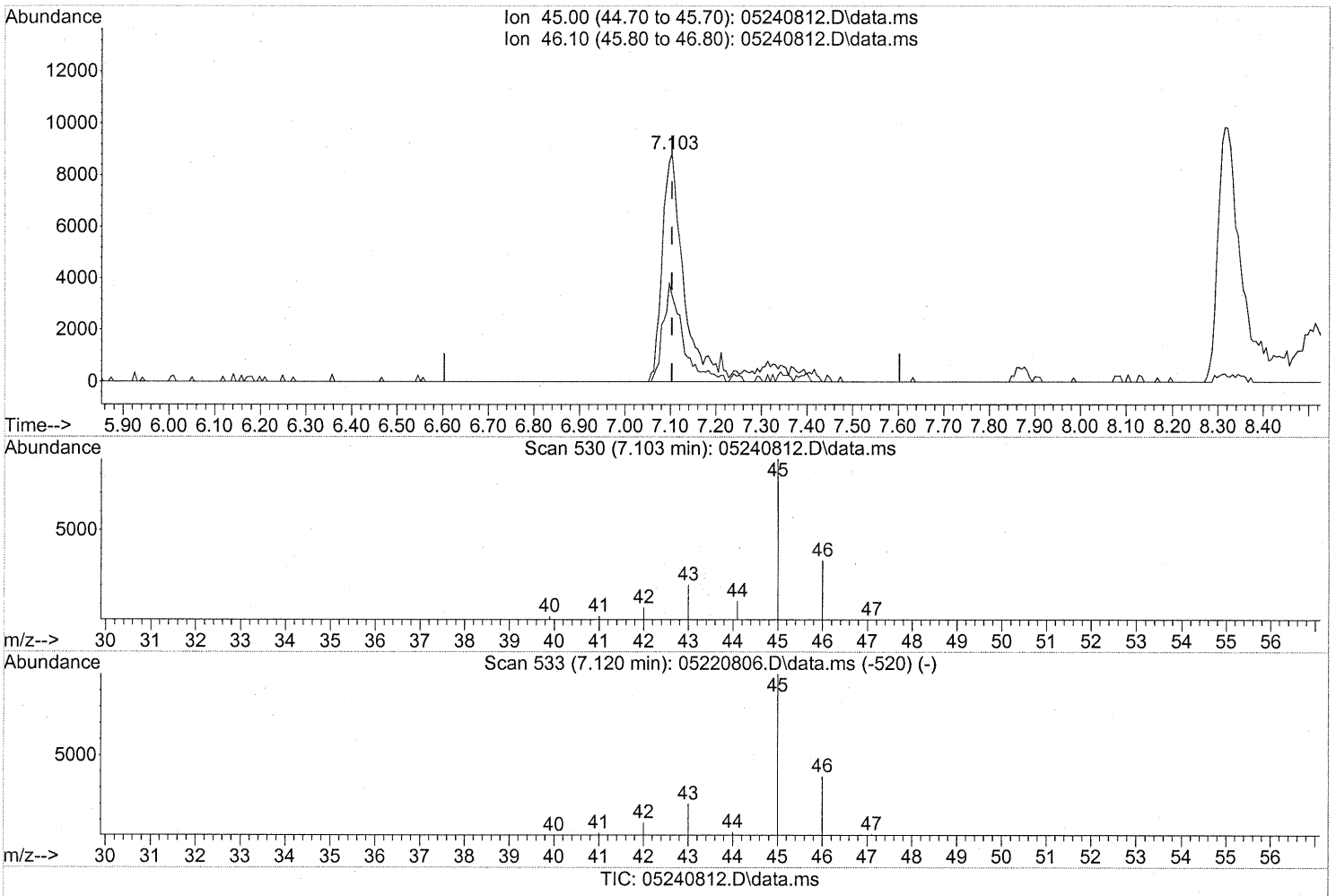
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	40.44
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 1.35ng m

response 34240

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.20
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing
DM 5/29/08

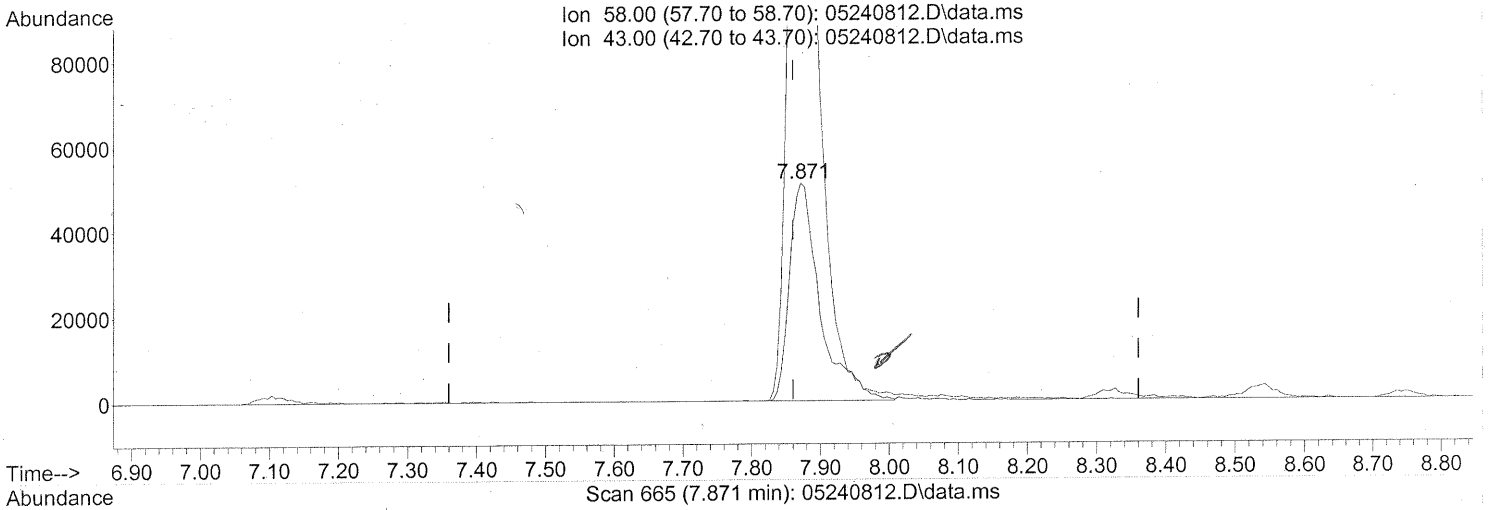
WA 5/30/08

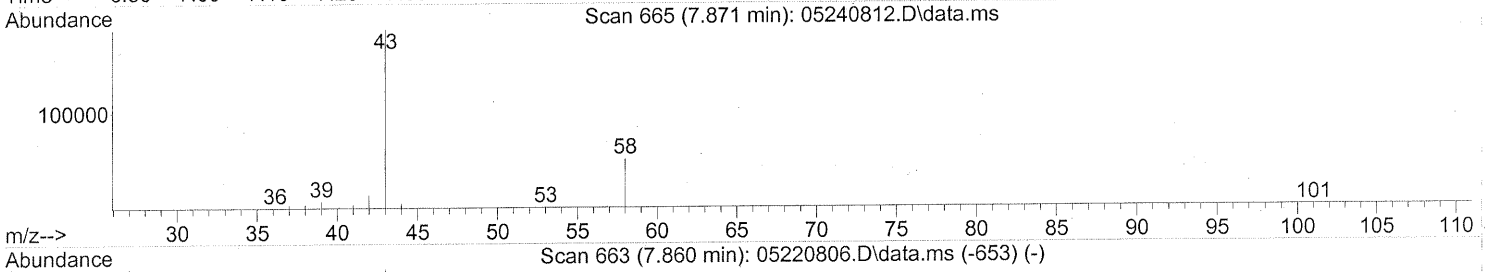
158

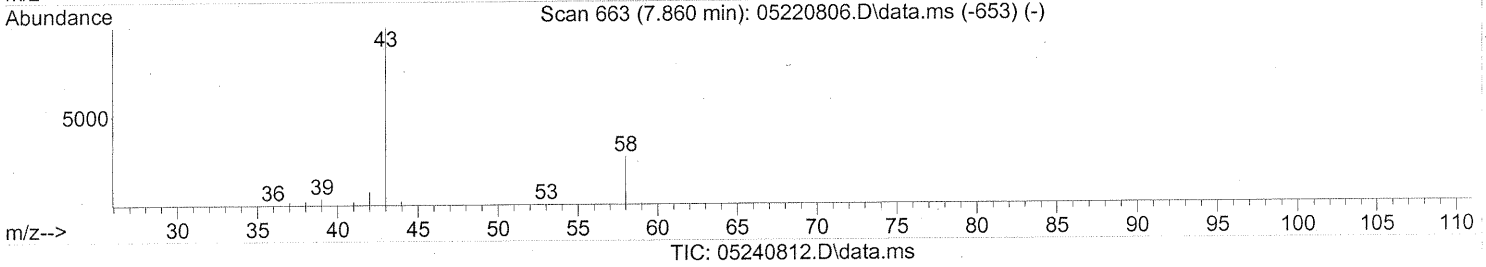
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801422-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:03:50 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240812.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 6.06ng

response 157683

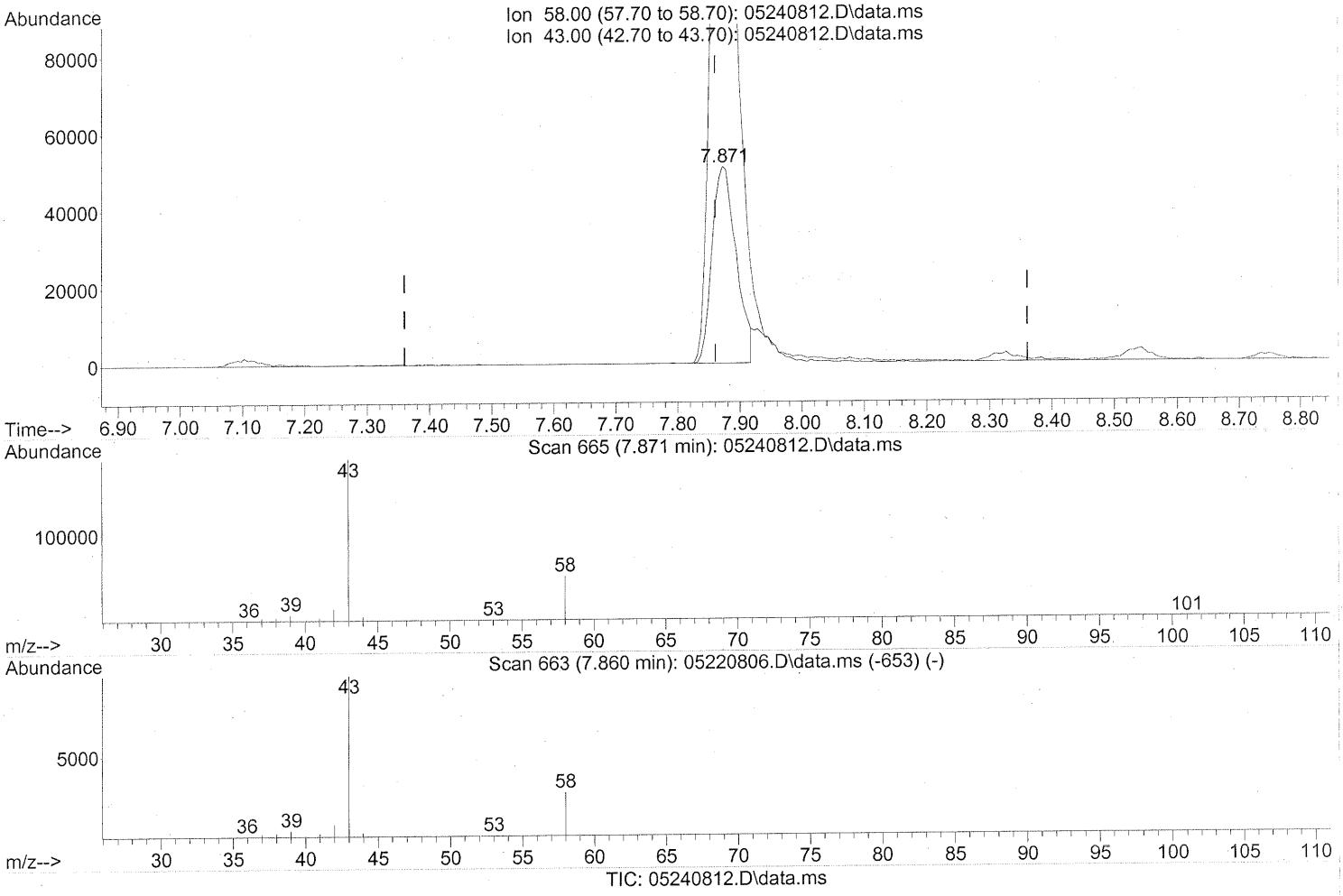
interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	341.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801422-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:03:50 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 5.28ng m

response 137521

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	391.75#
0.00	0.00	0.00
0.00	0.00	0.00

w/o shoulder

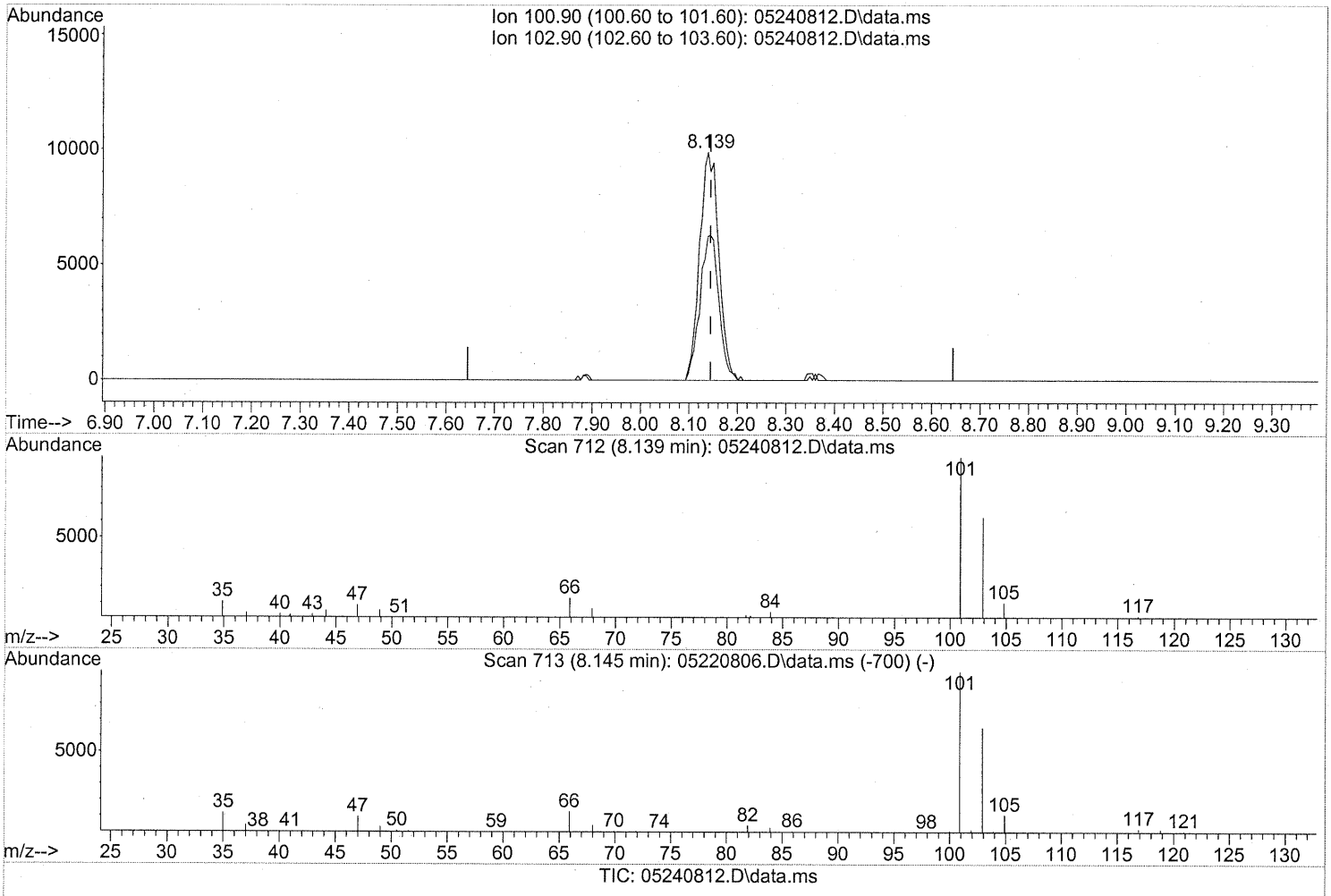
DA 5/29/08

WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 0.45ng

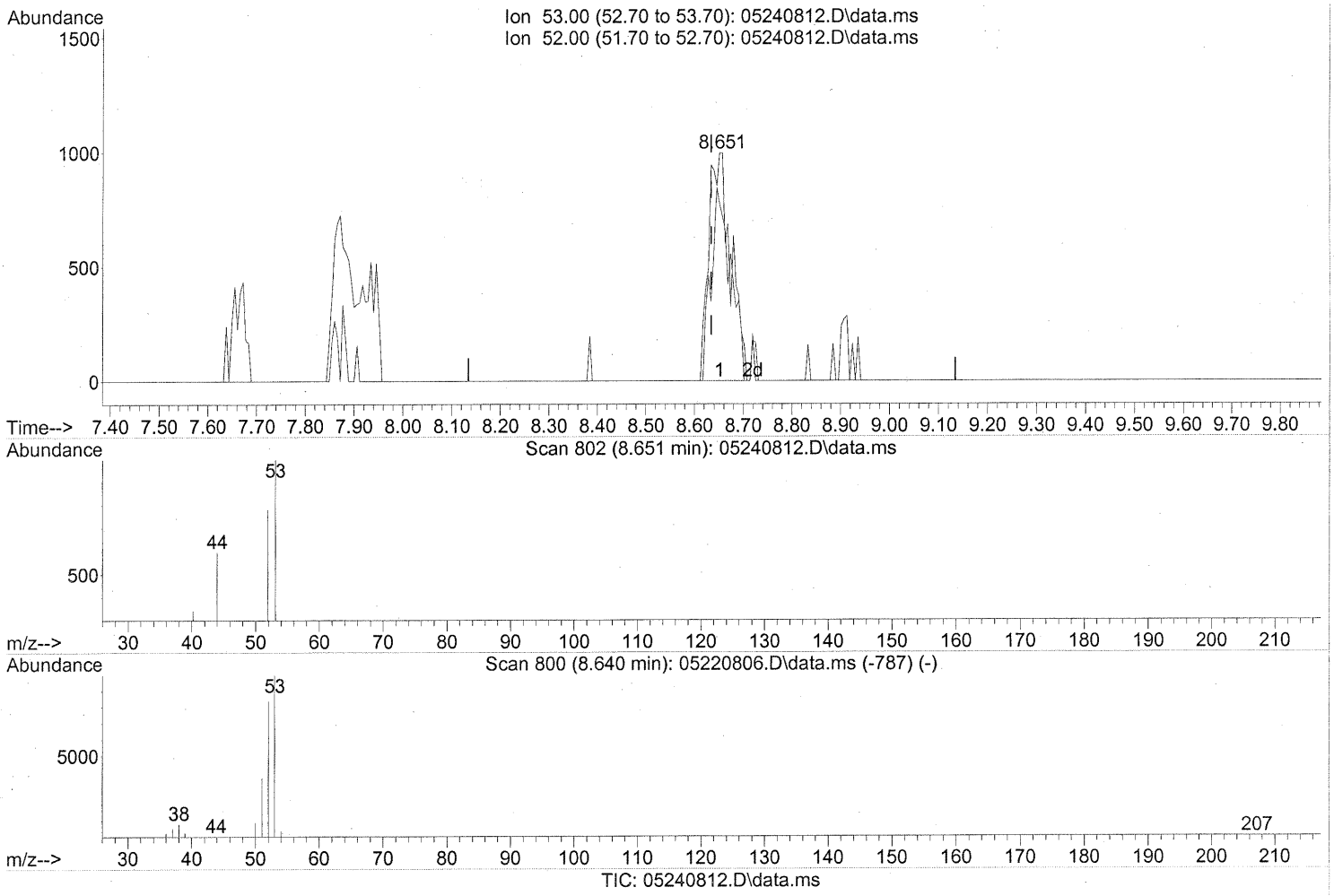
response 26883

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	62.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 2:37 pm
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.651min (+0.017) 0.08ng

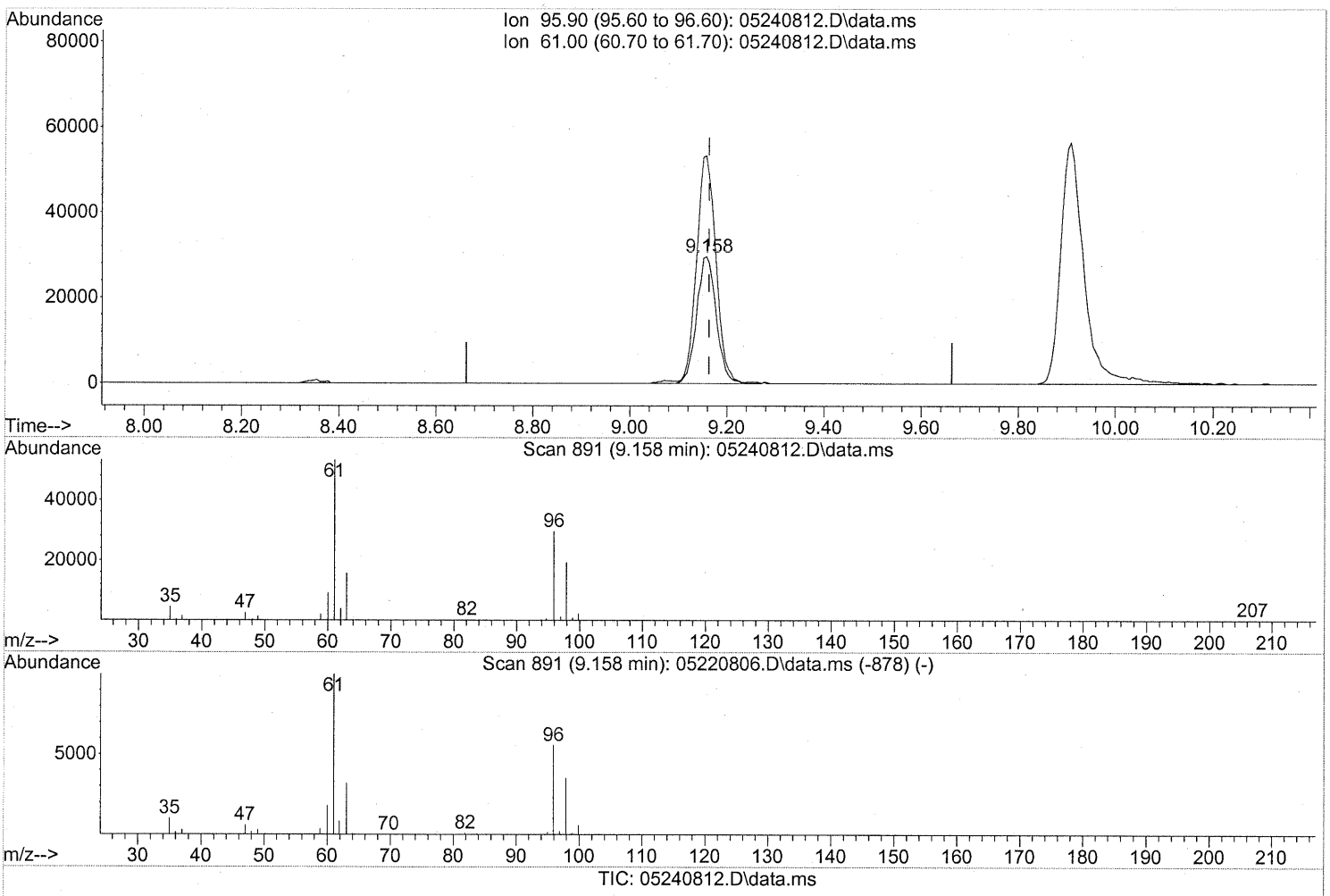
response 3109

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	78.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 3.11ng

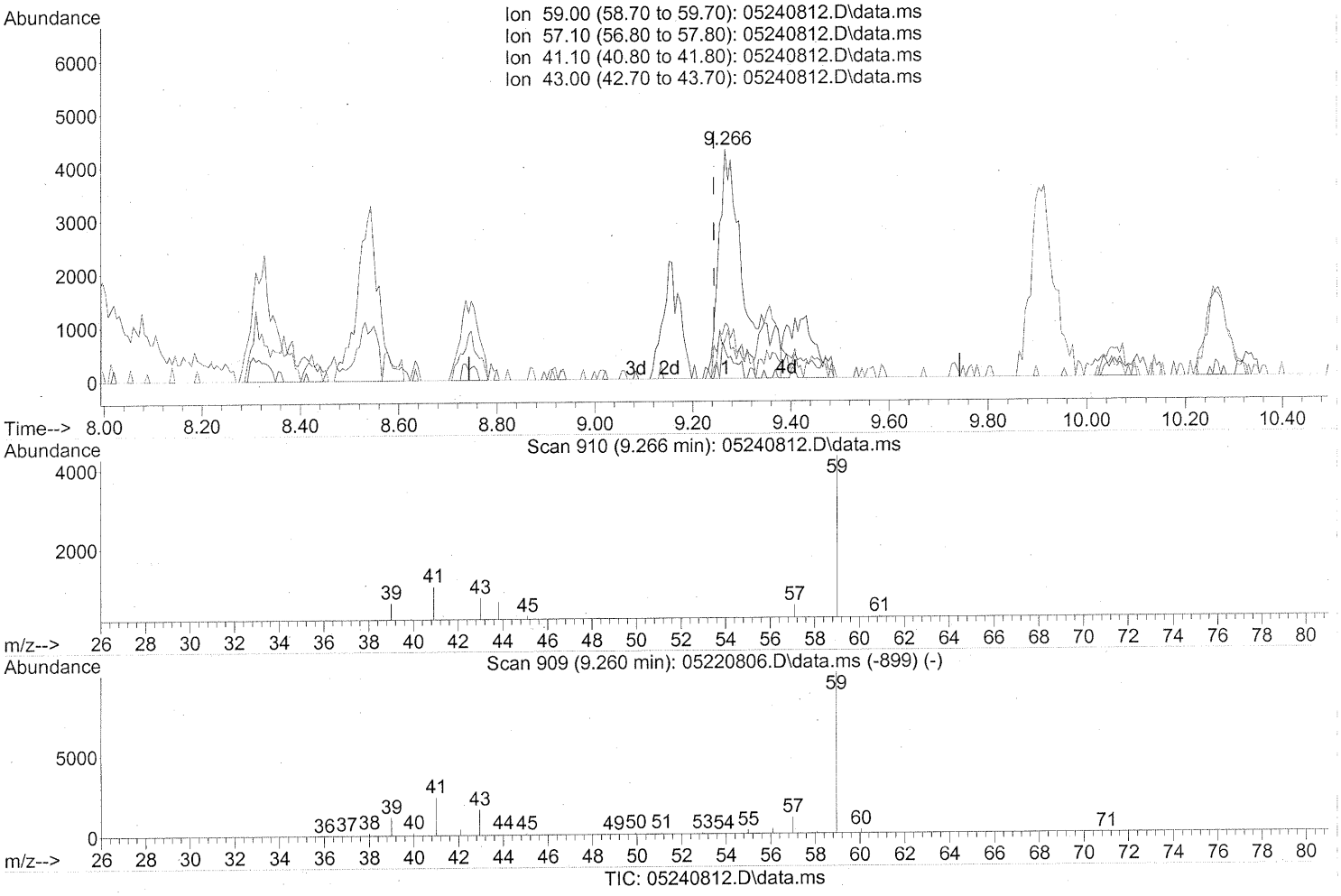
response 82726

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	177.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801422-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:03:50 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.22ng

response 15676

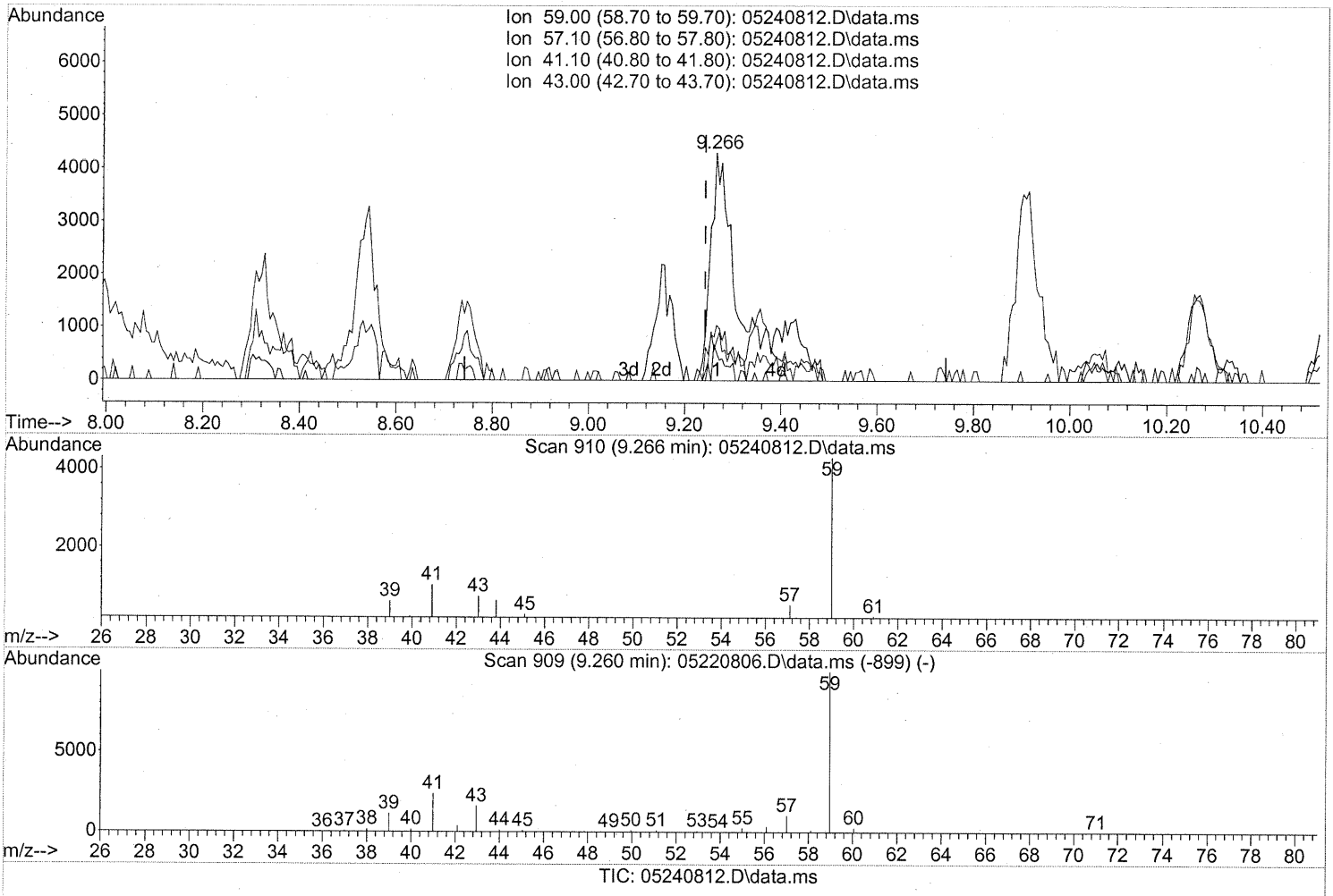
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.46
41.10	20.10	21.64
43.00	12.30	15.67

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.29ng m

response 20231

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.78
41.10	20.10	16.77
43.00	12.30	12.14

int. whole peaks

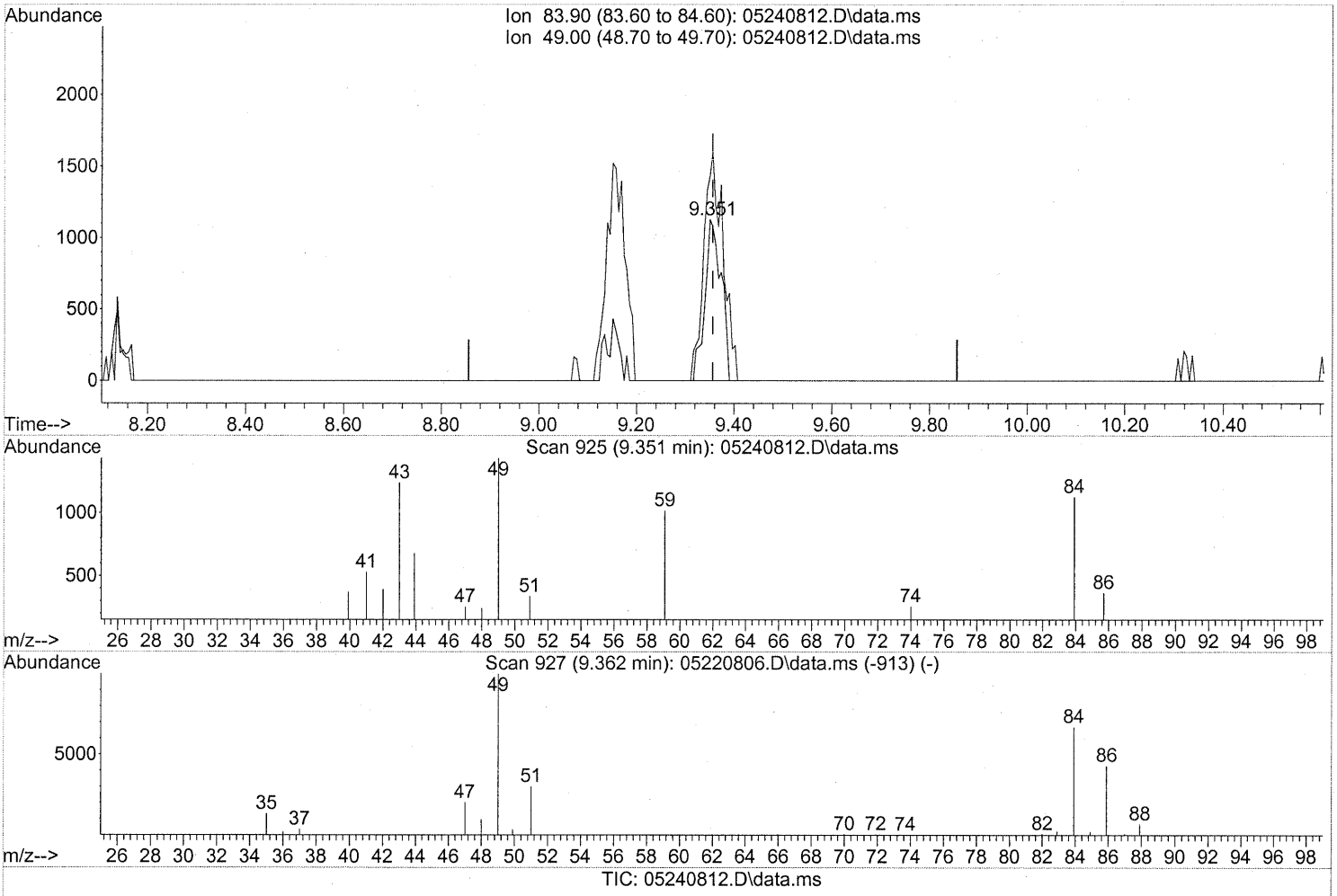
5/29/08

WAS 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(19) Methylene Chloride (T)

9.351min (-0.006) 0.09ng

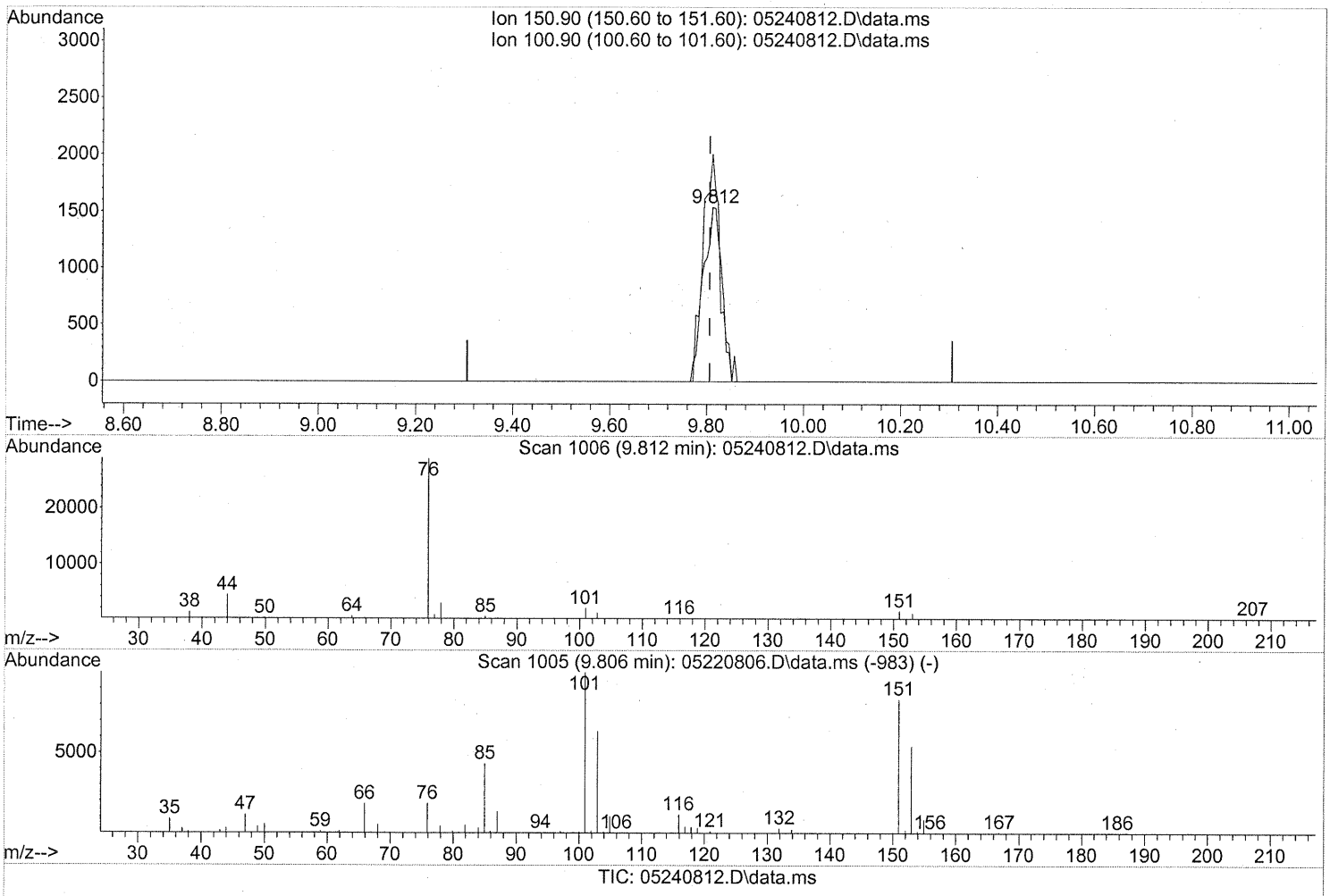
response 2596

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	167.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.15ng

response 4027

before

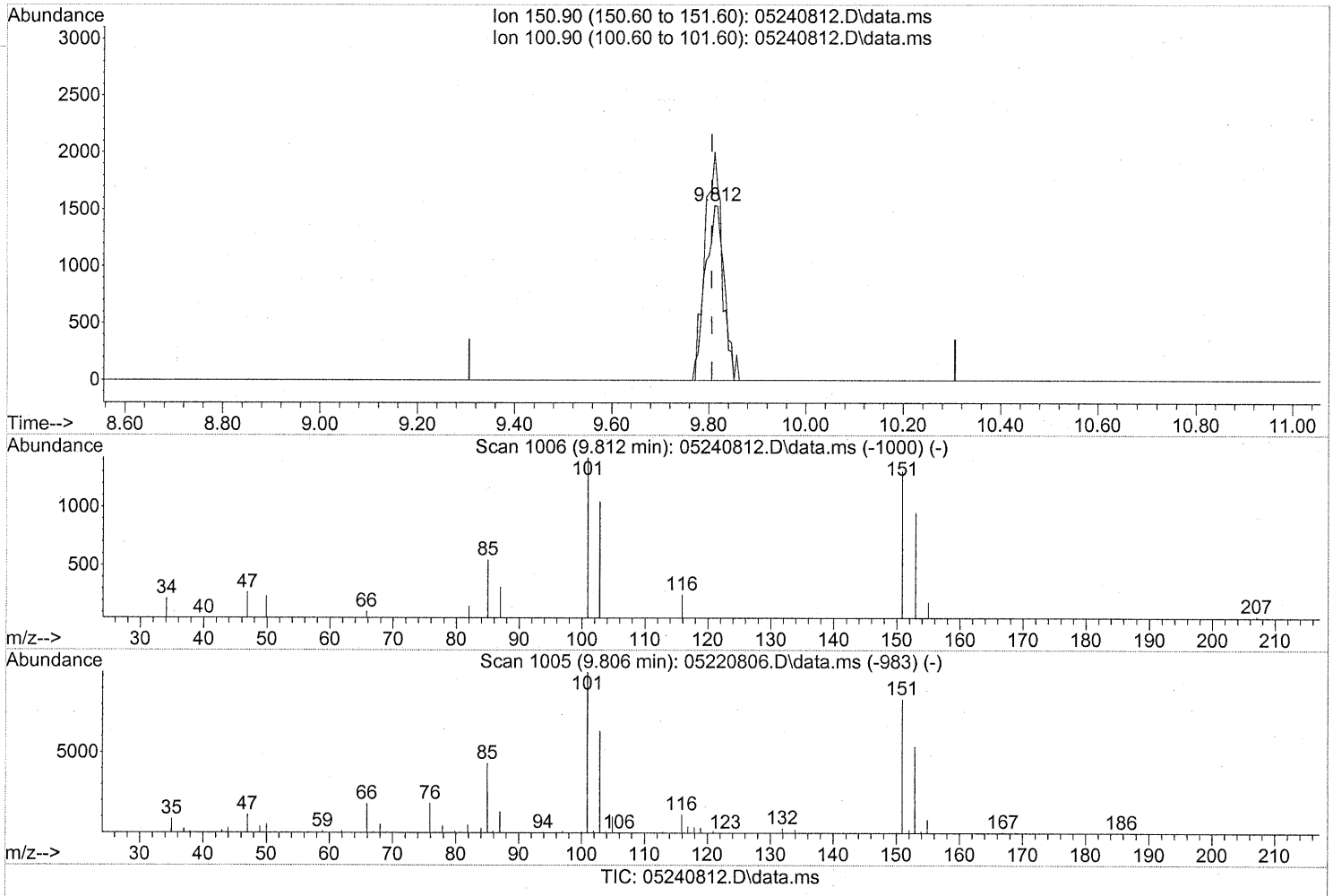
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.31
0.00	0.00	0.00
0.00	0.00	0.00

167

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.15ng

response 4027

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.31
0.00	0.00	0.00
0.00	0.00	0.00

after subsfr.

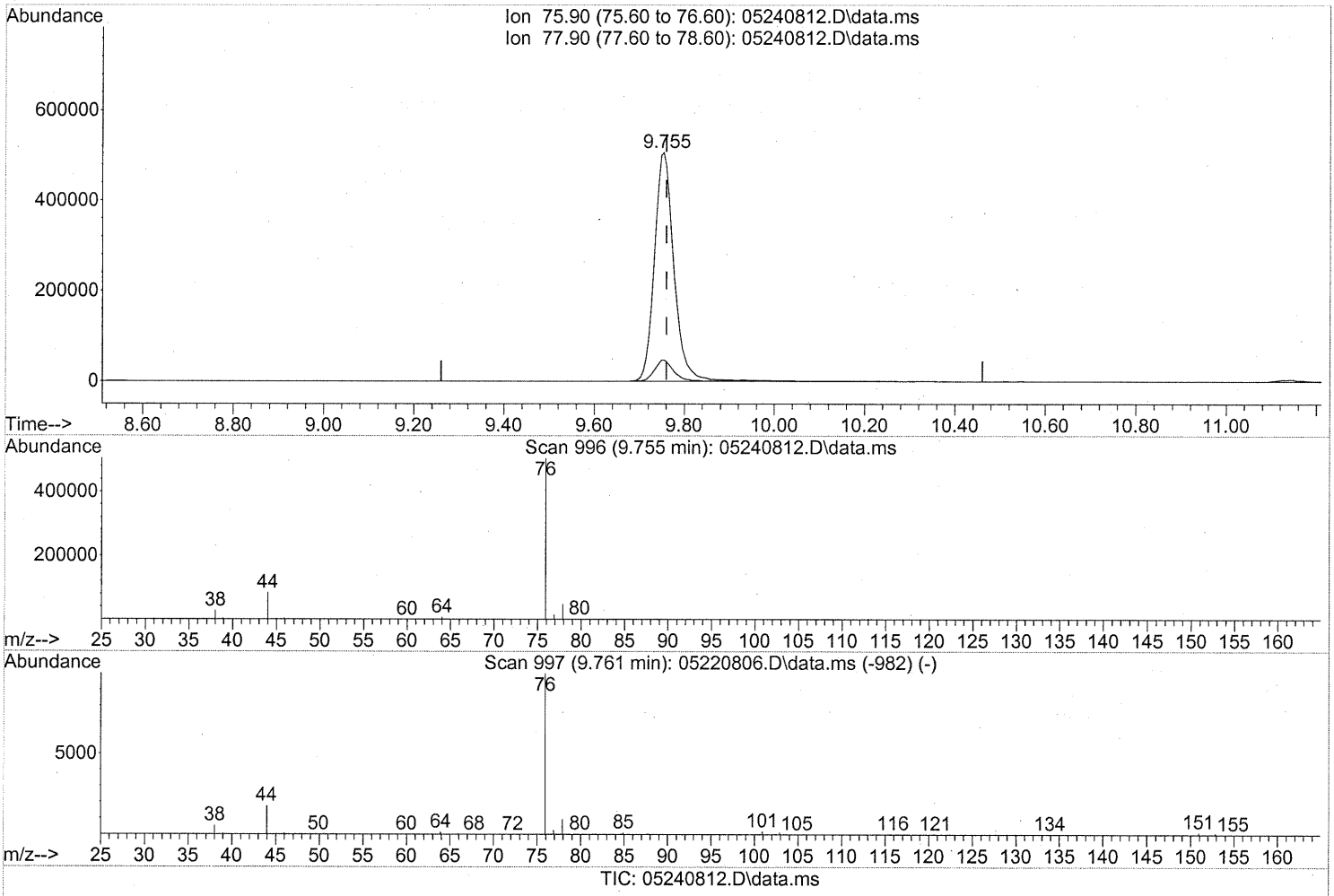
5/29/08

5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 13.80ng

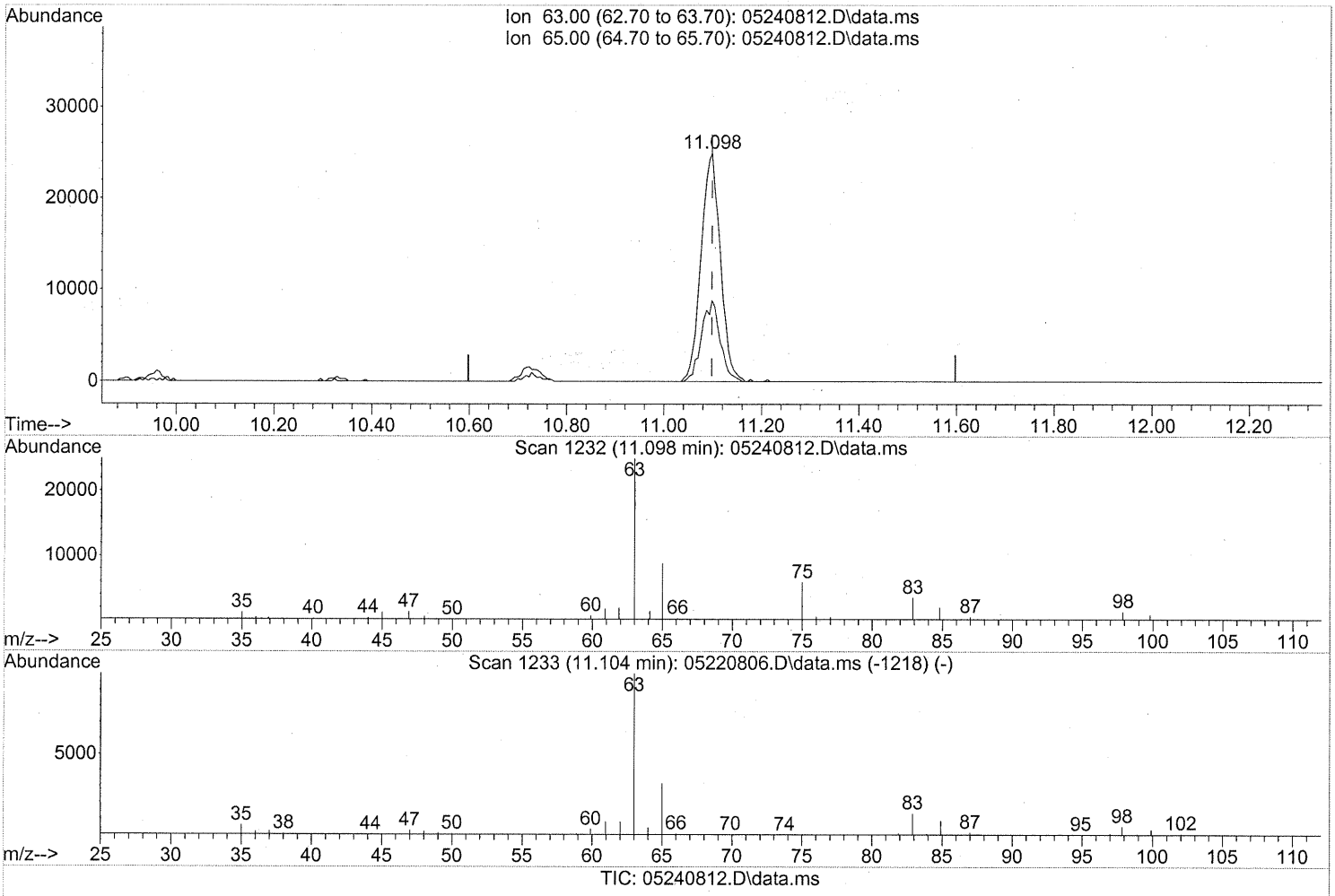
response 1523965

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(24) 1,1-Dichloroethane (T)

11.098min (-0.000) 1.35ng

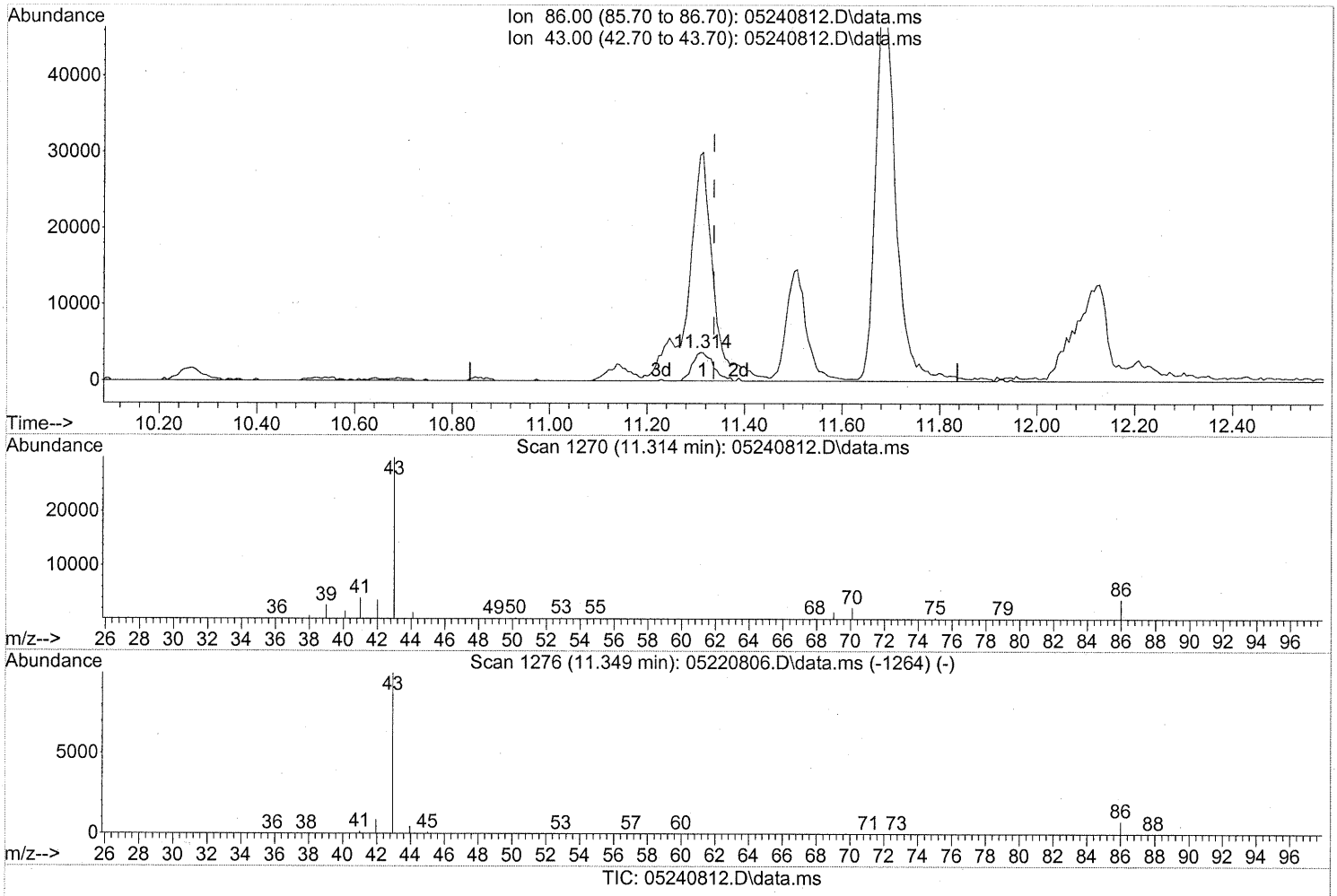
response 68217

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	33.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 2.30ng

response 11081

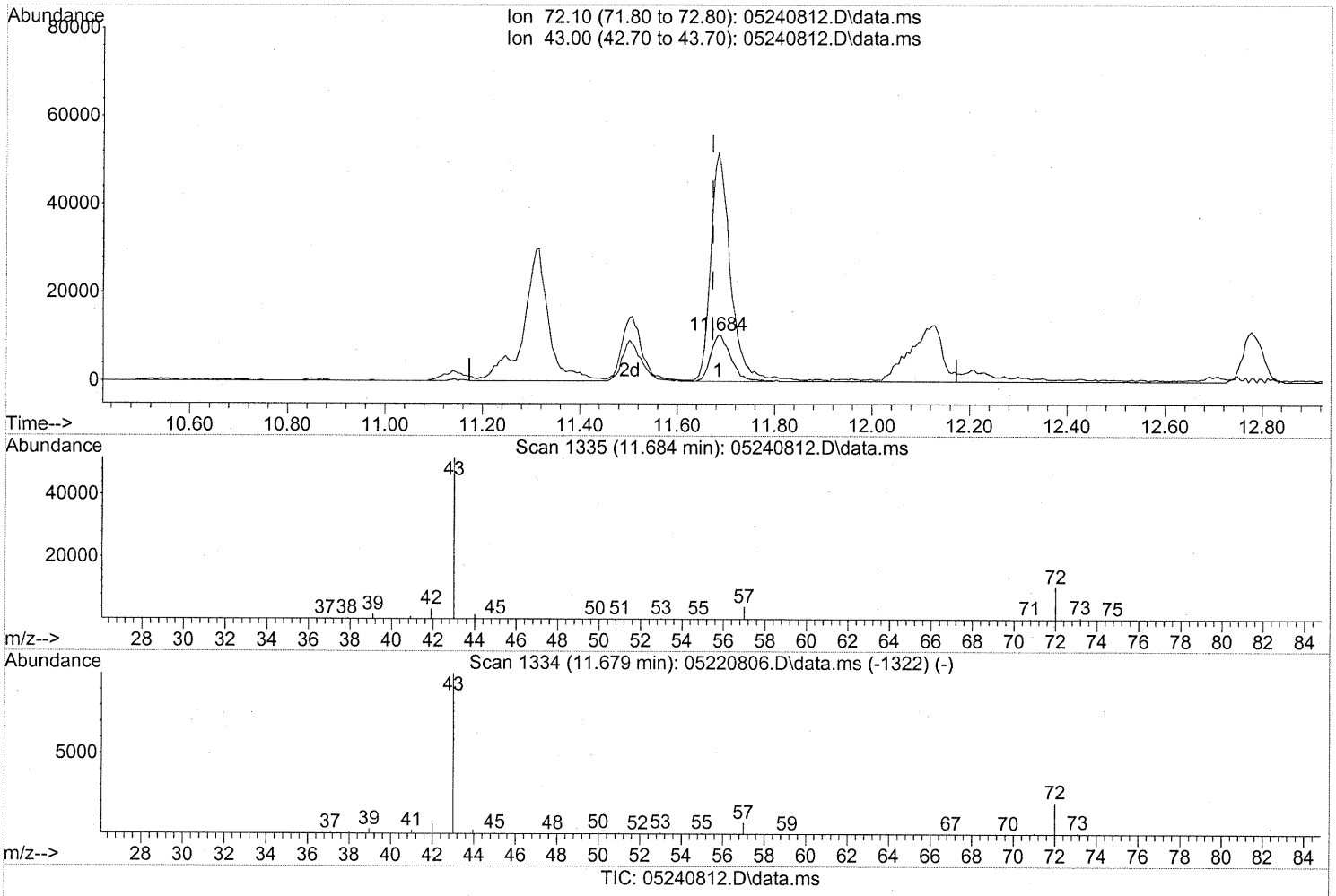
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	816.00#
0.00	0.00	0.00
0.00	0.00	0.00

171

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(27) 2-Butanone (T)

11.684min (+0.011) 1.57ng

response 29818

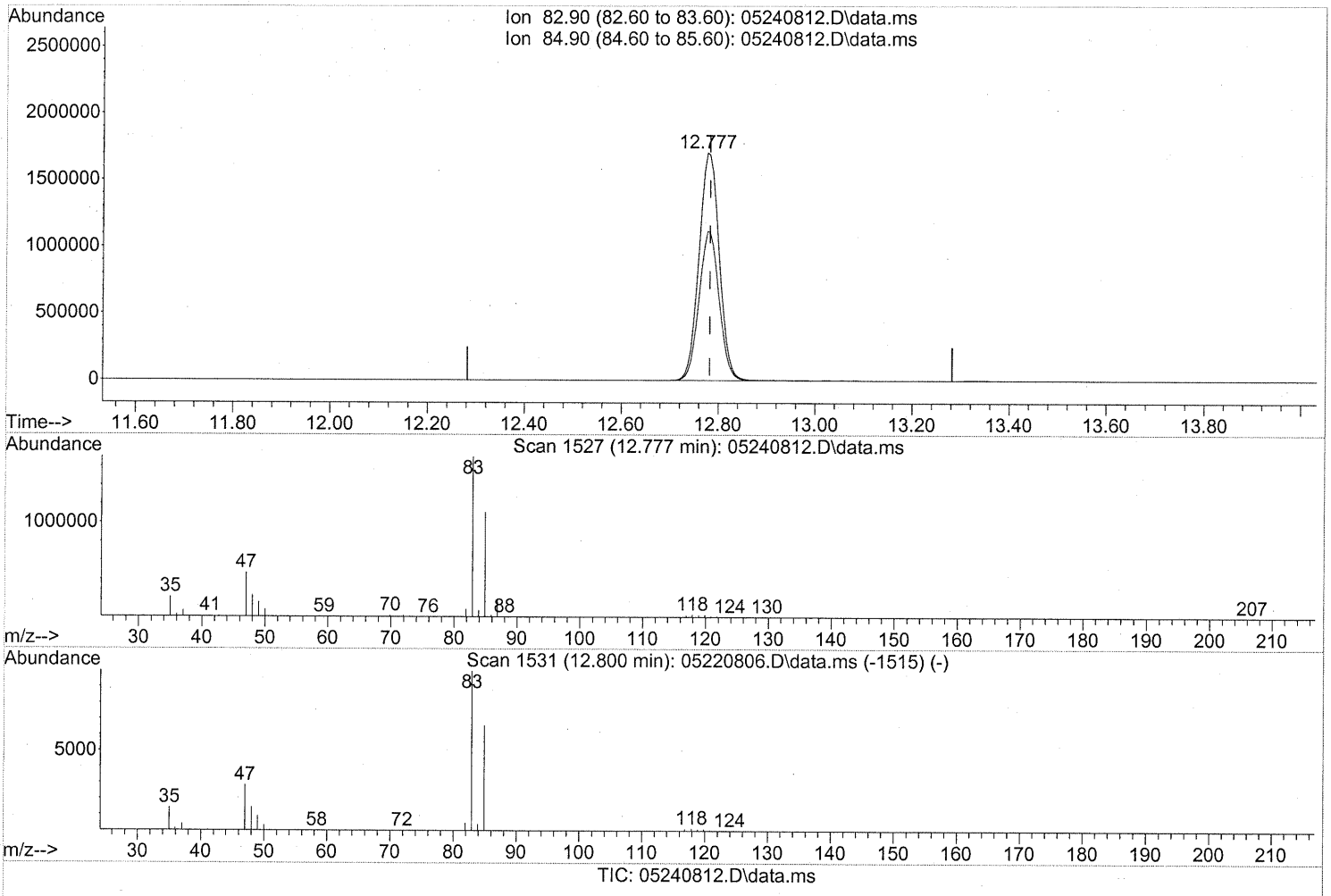
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	481.62#
0.00	0.00	0.00
0.00	0.00	0.00

172

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(32) Chloroform (T)

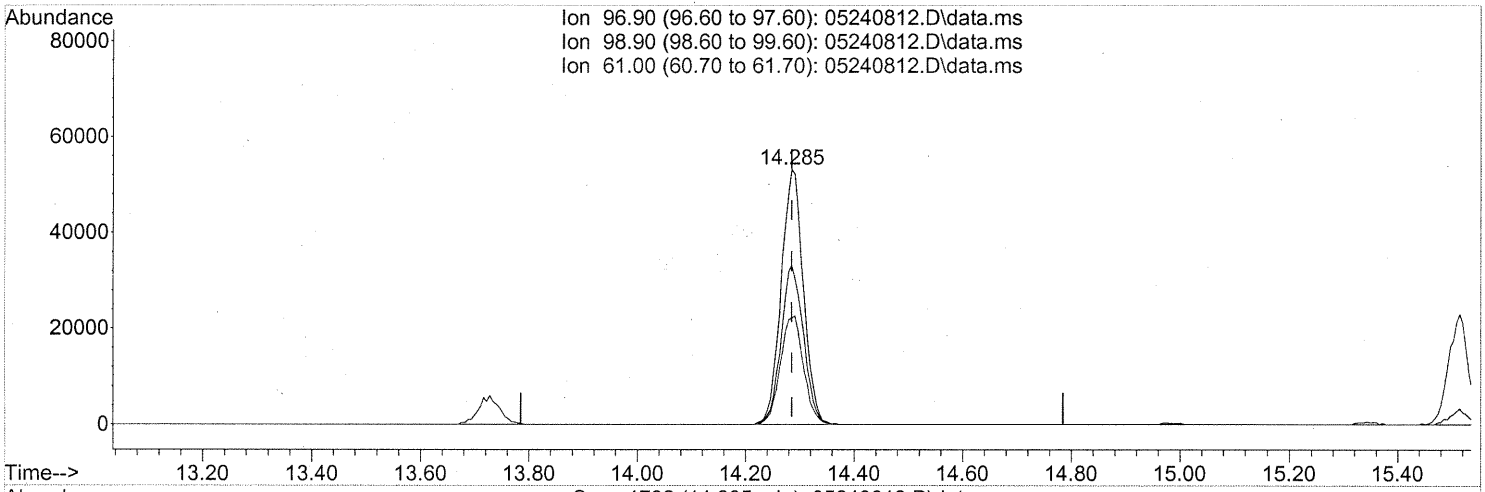
12.777min (-0.006) 112.00ng

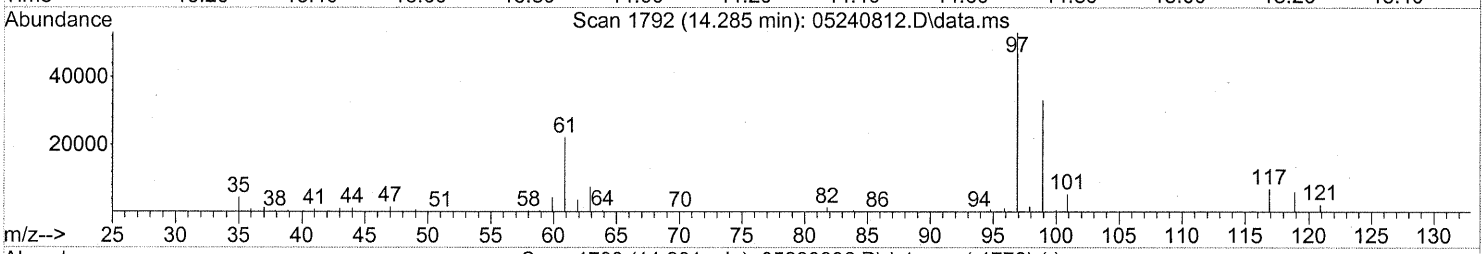
response 4939324

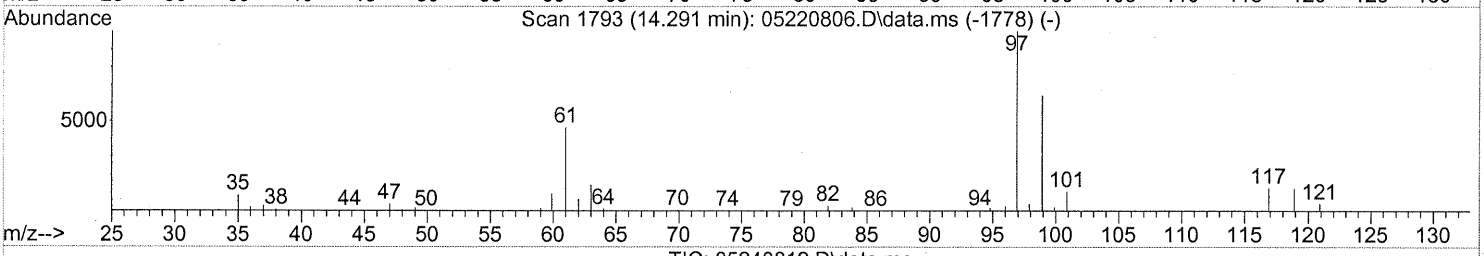
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.68
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240812.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 3.20ng

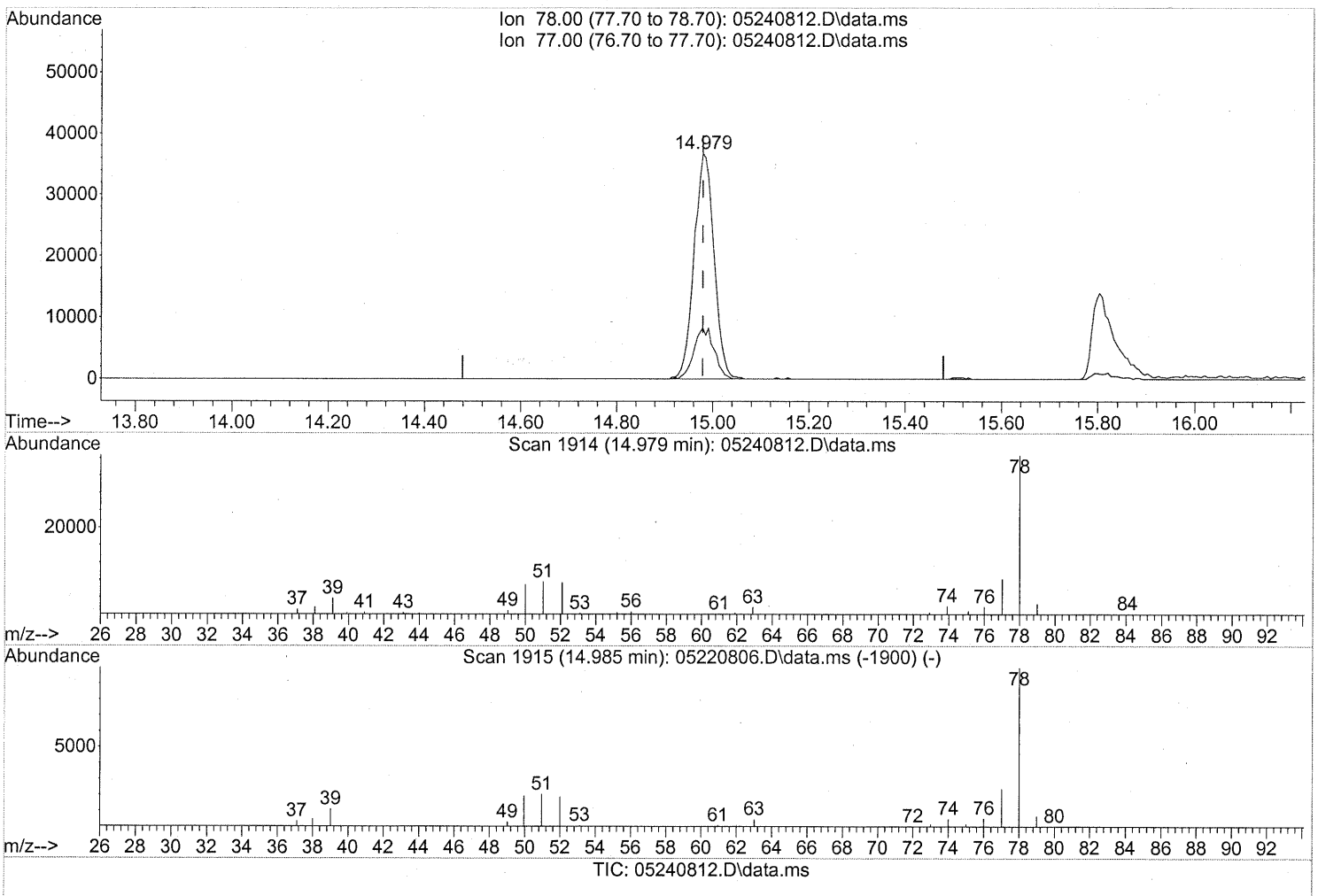
response 150946

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	62.94
61.00	50.50	44.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 0.97ng

response 105569

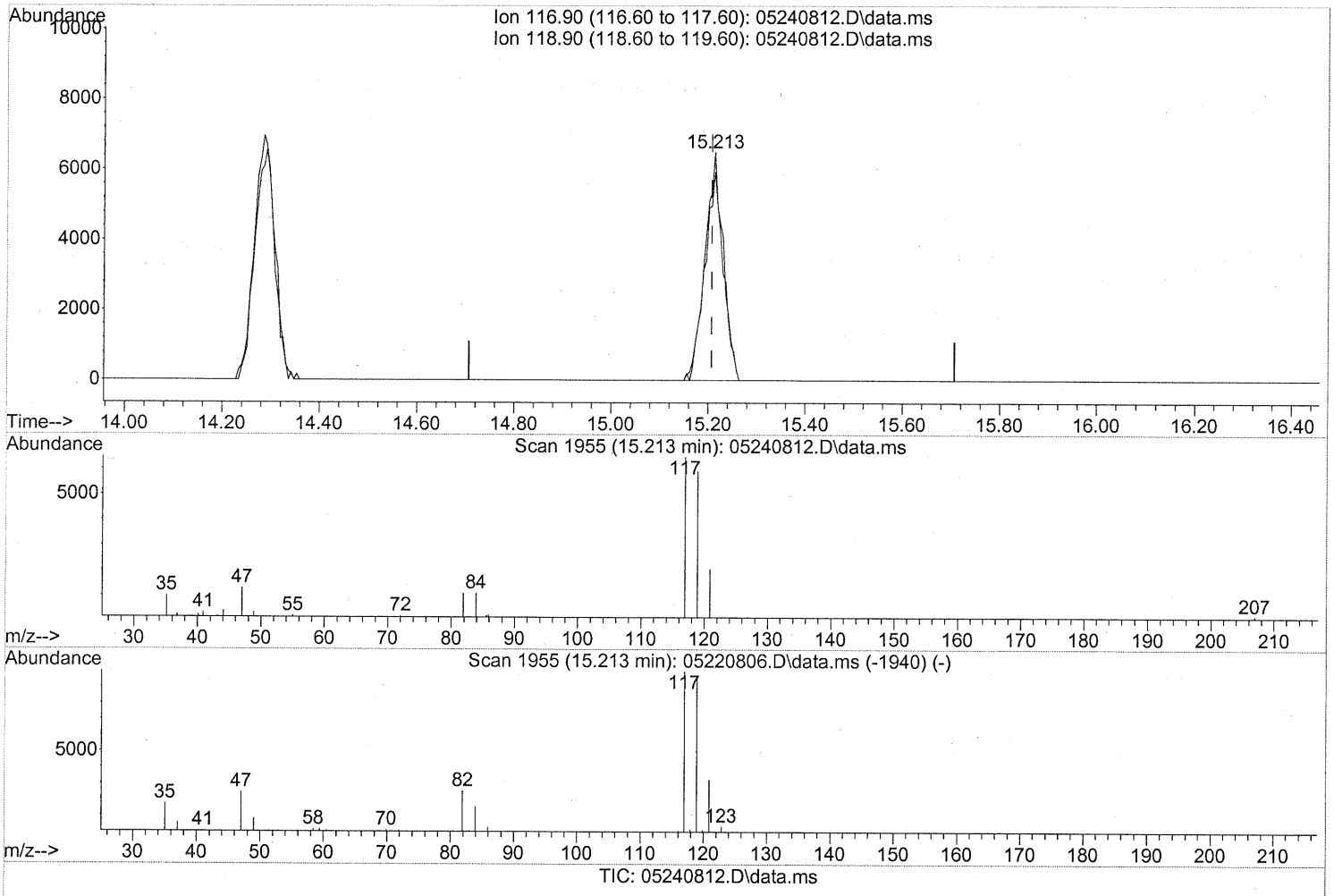
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.78
0.00	0.00	0.00
0.00	0.00	0.00

175

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.41ng

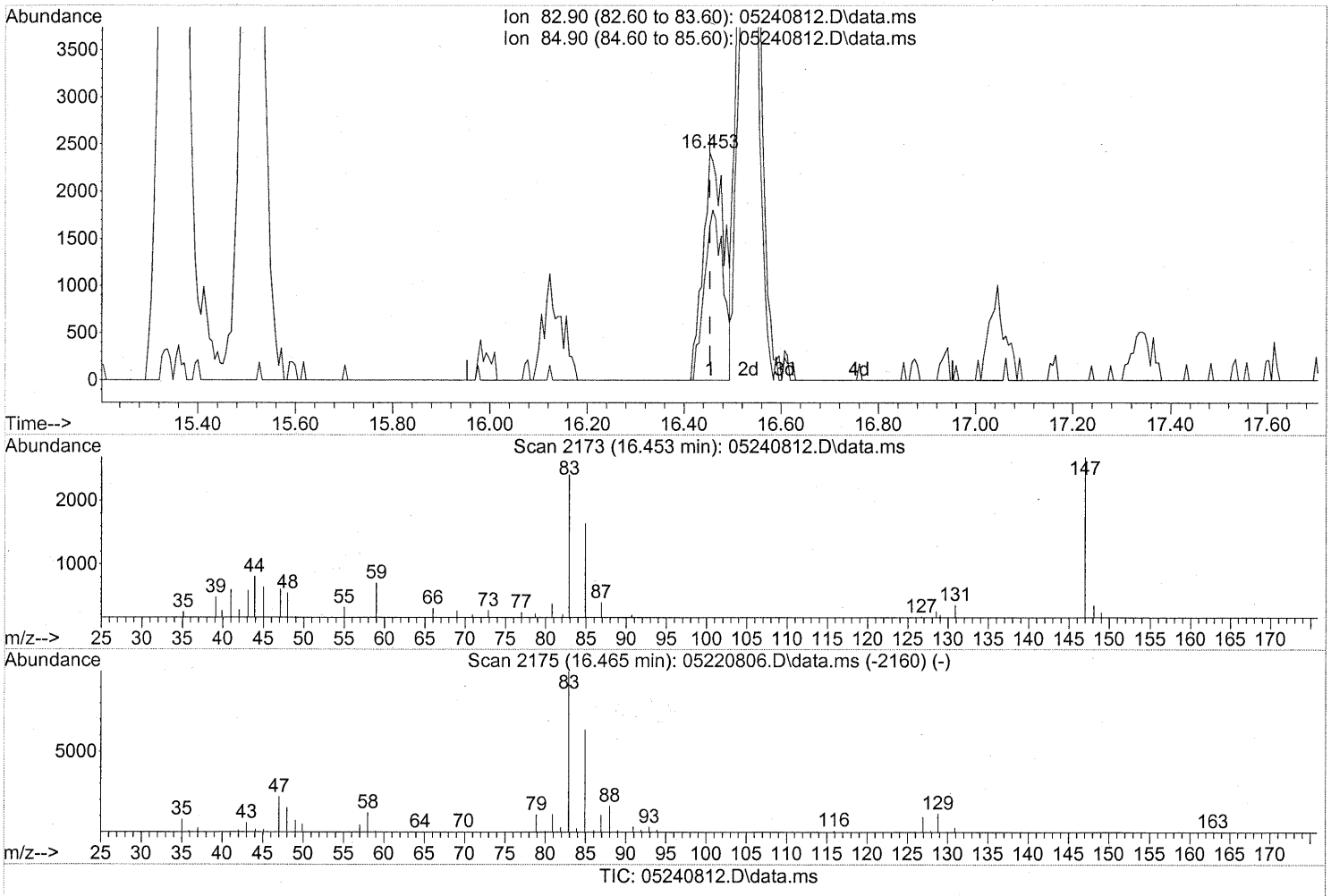
response 16962

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	93.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(46) Bromodichloromethane (T)

16.453min (-0.000) 0.20ng

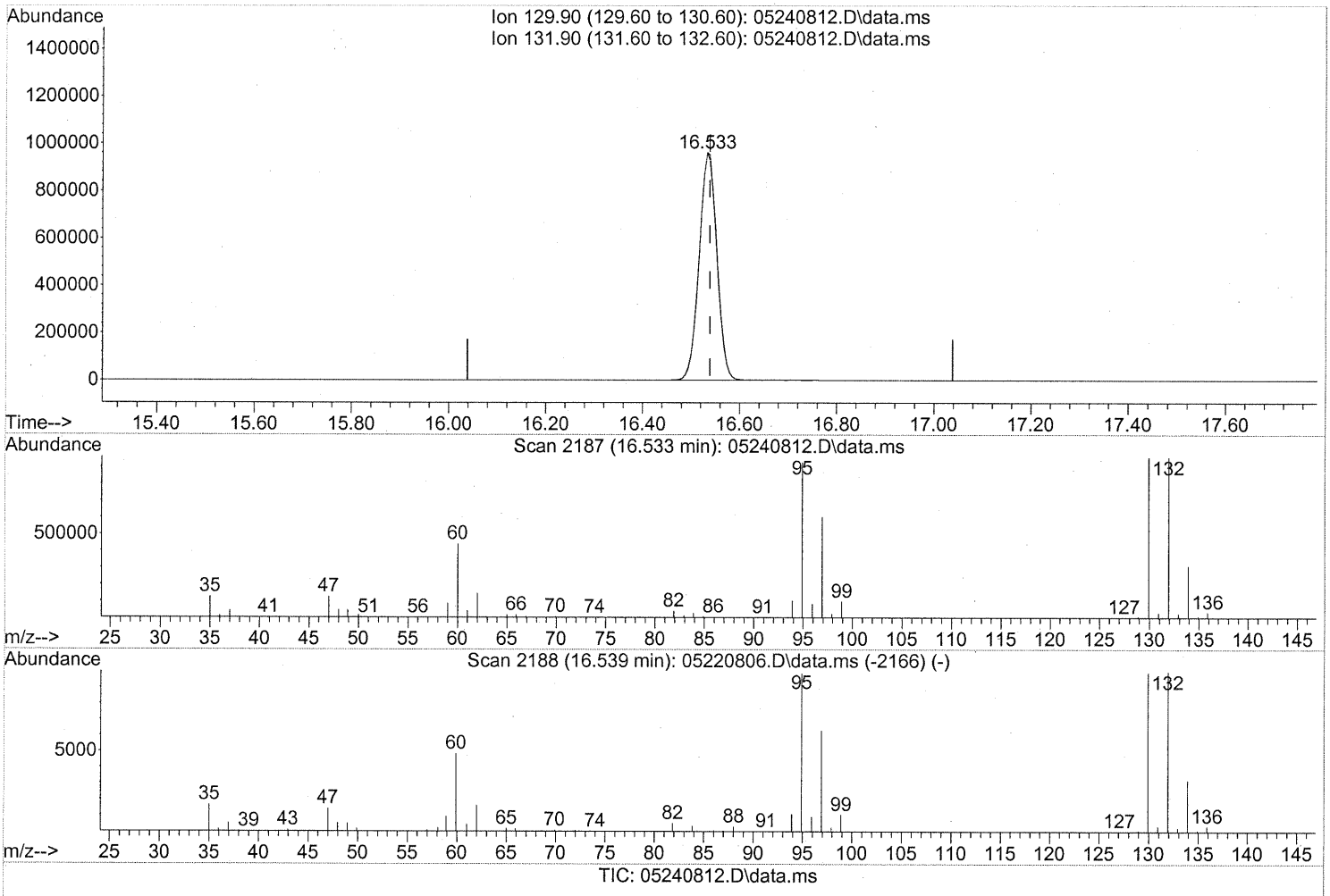
response 7211

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	67.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 72.49ng

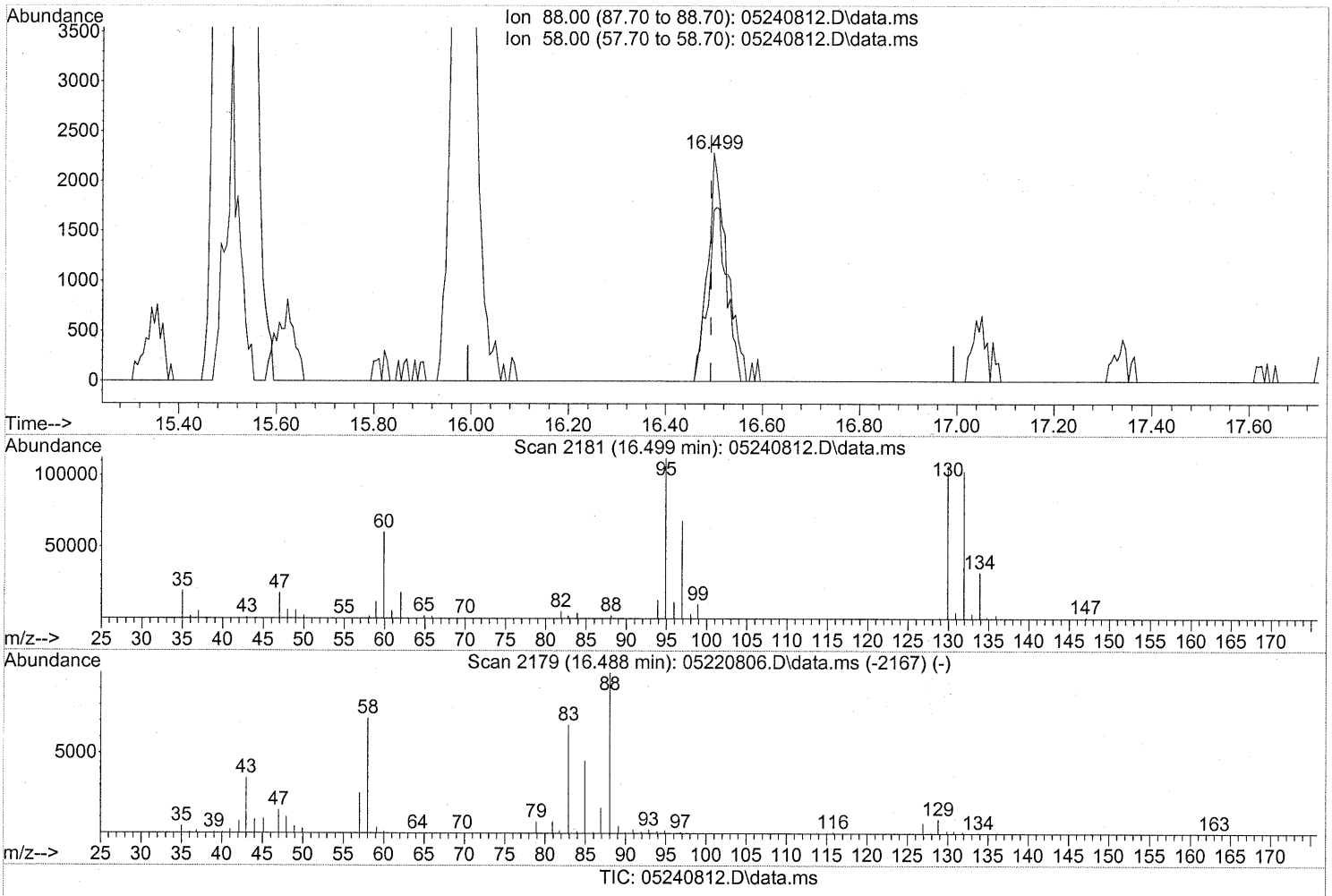
response 2414496

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(48) 1,4-Dioxane (T)

16.499min (+0.006) 0.28ng

response 5682

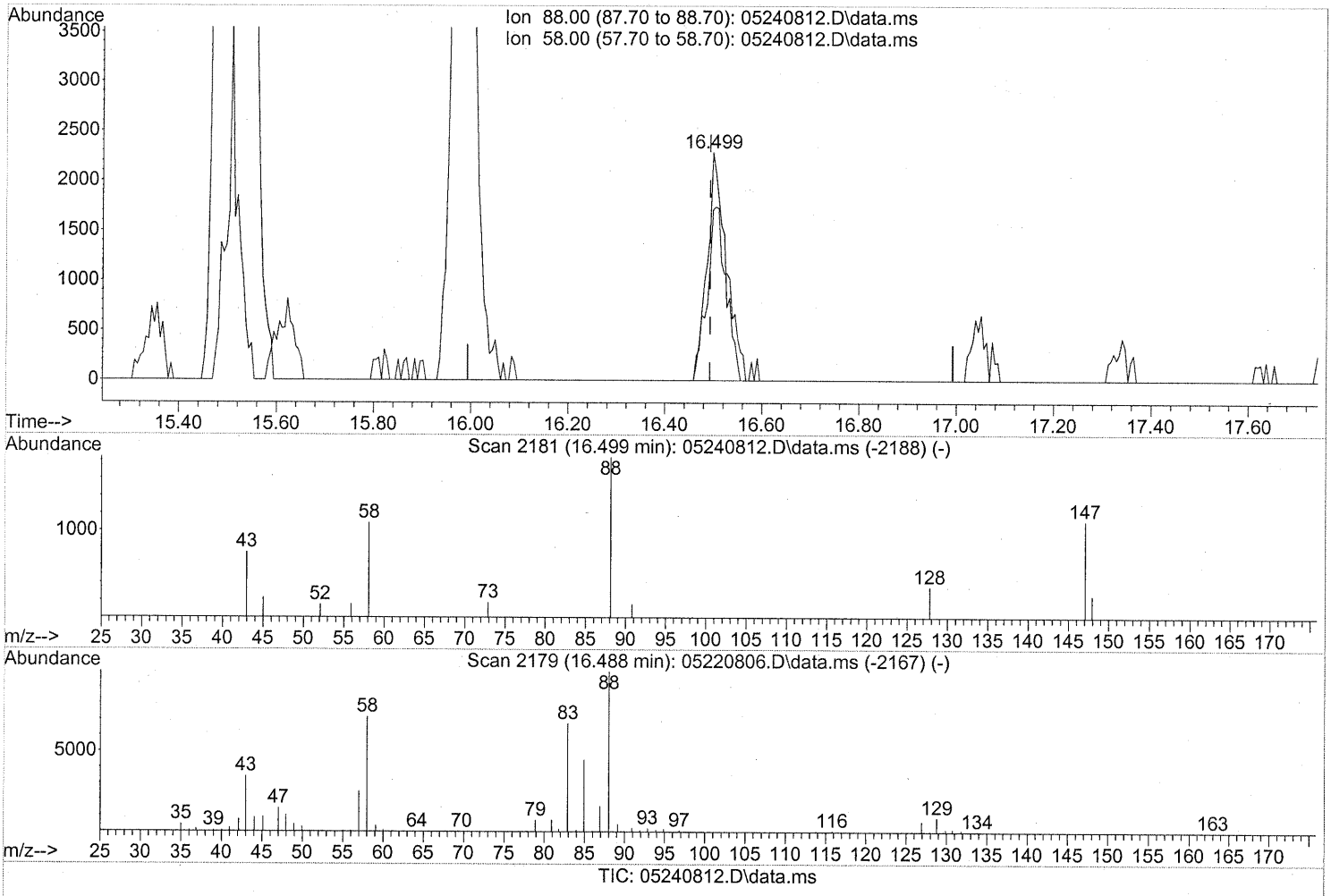
before

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	93.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(48) 1,4-Dioxane (T)

16.499min (+0.006) 0.28ng

response 5682

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	93.26
0.00	0.00	0.00
0.00	0.00	0.00

after subtr.

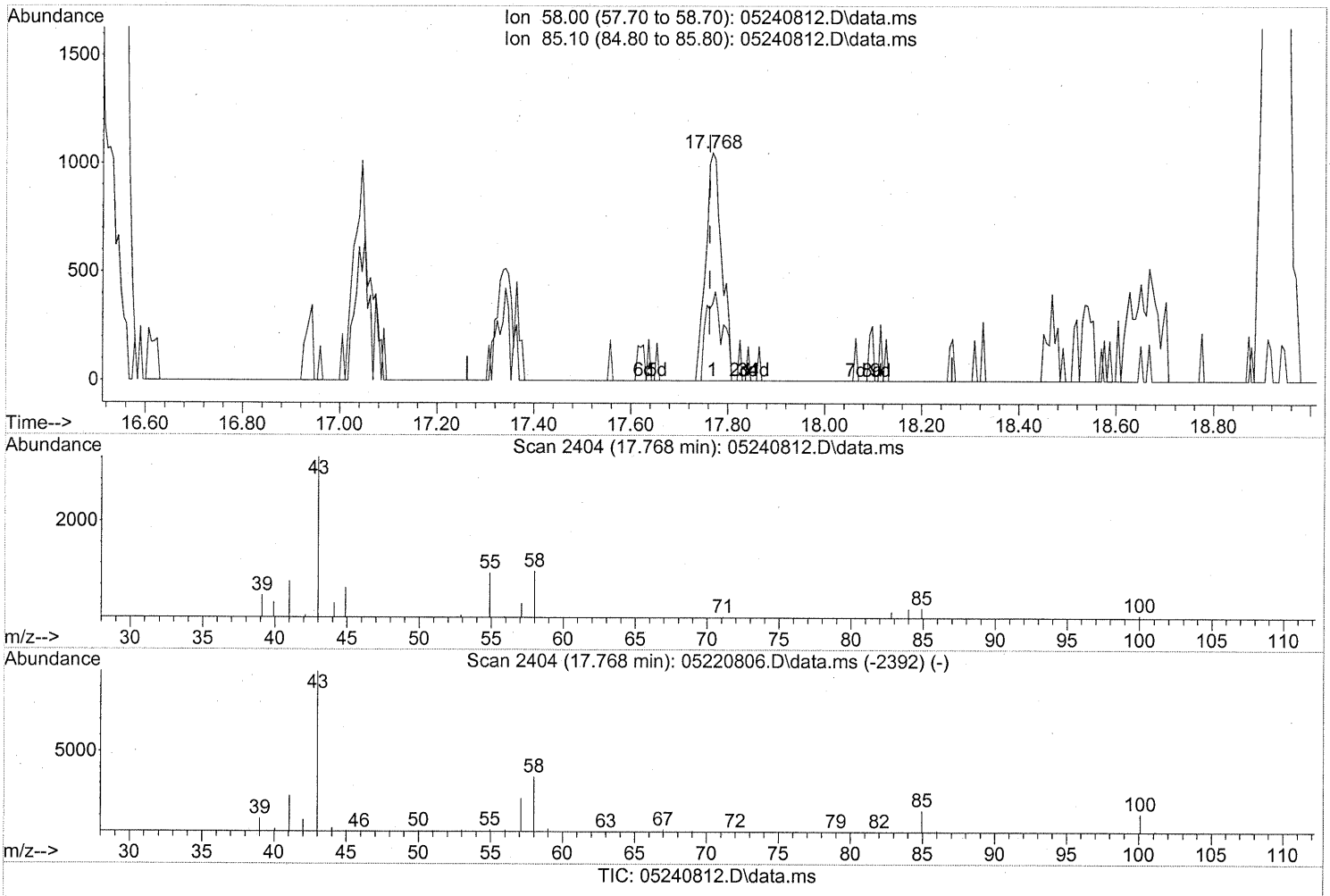
5/29/08

WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

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

17.768min (+0.006) 0.08ng

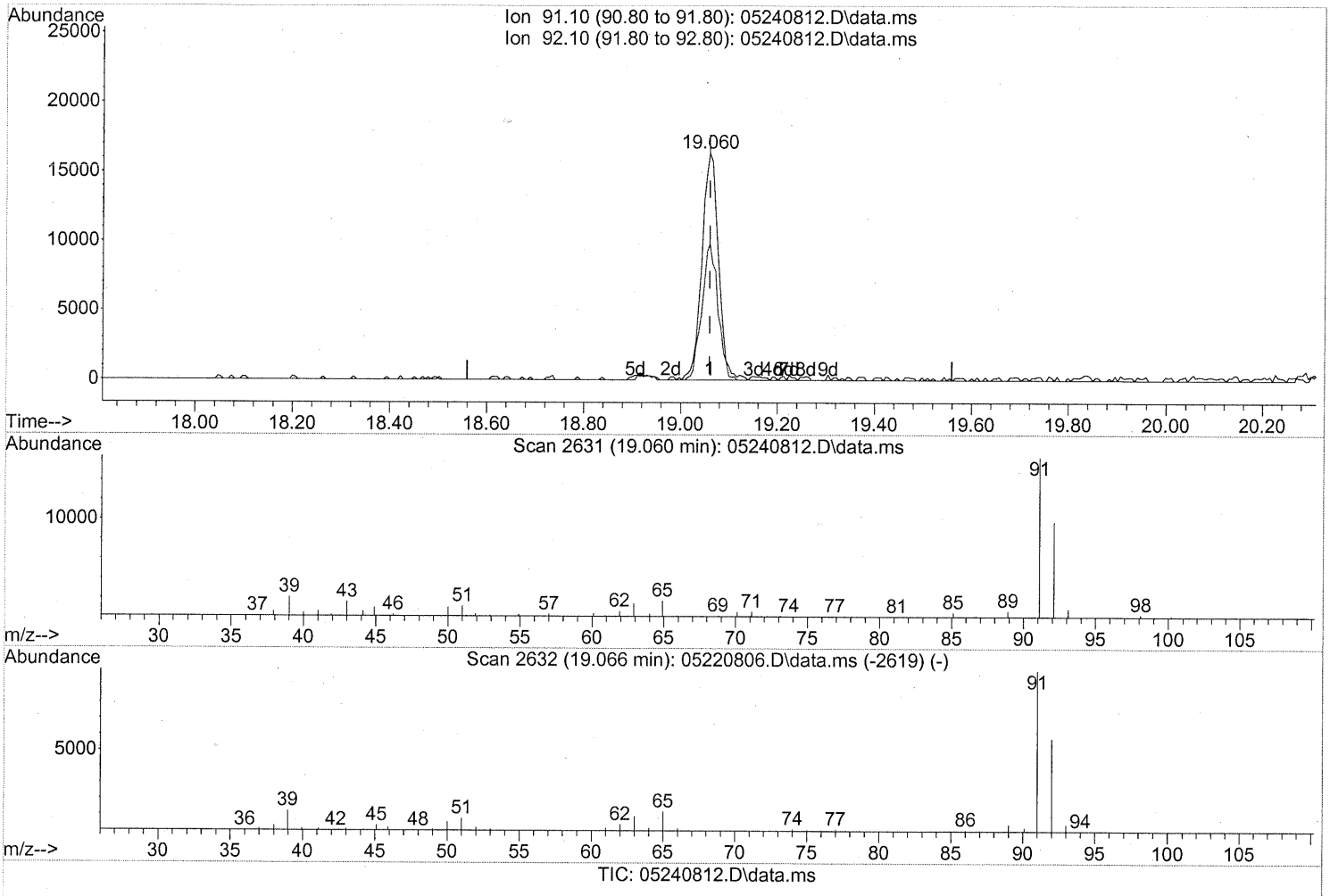
response 2427

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	40.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.32ng

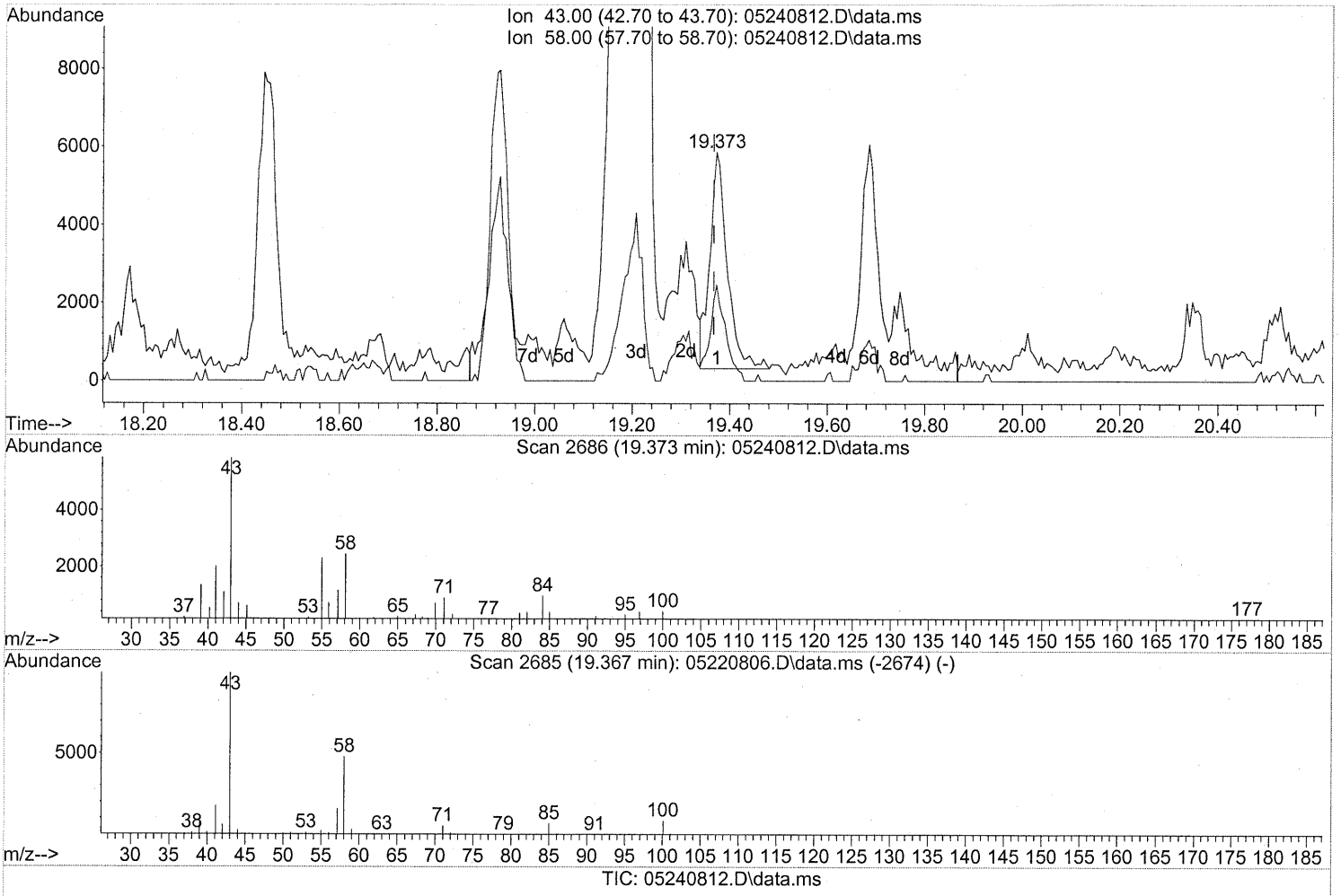
response 38867

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.17ng

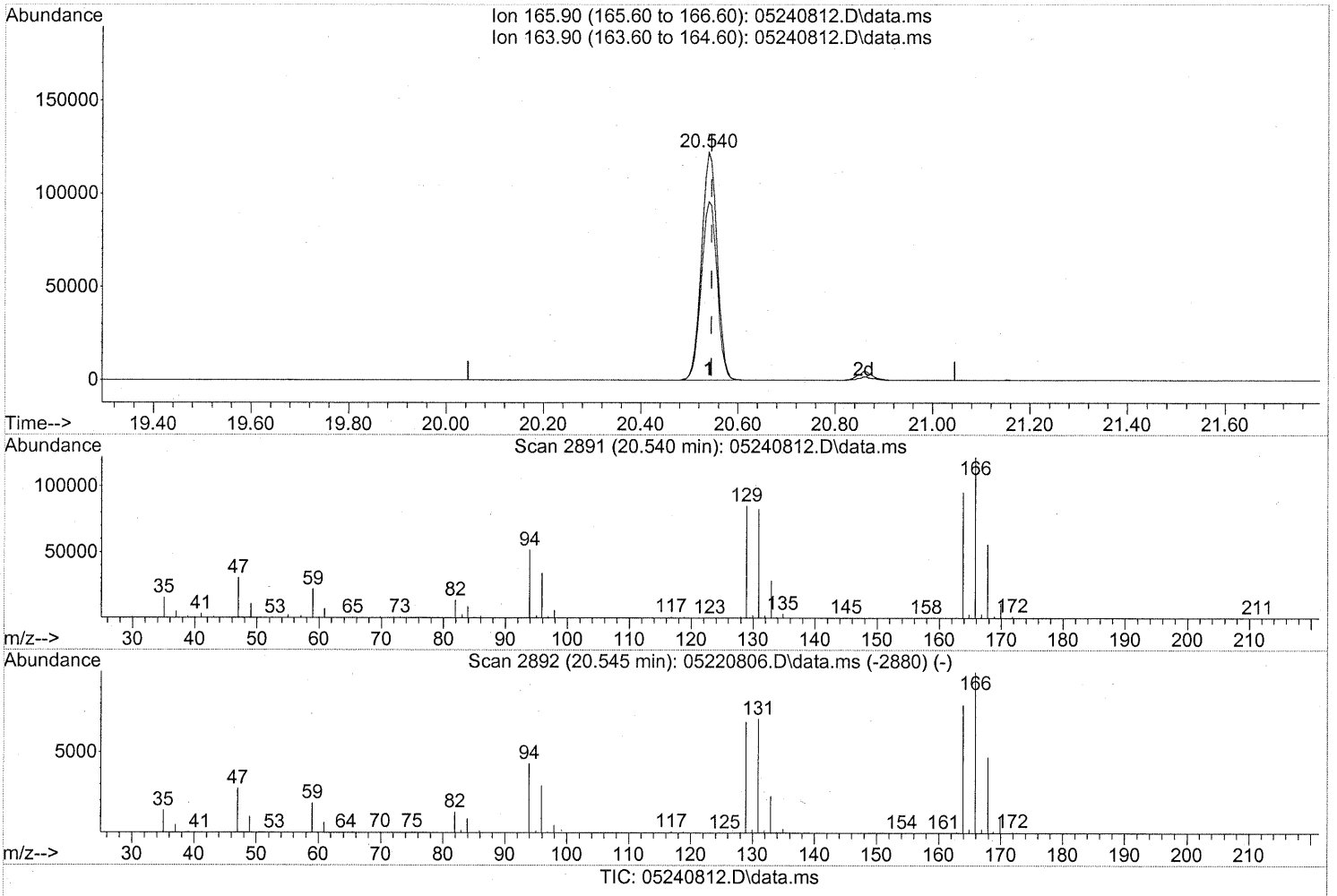
response 13787

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	39.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 7.57ng

response 270722

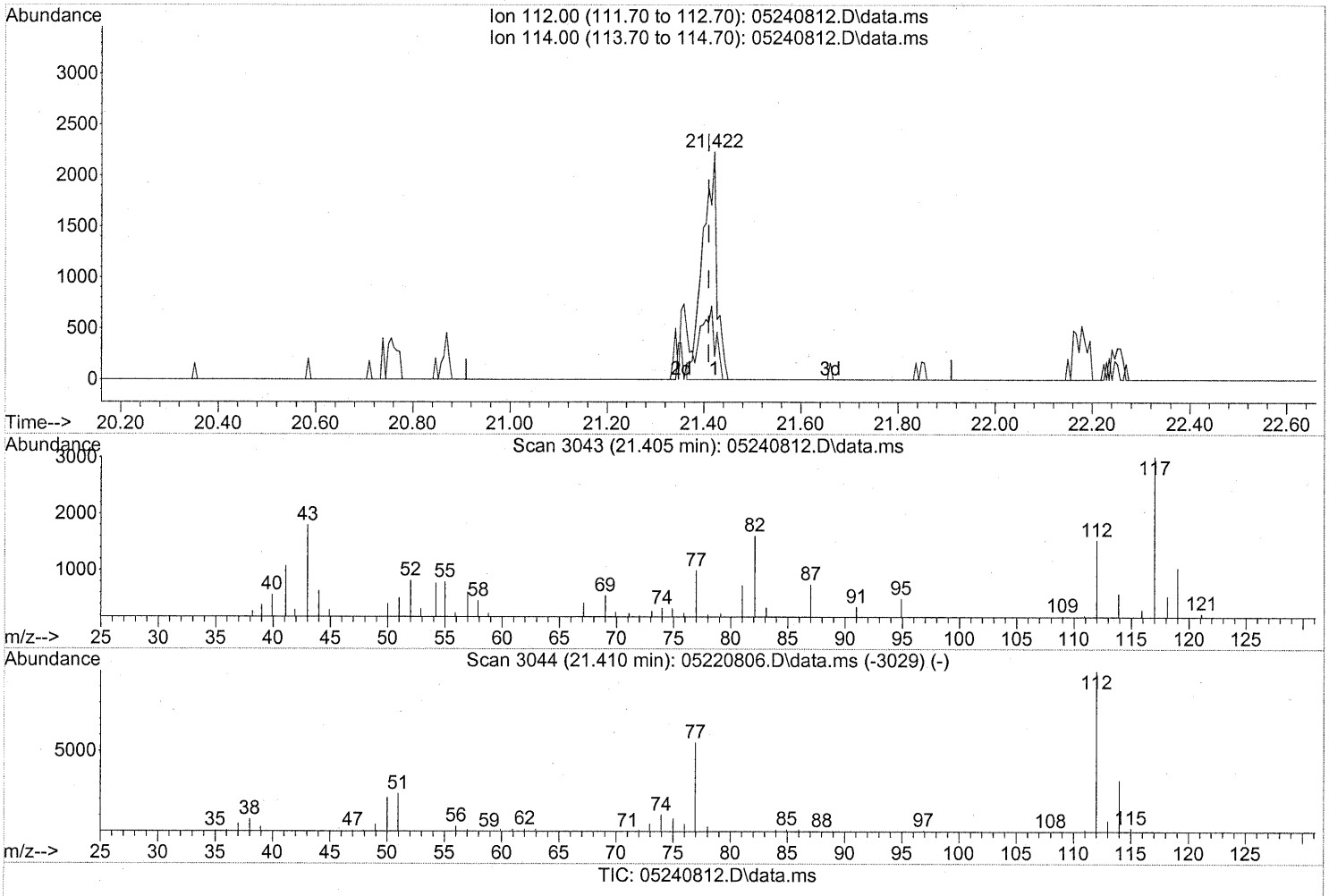
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.06
0.00	0.00	0.00
0.00	0.00	0.00

184

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(65) Chlorobenzene (T)

21.422min (+0.011) 0.06ng

response 4491

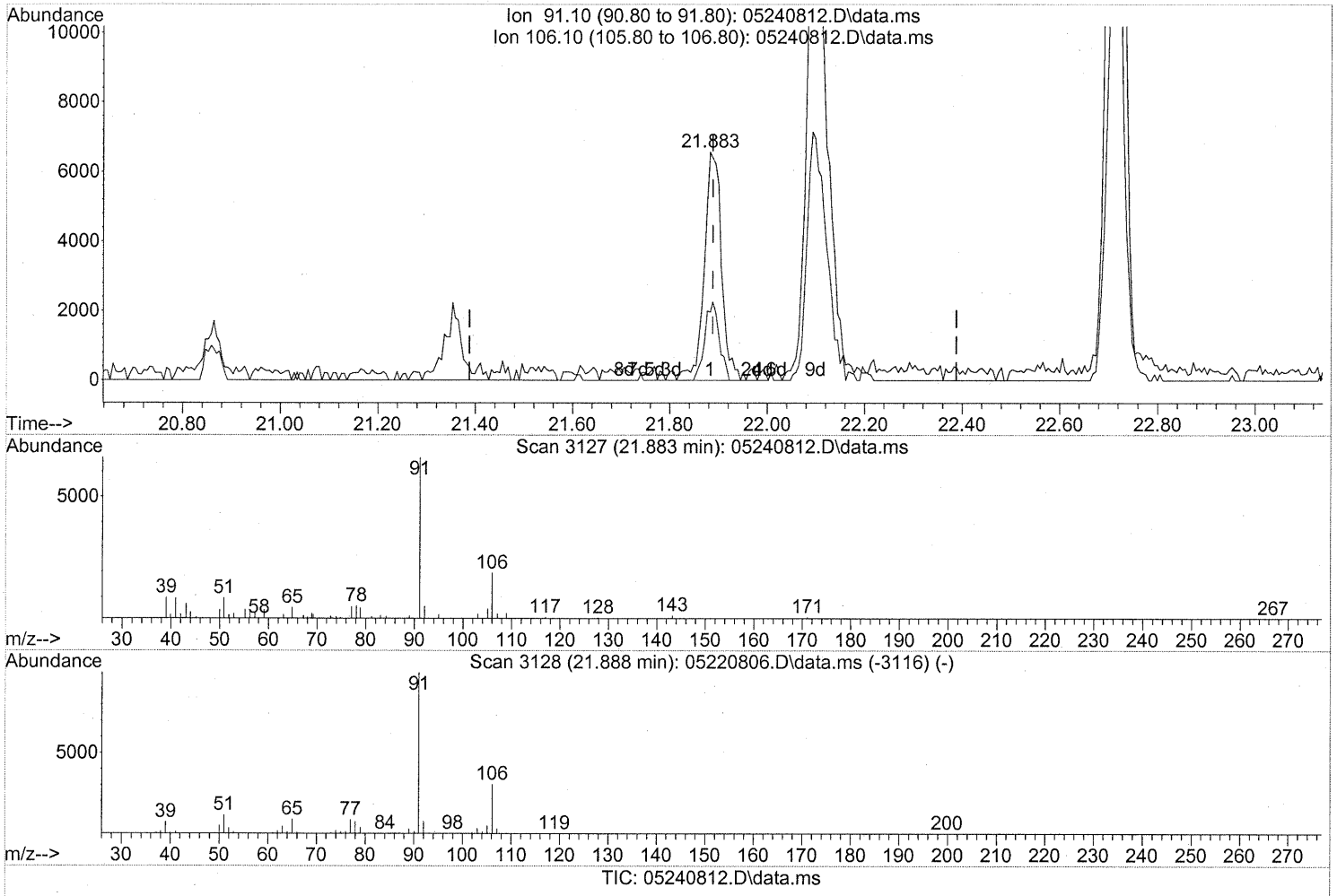
Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.55
0.00	0.00	0.00
0.00	0.00	0.00

185

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(66) Ethylbenzene (T)

21.883min (-0.006) 0.12ng

response 16071

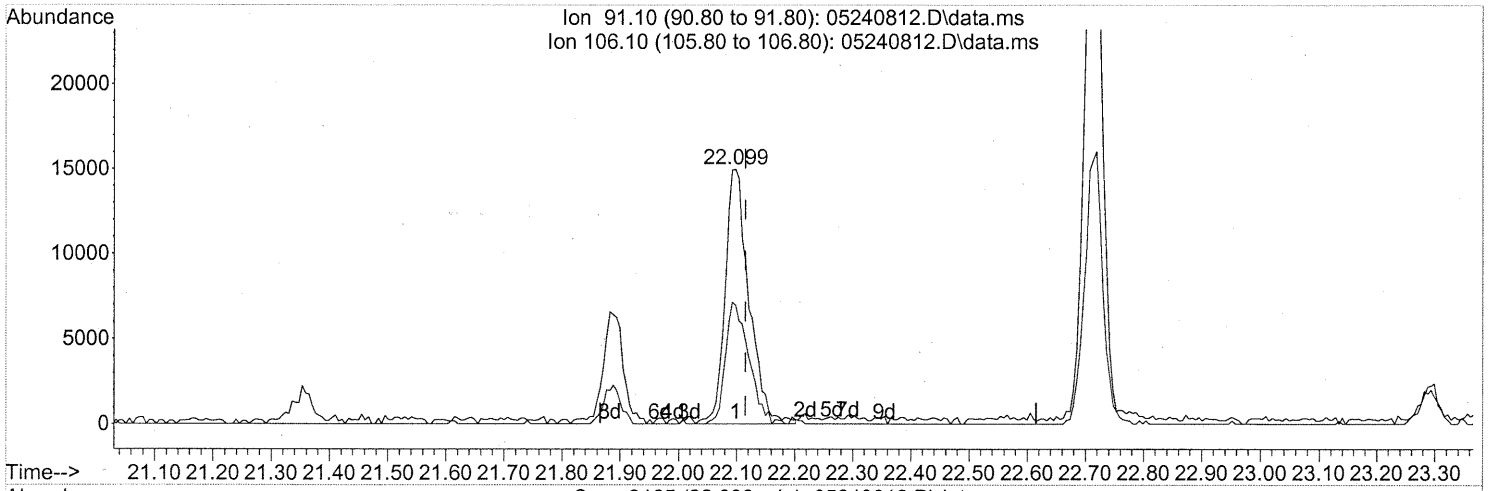
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	28.73
0.00	0.00	0.00
0.00	0.00	0.00

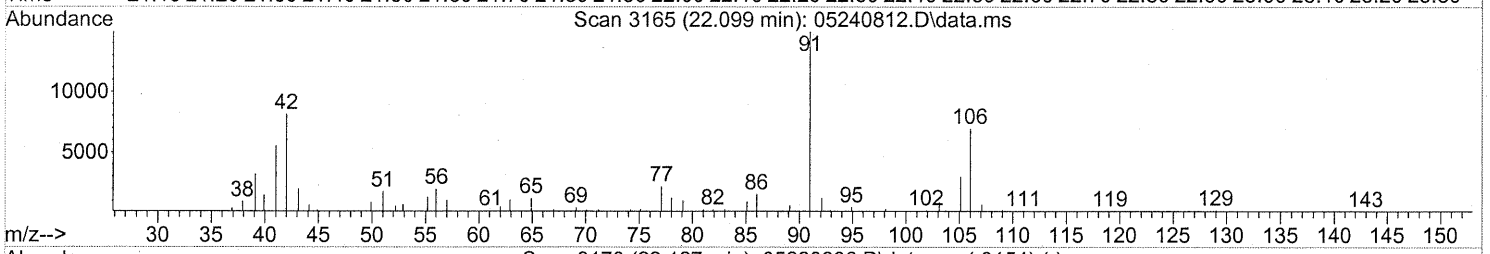
186

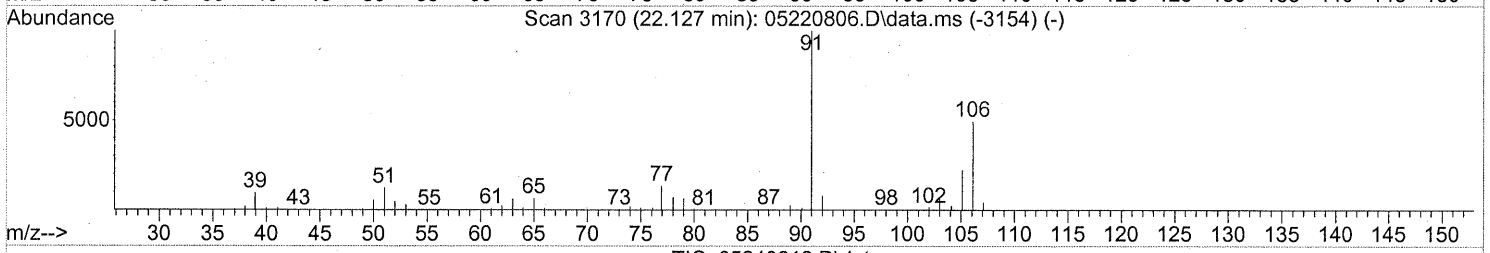
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240812.D\data.ms

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

22.099min (-0.017) 0.46ng

response 42849

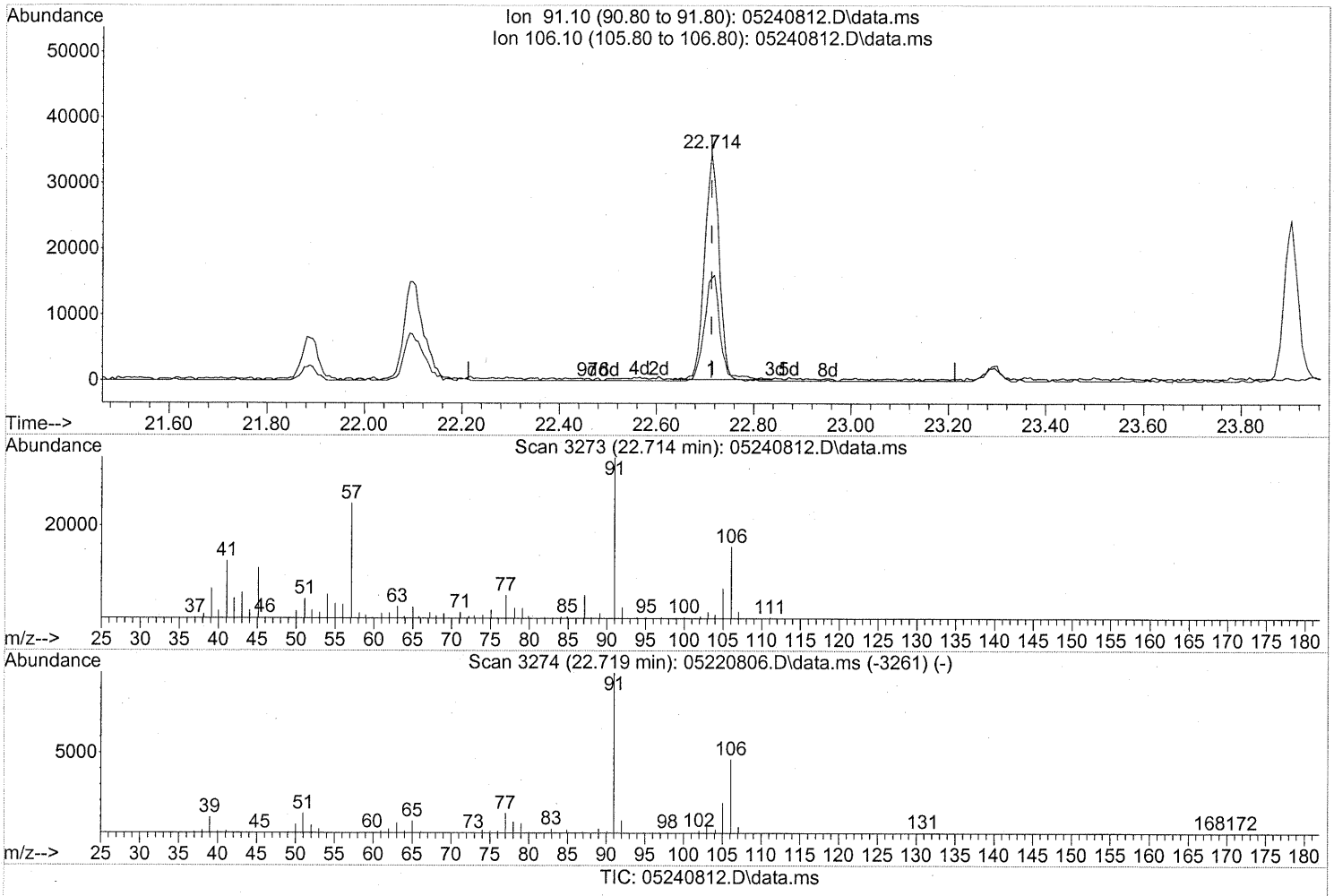
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	46.89
0.00	0.00	0.00
0.00	0.00	0.00

187

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.72ng

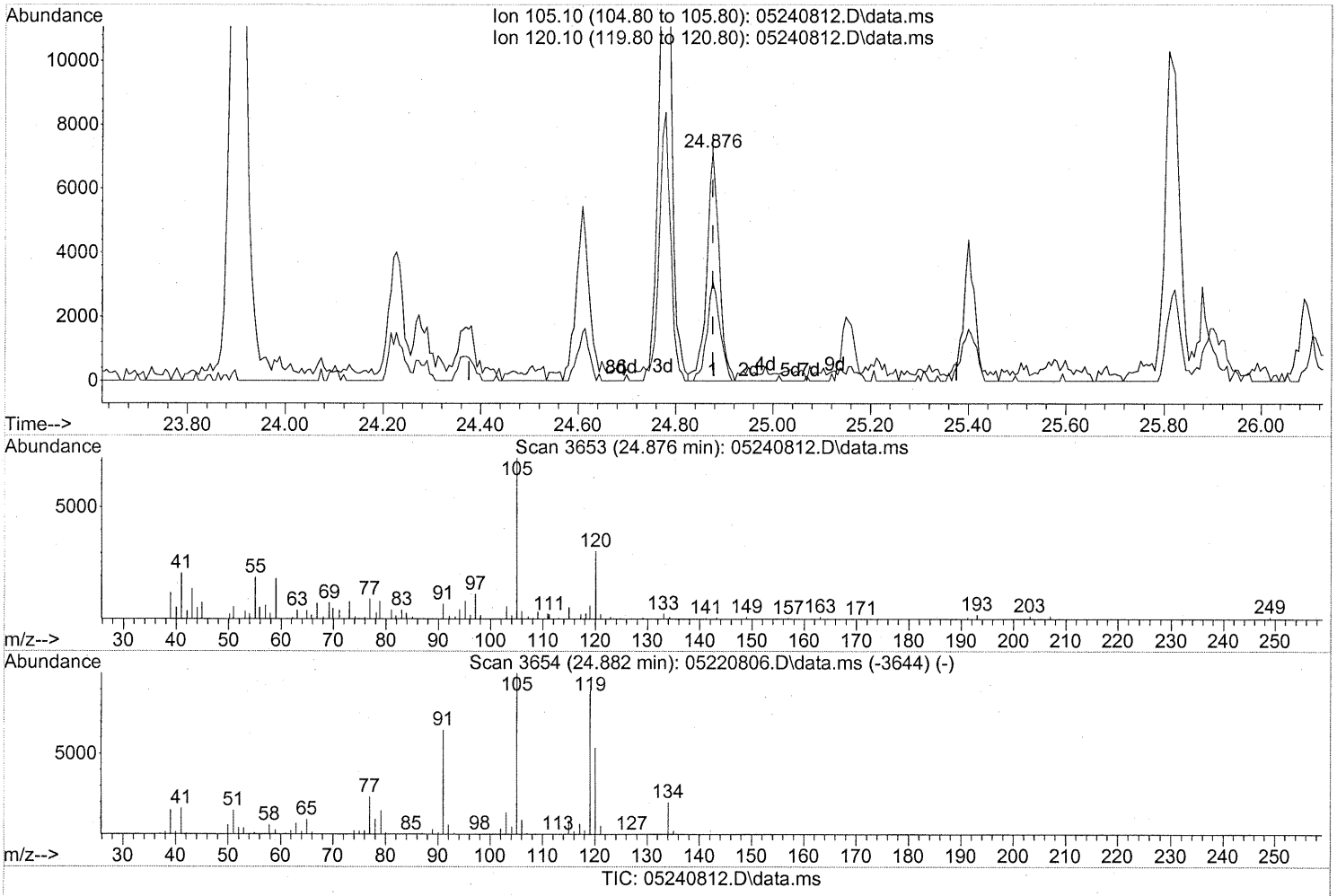
response 72527

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

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

24.876min (-0.000) 0.10ng

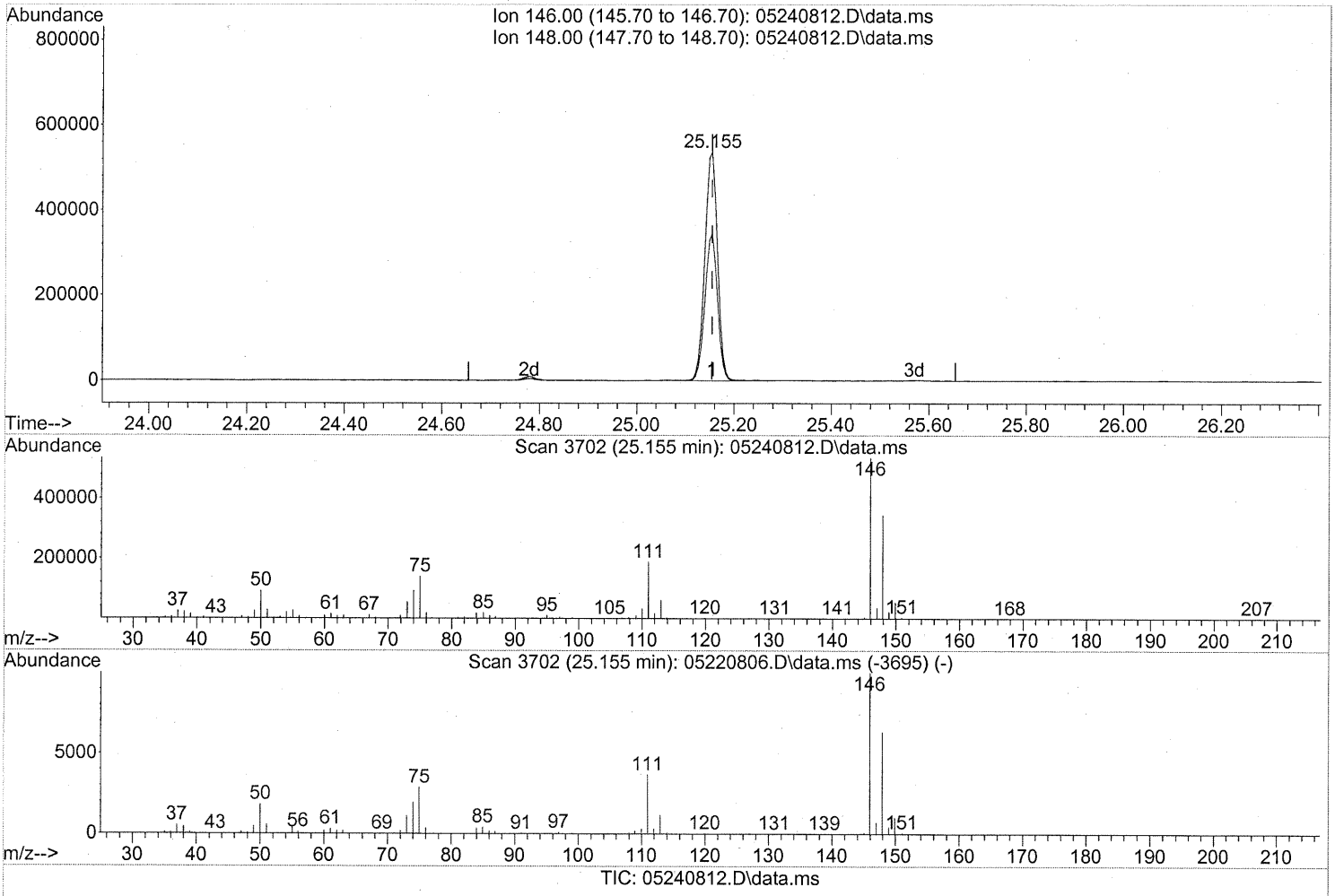
response 12663

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 13.19ng

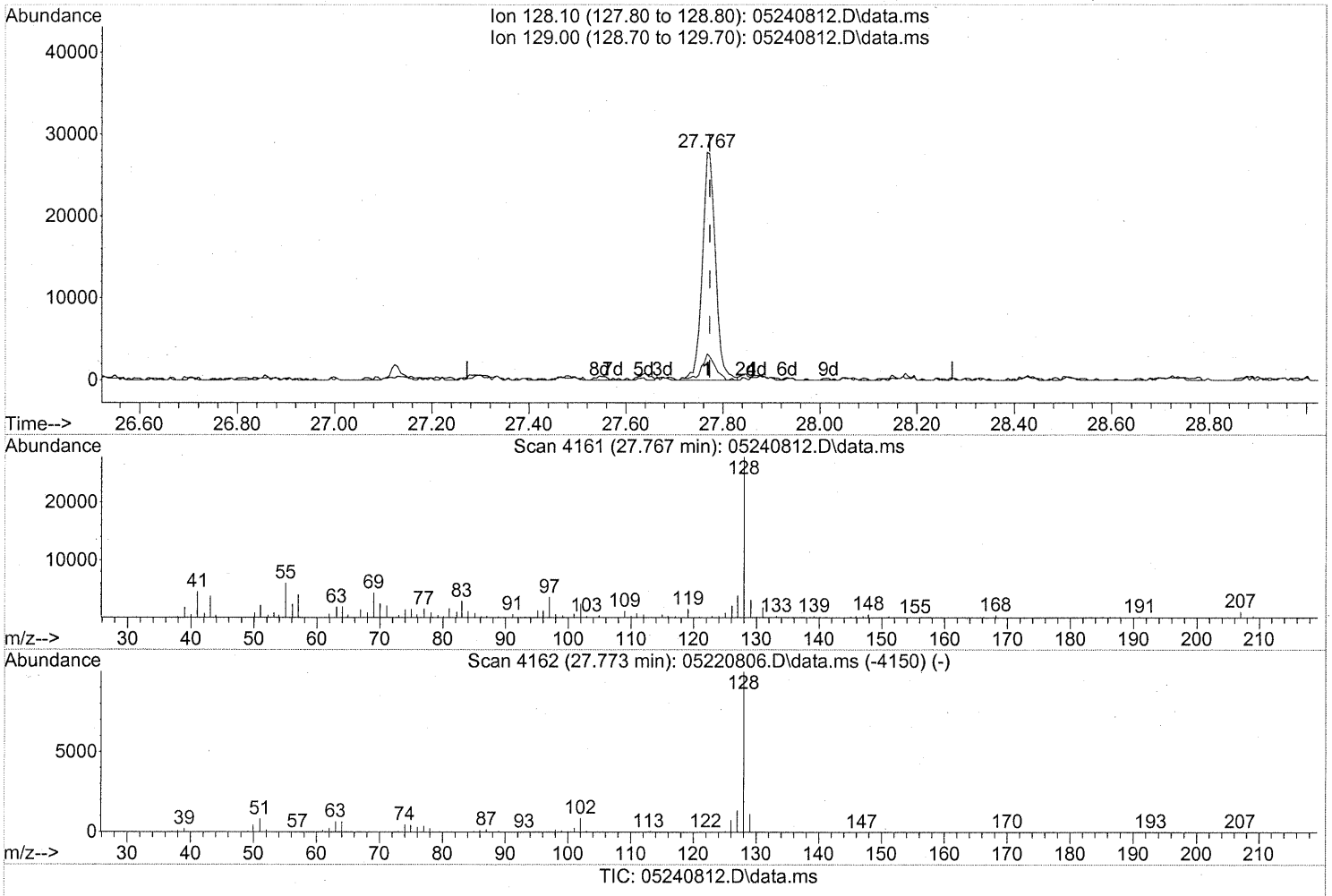
response 972420

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(95) Naphthalene (T)

27.767min (-0.006) 0.32ng

response 52059

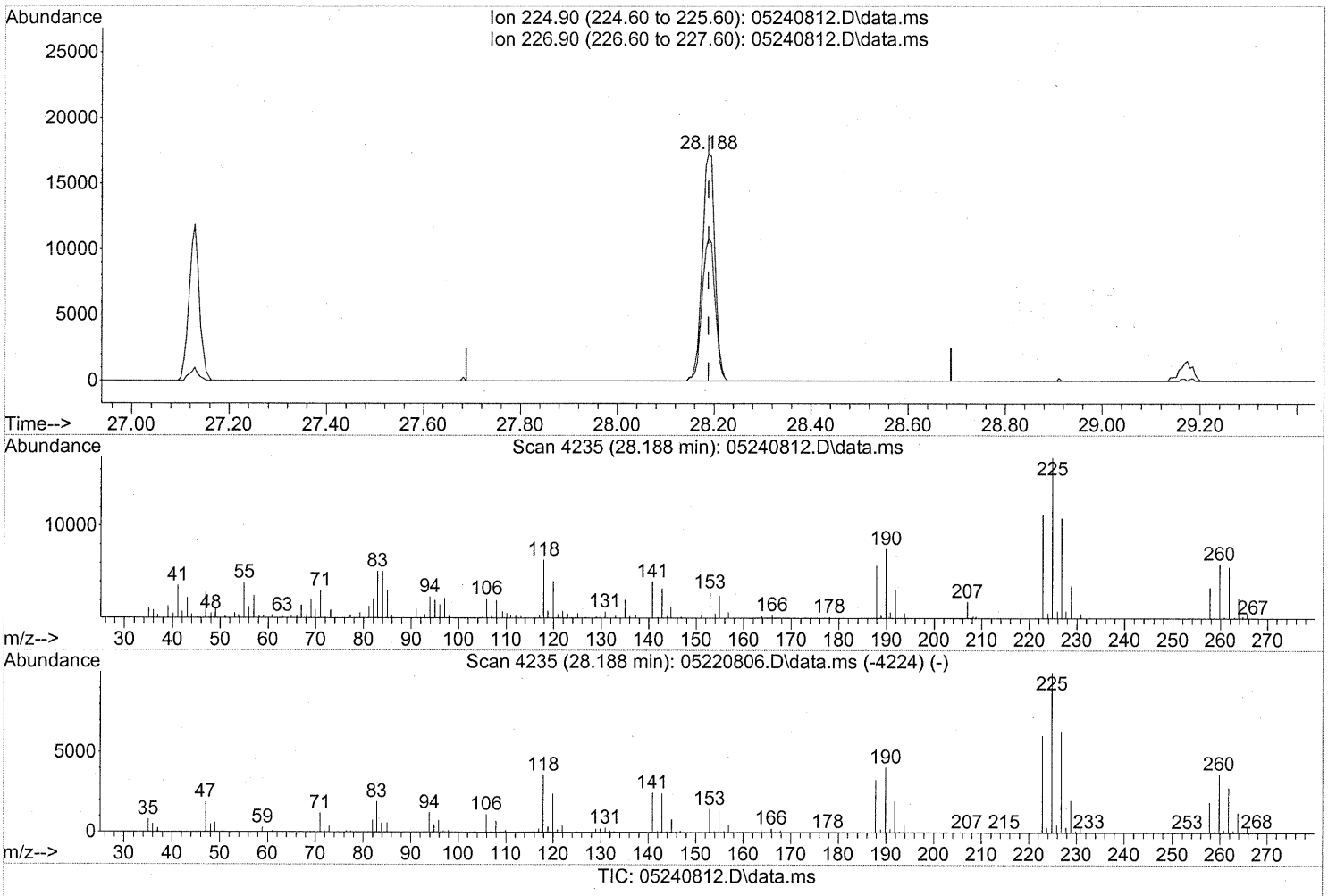
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	11.78
0.00	0.00	0.00
0.00	0.00	0.00

191

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 20:06:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

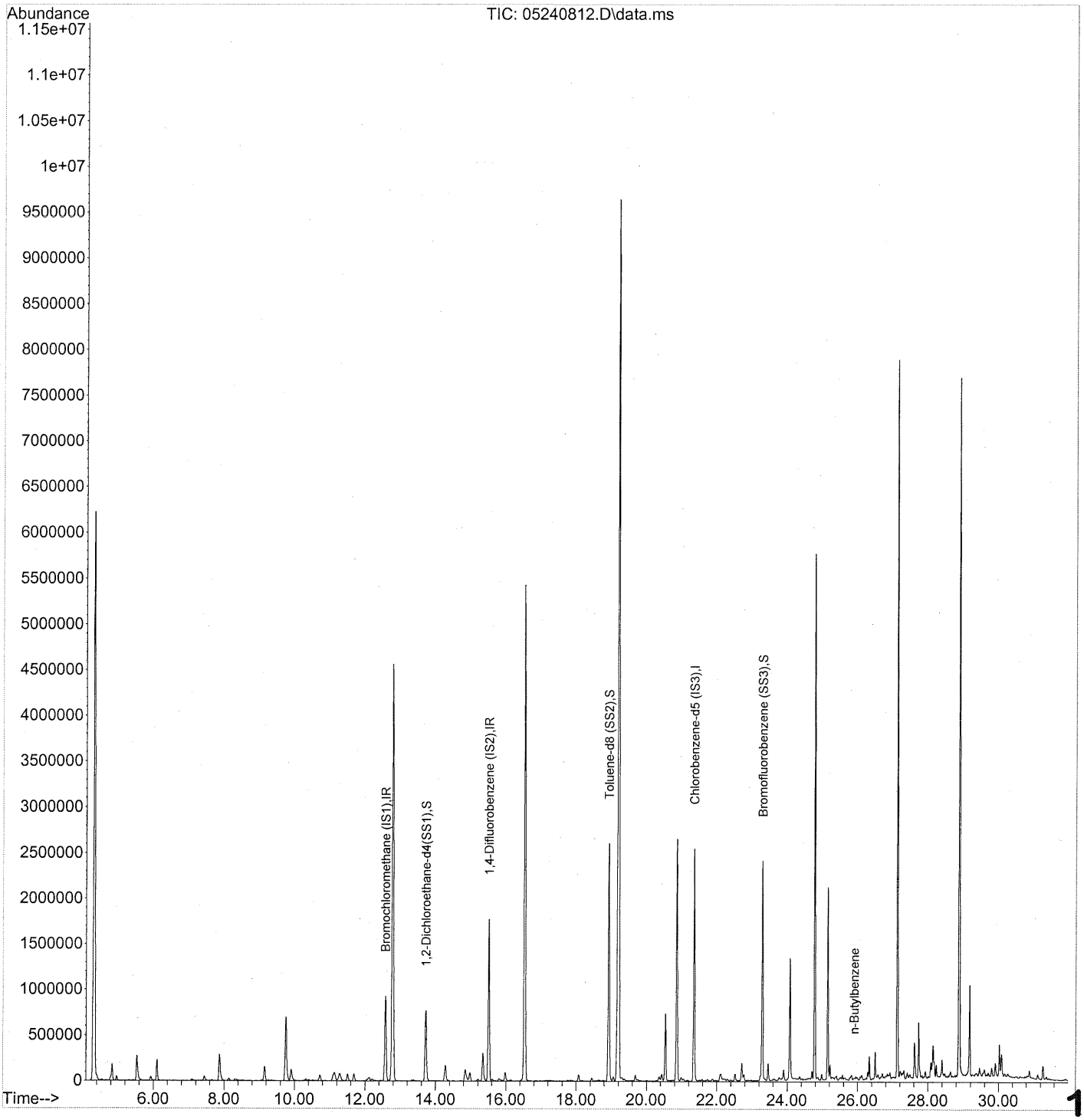
28.188min (-0.000) 0.89ng

response 31280

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	64.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 20:36:41 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 20:36:41 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	483630	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2073700	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	990343	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	791887	23.631	ng	-0.02
Spiked Amount 25.000			Recovery =	94.52%		
5) Toluene-d8 (SS2)	18.93	98	2179102	24.500	ng	-0.01
Spiked Amount 25.000			Recovery =	98.00%		
6) Bromofluorobenzene (SS3)	23.29	174	901118	24.915	ng	0.00
Spiked Amount 25.000			Recovery =	99.64%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	2382	N.D.		
8) n-Butylbenzene	25.91	91	8460	0.066	ng	# 51

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

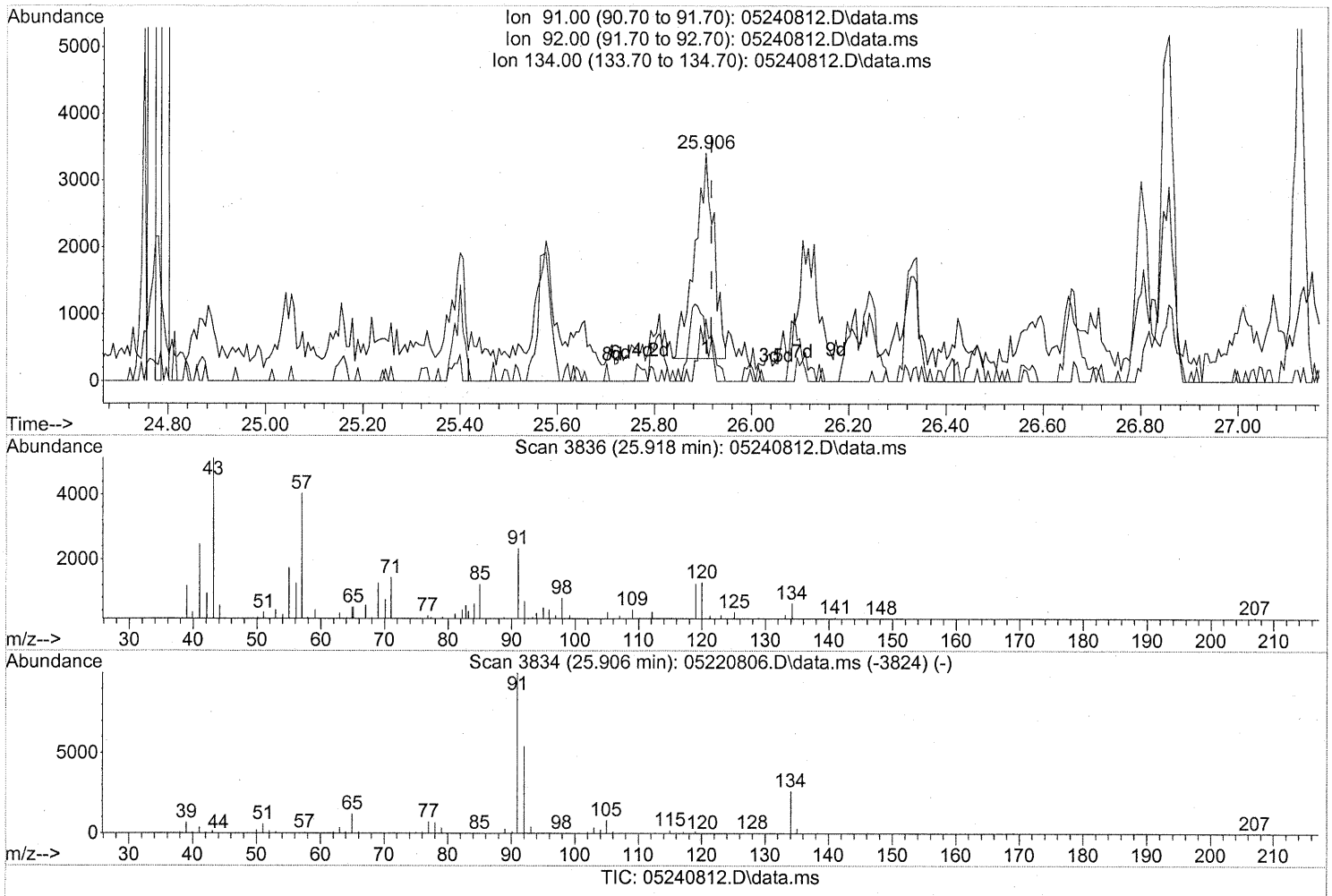
194

pd 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240812.D
Acq On : 24 May 2008 14:37
Operator : WA
Sample : P0801442-002 (500ml)
Misc : ENSR SG39B-05 (-3.5, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 20:36:41 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240812.D\data.ms

(8) n-Butylbenzene

25.906min (-0.011) 0.07ng

response 8460

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	21.84#
134.00	28.80	0.00#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG37B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

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**	1.6	0.16	**0.42**	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.15	0.077	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.12	0.062	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.081	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.060	
64-17-5	**Ethanol**	**4.1**	16	0.16	**2.2**	8.4	0.084	**J**
67-64-1	**Acetone**	**18**	16	0.23	**7.7**	6.7	0.097	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.32	0.16	**0.22**	0.056	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.73	0.10	
75-35-4	**1,1-Dichloroethene**	**1.9**	0.32	0.16	**0.48**	0.080	0.040	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.6**	1.6	0.23	**0.52**	0.52	0.077	**J**
75-09-2	**Methylene Chloride**	**0.29**	1.6	0.16	**0.085**	0.45	0.045	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.050	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.32	0.18	**0.067**	0.041	0.023	
75-15-0	**Carbon Disulfide**	**1.4**	1.6	0.38	**0.45**	0.51	0.12	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
75-34-3	**1,1-Dichloroethane**	**0.56**	0.32	0.16	**0.14**	0.078	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.088	0.044	
108-05-4	**Vinyl Acetate**	**14**	16	0.51	**3.9**	4.5	0.14	**J, M**
78-93-3	**2-Butanone (MEK)**	**12**	1.6	0.16	**4.2**	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	0.16	ND	0.080	0.040	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	**Chloroform**	**210**	0.32	0.19	**42**	0.065	0.038	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
B = Analyte was found in the method blank.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG37B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

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	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.078	0.039	
71-55-6	**1,1,1-Trichloroethane**	**0.23**	0.32	0.16	**0.042**	0.058	0.029	**J**
71-43-2	**Benzene**	**3.2**	0.32	0.16	**1.0**	0.099	0.049	
56-23-5	**Carbon Tetrachloride**	**1.9**	0.32	0.16	**0.30**	0.050	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.068	0.034	
75-27-4	**Bromodichloromethane**	**5.7**	0.32	0.16	**0.84**	0.047	0.024	
79-01-6	**Trichloroethene**	**2.2**	0.32	0.16	**0.41**	0.059	0.029	
123-91-1	1,4-Dioxane	ND	1.6	0.19	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.058	
142-82-5	n-Heptane	ND	1.6	0.20	ND	0.39	0.049	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.16	ND	0.35	0.036	
108-10-1	**4-Methyl-2-pentanone**	**0.68**	1.6	0.18	**0.17**	0.39	0.043	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.058	0.029	
108-88-3	**Toluene**	**1.1**	1.6	0.16	**0.30**	0.42	0.042	**J**
591-78-6	**2-Hexanone**	**0.61**	1.6	0.24	**0.15**	0.39	0.059	**J**
124-48-1	Dibromochloromethane	ND	0.32	0.21	ND	0.037	0.025	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.041	0.022	
111-65-9	n-Octane	ND	1.6	0.16	ND	0.34	0.034	
127-18-4	**Tetrachloroethene**	**92**	0.32	0.16	**14**	0.047	0.023	
108-90-7	Chlorobenzene	ND	0.32	0.16	ND	0.069	0.035	

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

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG37B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00411

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.50**	1.6	0.20	**0.11**	0.36	0.045	**J**
179601-23-1	**m,p-Xylenes**	**2.3**	1.6	0.41	**0.54**	0.36	0.095	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.023	
100-42-5	Styrene	ND	1.6	0.24	ND	0.37	0.056	
95-47-6	**o-Xylene**	**0.87**	1.6	0.20	**0.20**	0.36	0.046	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.046	0.029	
98-82-8	Cumene	ND	1.6	0.18	ND	0.32	0.036	
103-65-1	n-Propylbenzene	ND	1.6	0.16	ND	0.32	0.033	
622-96-8	**4-Ethyltoluene**	**0.24**	1.6	0.18	**0.049**	0.32	0.037	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.33**	1.6	0.19	**0.067**	0.32	0.039	**J**
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	**1,2,4-Trimethylbenzene**	**0.90**	1.6	0.22	**0.18**	0.32	0.044	**J**
100-44-7	Benzyl Chloride	ND	0.32	0.27	ND	0.061	0.053	
541-73-1	1,3-Dichlorobenzene	ND	0.32	0.20	ND	0.053	0.033	
106-46-7	**1,4-Dichlorobenzene**	**58**	0.32	0.18	**9.7**	0.053	0.029	
135-98-8	sec-Butylbenzene	ND	1.6	0.18	ND	0.29	0.033	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.21**	1.6	0.21	**0.039**	0.29	0.037	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.32	0.21	ND	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.16	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.032	
91-20-3	**Naphthalene**	**1.6**	0.63	0.23	**0.30**	0.12	0.045	
87-68-3	Hexachlorobutadiene	ND	0.32	0.28	ND	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.63	0.16	ND	0.12	0.029	
104-51-8	**n-Butylbenzene**	**0.38**	0.63	0.16	**0.069**	0.12	0.029	**J**

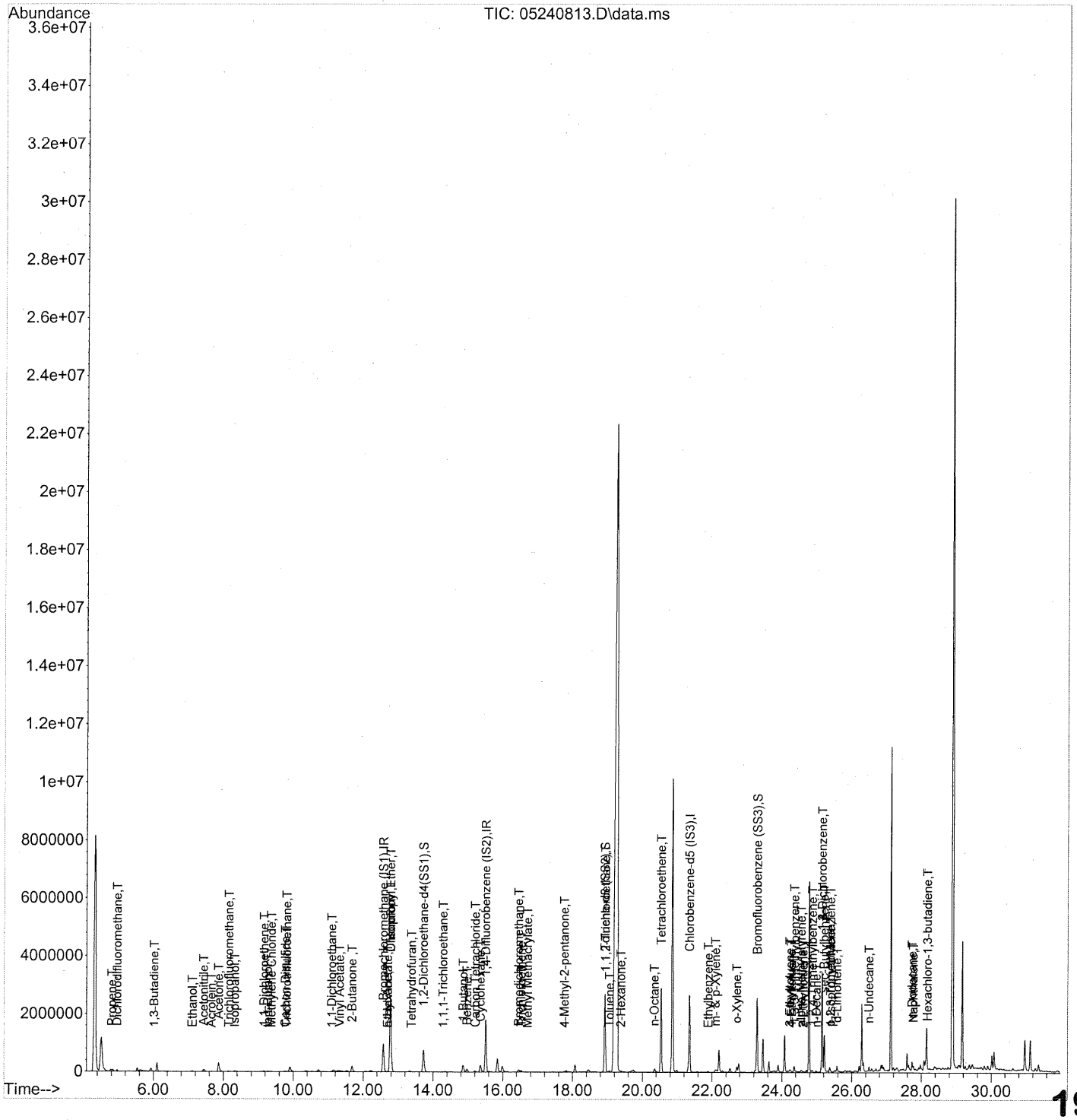
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: Re Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	502403	25.000 ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2138148	25.000 ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1047220	25.000 ng		0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	13.73	65	808737	23.232 ng		0.00
Spiked Amount 25.000			Recovery =	92.92%		
57) Toluene-d8 (SS2)	18.93	98	2255487	23.982 ng		0.00
Spiked Amount 25.000			Recovery =	95.92%		
73) Bromofluorobenzene (SS3)	23.29	174	956196	25.001 ng		0.00
Spiked Amount 25.000			Recovery =	100.00%		
Target Compounds						Qvalue
2) Propene	4.81	42	20467	0.516 ng	#	86
3) Dichlorodifluoromethane	4.97	85	48074	0.657 ng		98
4) Chloromethane	5.31	50	569	N.D. ✓		
5) Freon 114	5.54	135	924	N.D. ✓		
6) Vinyl Chloride	5.75	62	52	N.D. ✓		
7) 1,3-Butadiene	6.02	54	1808	0.051 ng	#	5
8) Bromomethane	6.51	94	903	N.D. ✓		
9) Chloroethane	6.83	64	186	N.D. ✓		
10) Ethanol	7.11	45	34071m	1.290 ng		
11) Acetonitrile	7.43	41	125477	1.643 ng		95
12) Acrolein	7.66	56	7347	0.389 ng		86
13) Acetone	7.87	58	156331	5.780 ng	#	61
14) Trichlorofluoromethane	8.16	101	24776	0.395 ng		99
15) Isopropanol	8.33	45	54183	0.628 ng		96
16) Acrylonitrile	8.62	53	970	N.D. ✓		
17) 1,1-Dichloroethene	9.17	96	16568	0.600 ng	#	79
18) tert-Butanol	9.27	59	36502	0.498 ng		92
19) Methylene Chloride	9.38	84	2819	0.093 ng	#	77
20) Allyl Chloride	9.55	41	113	N.D. ✓		
21) Trichlorotrifluoroethane	9.82	151	4634	0.162 ng		90
22) Carbon Disulfide	9.77	76	51071	0.445 ng		96
23) trans-1,2-Dichloroethene	10.73	61	1131	N.D. ✓		
24) 1,1-Dichloroethane	11.10	63	9226	0.176 ng		94
25) Methyl tert-Butyl Ether	11.21	73	3768	N.D. ✓		
26) Vinyl Acetate	11.33	86	21798	4.361 ng M	#	1
27) 2-Butanone	11.68	72	77129	3.907 ng	#	90
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.78	87	313185	~~12.948 ng~~ NR	#	1
30) Ethyl Acetate	12.70	61	889	0.083 ng		89
31) n-Hexane	12.70	57	3841	0.071 ng	#	71

MDA 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	2986644	65.192 ng		100
34) Tetrahydrofuran	13.38	72	3653	0.194 ng		97
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	293	N.D.		
38) 1,1,1-Trichloroethane	14.29	97	3537	0.073 ng		82
39) Isopropyl Acetate	14.99	61	772	N.D.		
40) 1-Butanol	14.87	56	206939	7.041 ng		86
41) Benzene	14.98	78	114414	1.022 ng		98
42) Carbon Tetrachloride	15.21	117	26049	0.604 ng		96
43) Cyclohexane	15.36	84	13719	0.315 ng	#	1
44) tert-Amyl Methyl Ether	15.92	73	1254	N.D.		
45) 1,2-Dichloropropane	16.19	63	585	N.D.		
46) Bromodichloromethane	16.46	83	67738	1.790 ng		98
47) Trichloroethene	16.53	130	23699	0.690 ng		96
48) 1,4-Dioxane	16.52	88	279	N.D.		
49) Isooctane	16.60	57	5277	N.D.		
50) Methyl Methacrylate	16.72	100	941	~~0.084 ng~~ NR	#	1
51) n-Heptane	16.98	71	1204	N.D.		
52) cis-1,3-Dichloropropene	17.82	75	612	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	6381	0.215 ng		77
54) trans-1,3-Dichloropropene	18.43	75	83	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	198297	~~7.168 ng~~ NR	#	8
58) Toluene	19.06	91	45127	0.353 ng		95
59) 2-Hexanone	19.38	43	17009	0.193 ng		76
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	19.73	107	55	N.D.		
62) Butyl Acetate	20.19	43	875	N.D.		
63) n-Octane	20.35	57	1675	0.059 ng NR	#	73
64) Tetrachloroethene	20.55	166	1099362	29.061 ng		100
65) Chlorobenzene	21.42	112	1327	N.D.		
66) Ethylbenzene	21.89	91	22966	0.157 ng		89
67) m- & p-Xylene	22.10	91	72657	0.741 ng		91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	2285	N.D.		
70) o-Xylene	22.71	91	28991	0.274 ng		97
71) n-Nonane	22.98	43	3650	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.67	83	241	N.D.		
74) Cumene	23.46	105	1744	N.D.		
75) alpha-Pinene	23.95	93	2811	N.D.		
76) n-Propylbenzene	24.10	91	8731	N.D.		
77) 3-Ethyltoluene	24.23	105	21916	0.146 ng		96
78) 4-Ethyltoluene	24.28	105	10668	0.076 ng		95
79) 1,3,5-Trimethylbenzene	24.37	105	13169	0.104 ng		89

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

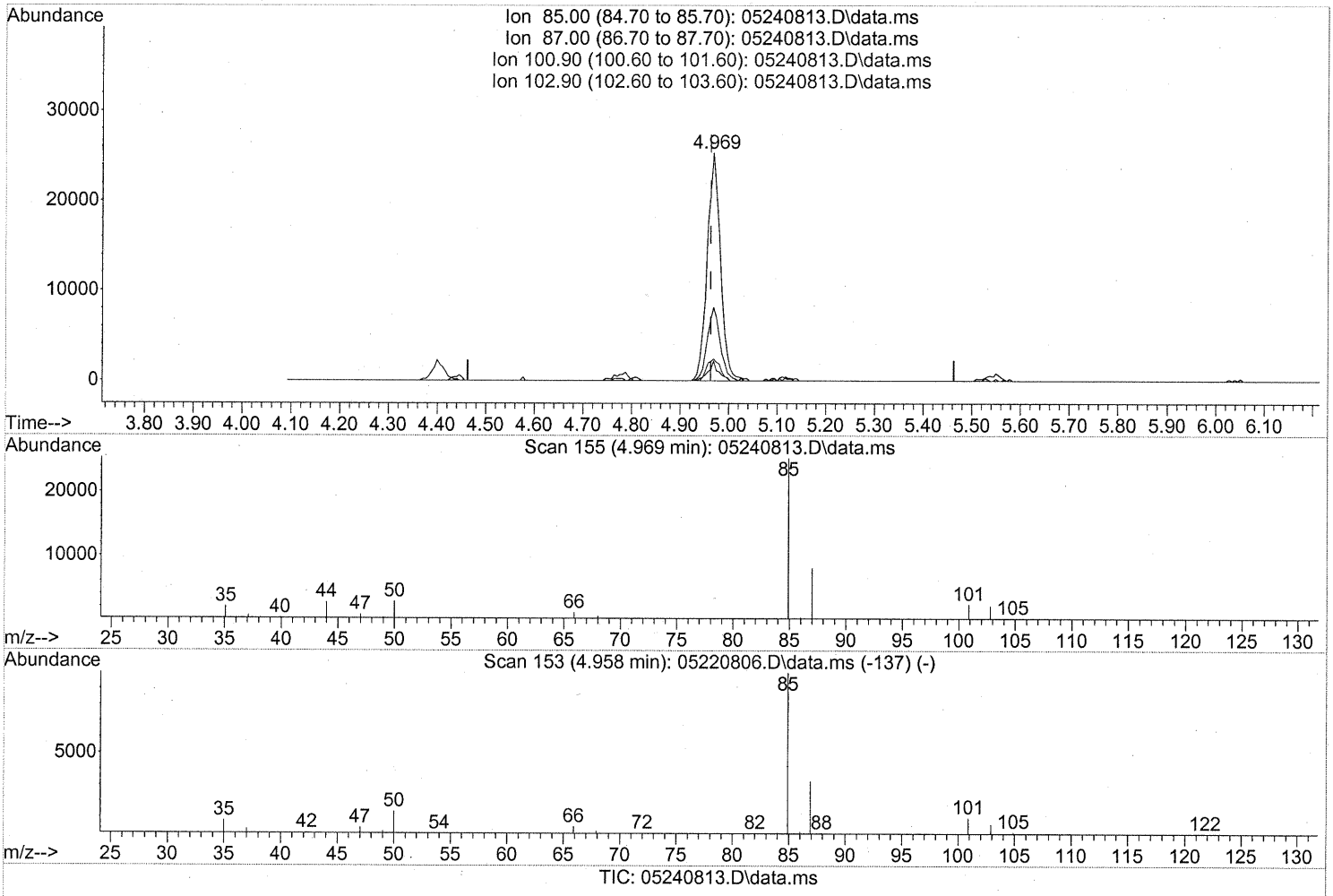
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	3890	~~0.057~~ ng		90
81) 2-Ethyltoluene	24.61	105	9525	0.063 ng		91
82) 1,2,4-Trimethylbenzene	24.88	105	36550	0.284 ng		88
83) n-Decane	24.98	57	14060	0.199 ng	#	57
84) Benzyl Chloride	25.05	91	3140	N.D. ✓		
85) 1,3-Dichlorobenzene	25.16	146	1435075	~~17.842~~ ng	NR	100
86) 1,4-Dichlorobenzene	25.16	146	1435075	18.405 ng		99
87) sec-Butylbenzene	25.21	105	19638	~~0.119~~ ng	NR#	1
88) p-Isopropyltoluene	25.40	119	9034	0.067 ng	#	69
89) 1,2,3-Trimethylbenzene	25.40	105	13140	0.104 ng		94
90) 1,2-Dichlorobenzene	25.16	146	1435075	~~18.812~~ ng	NR	100
91) d-Limonene	25.58	68	26606	0.519 ng		90
92) 1,2-Dibromo-3-Chloropr...	26.50	157	268	N.D. ✓		
93) n-Undecane	26.50	57	51240	0.692 ng	#	68
94) 1,2,4-Trichlorobenzene	27.63	180	638	N.D. ✓		
95) Naphthalene	27.77	128	84617	0.499 ng		89
96) n-Dodecane	27.73	57	93312	1.267 ng		83
97) Hexachloro-1,3-butadiene	28.18	225	2543	~~0.068~~ ng		86

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.66ng

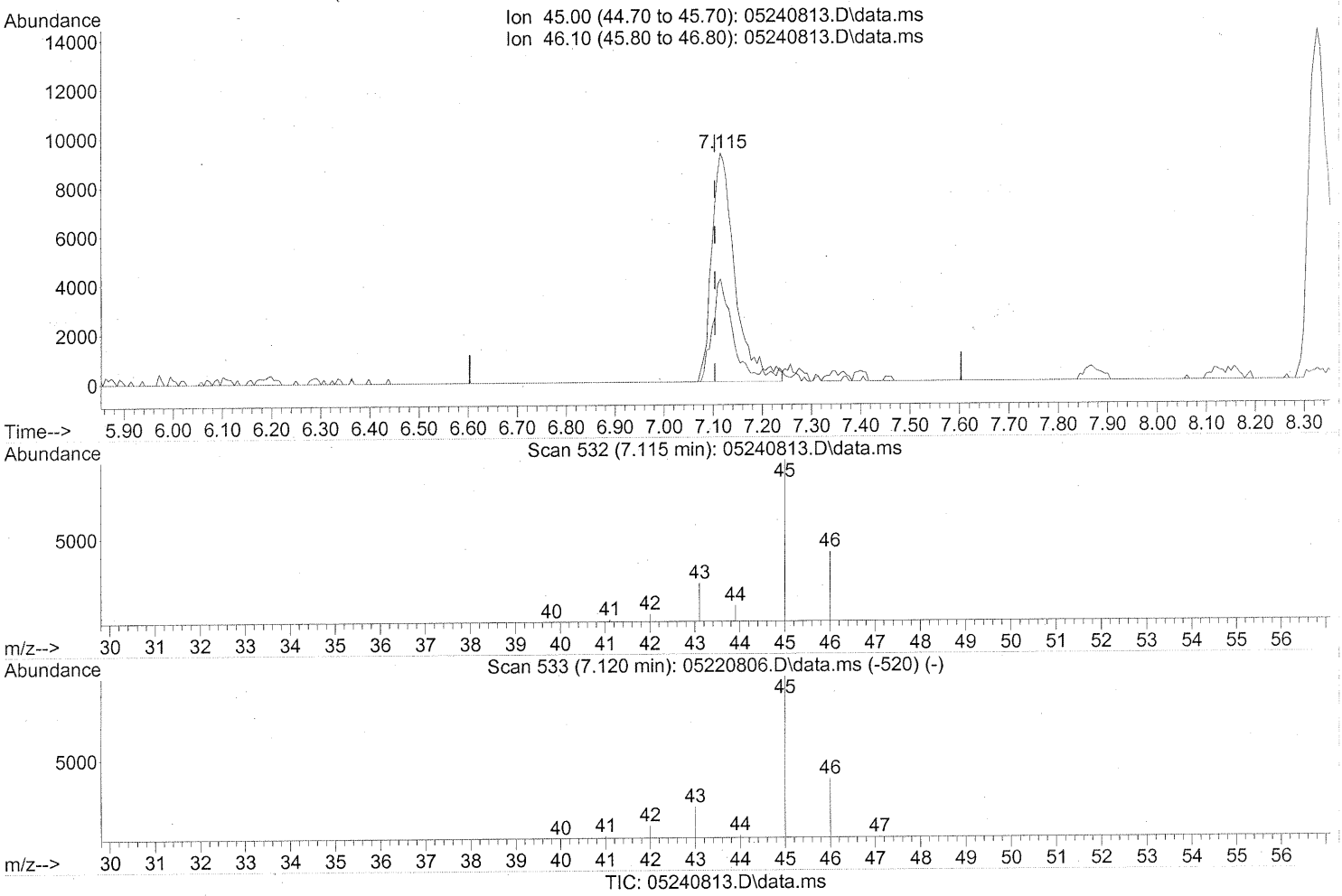
response 48074

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.18
100.90	9.30	9.70
102.90	6.00	6.16

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801422-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:20:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 1.17ng

response 30811

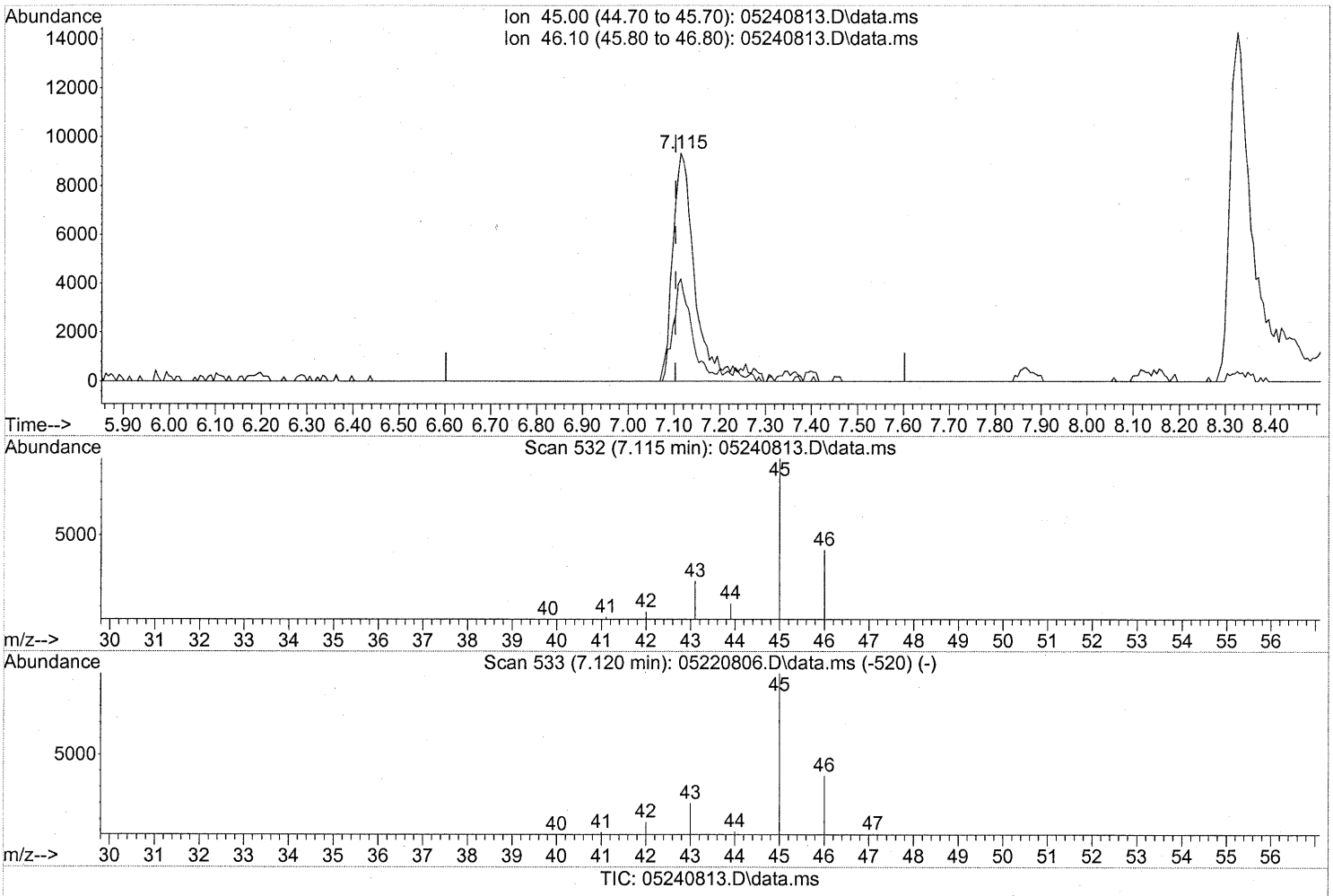
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	40.38
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 1.29ng m

response 34071

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.51
0.00	0.00	0.00
0.00	0.00	0.00

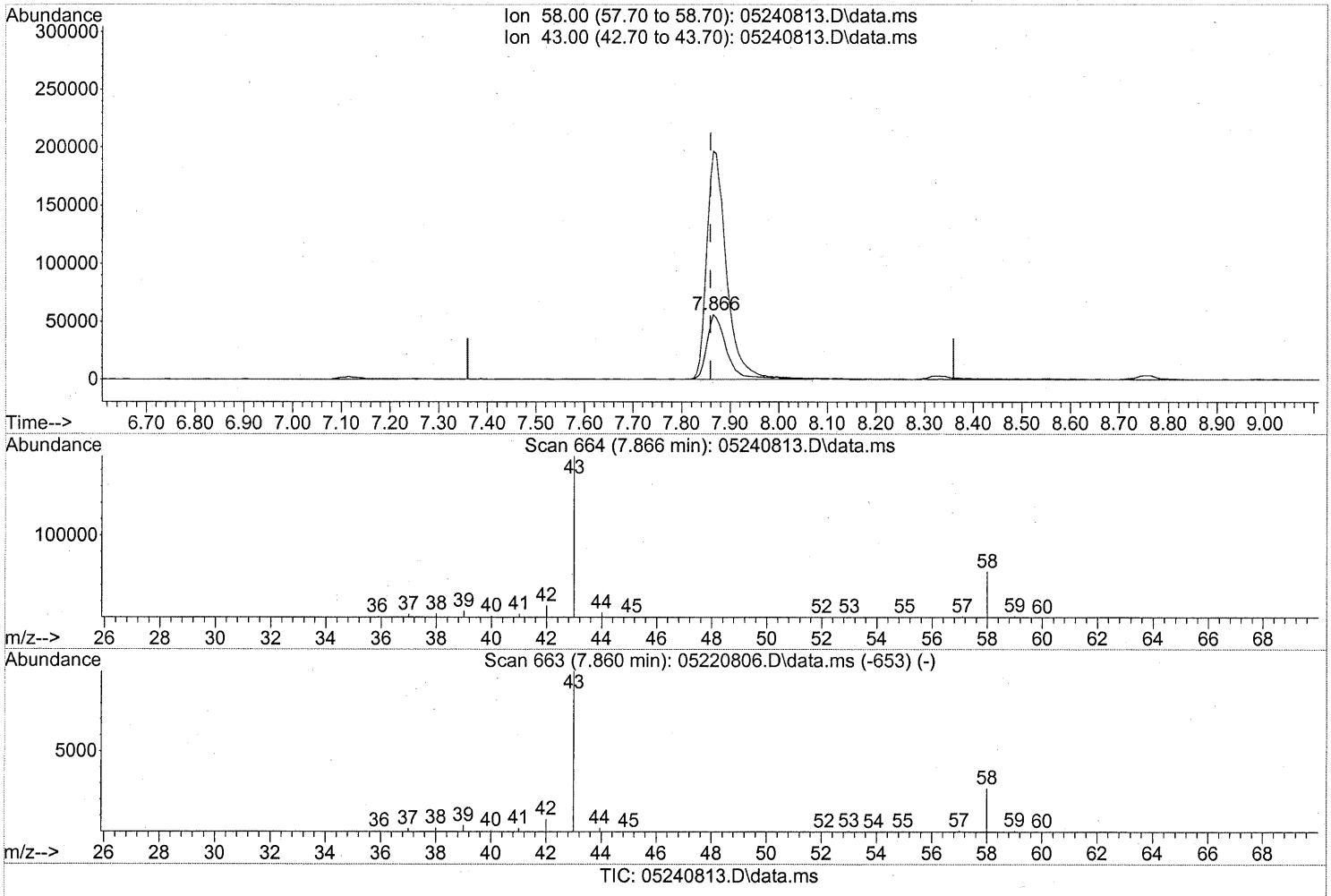
incl. tailing
5/29/08

205

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(13) Acetone (T)

7.866min (+0.006) 5.78ng

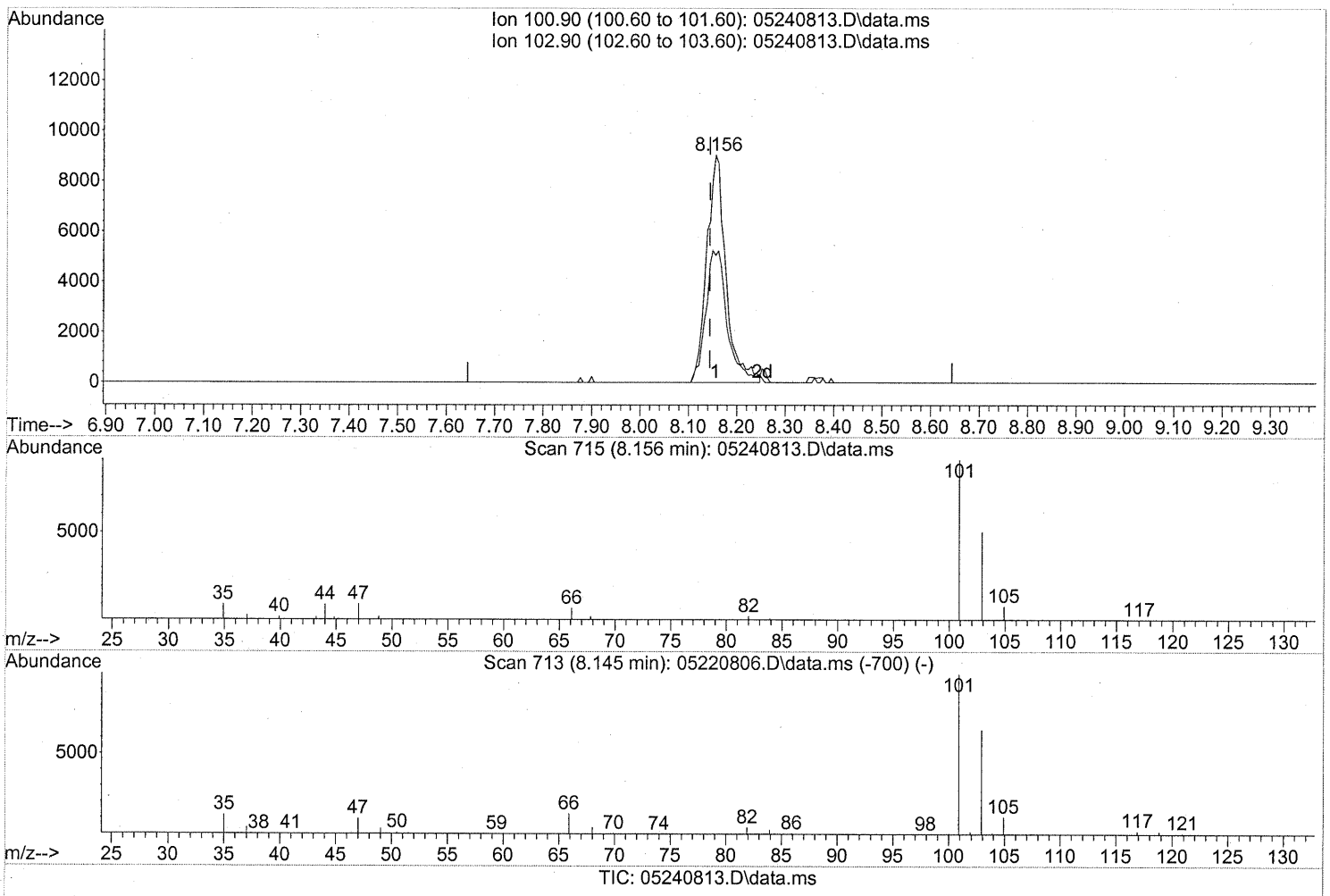
response 156331

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	357.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.39ng

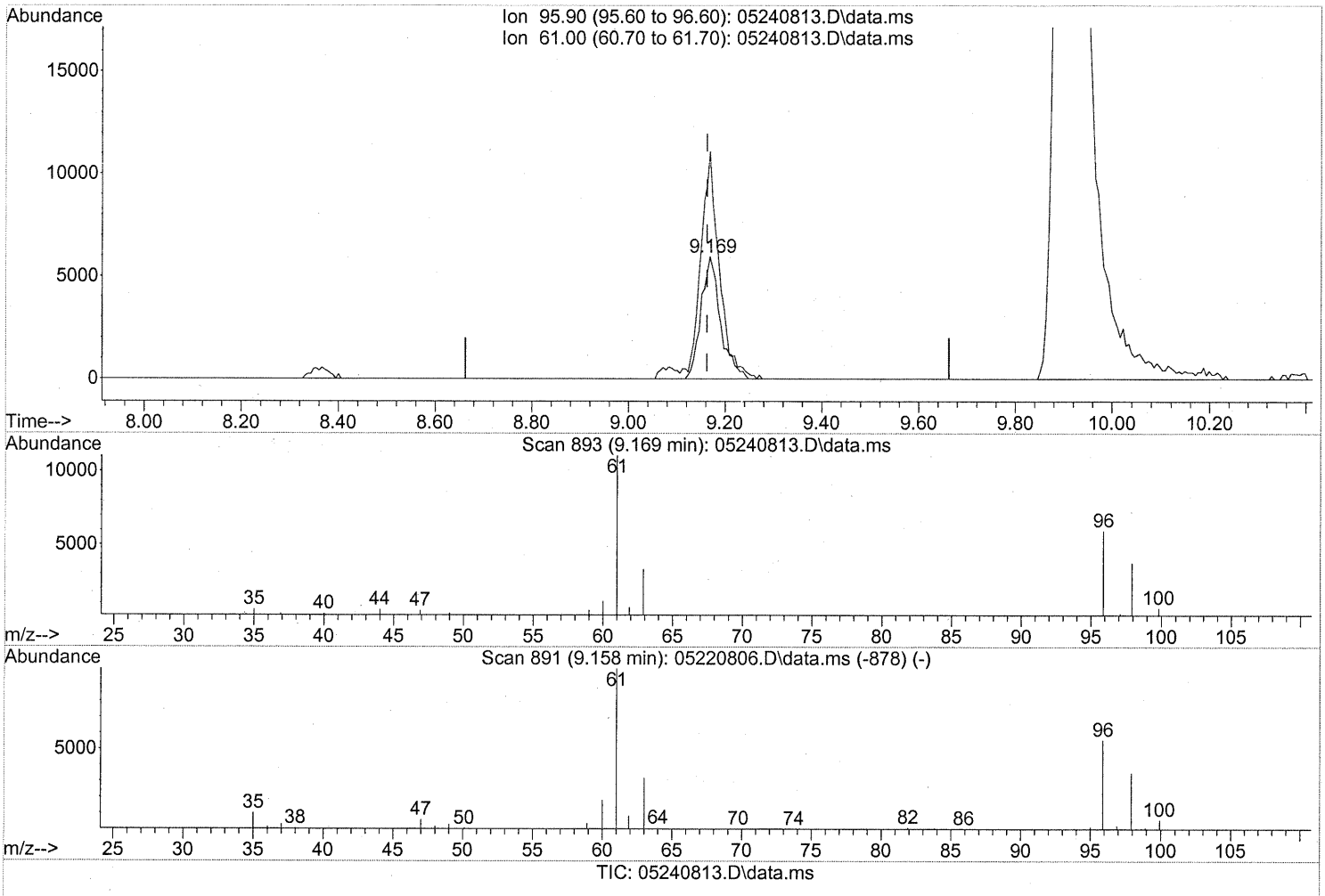
response 24776

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.60ng

response 16568

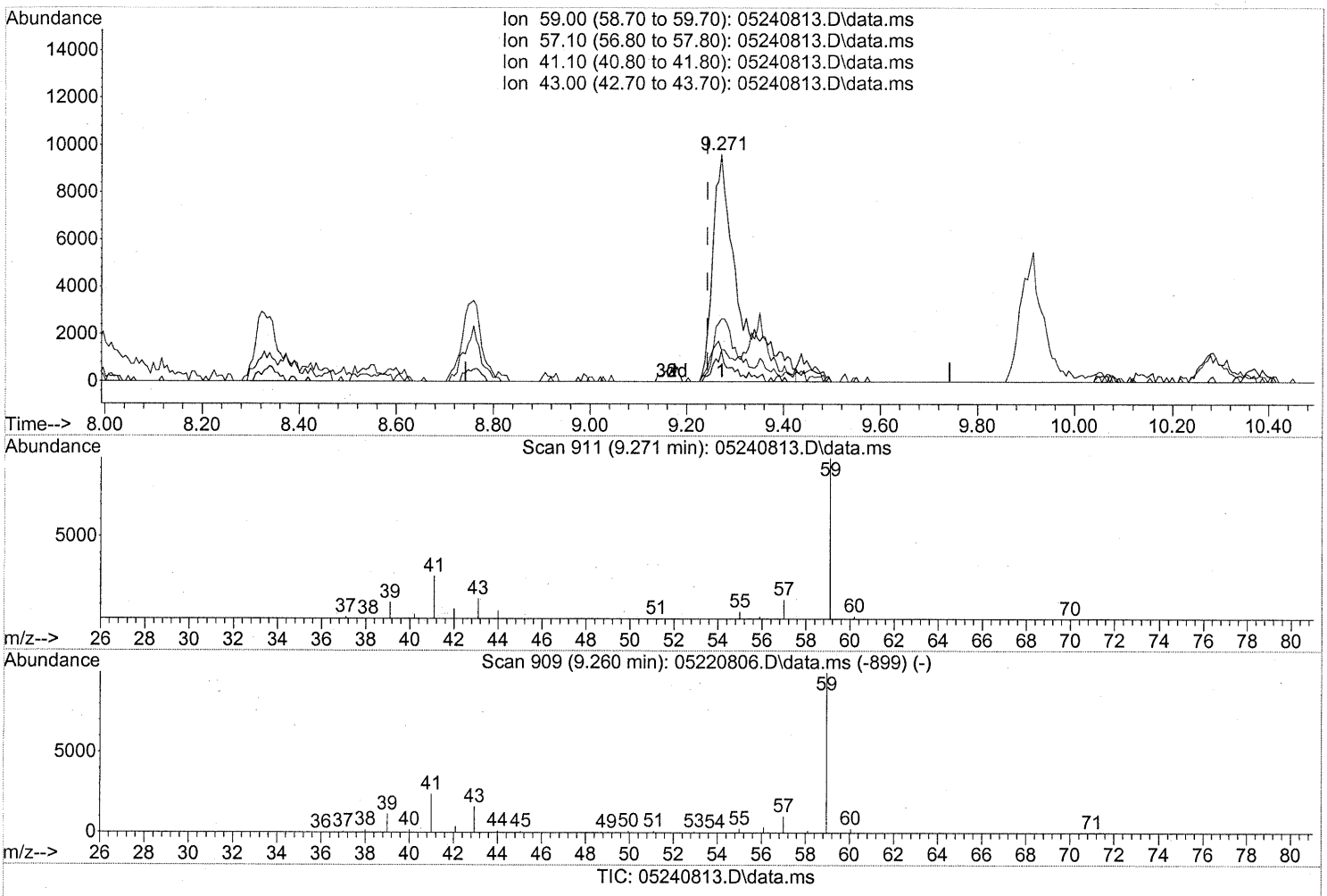
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	177.75#
0.00	0.00	0.00
0.00	0.00	0.00

208

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.029) 0.50ng

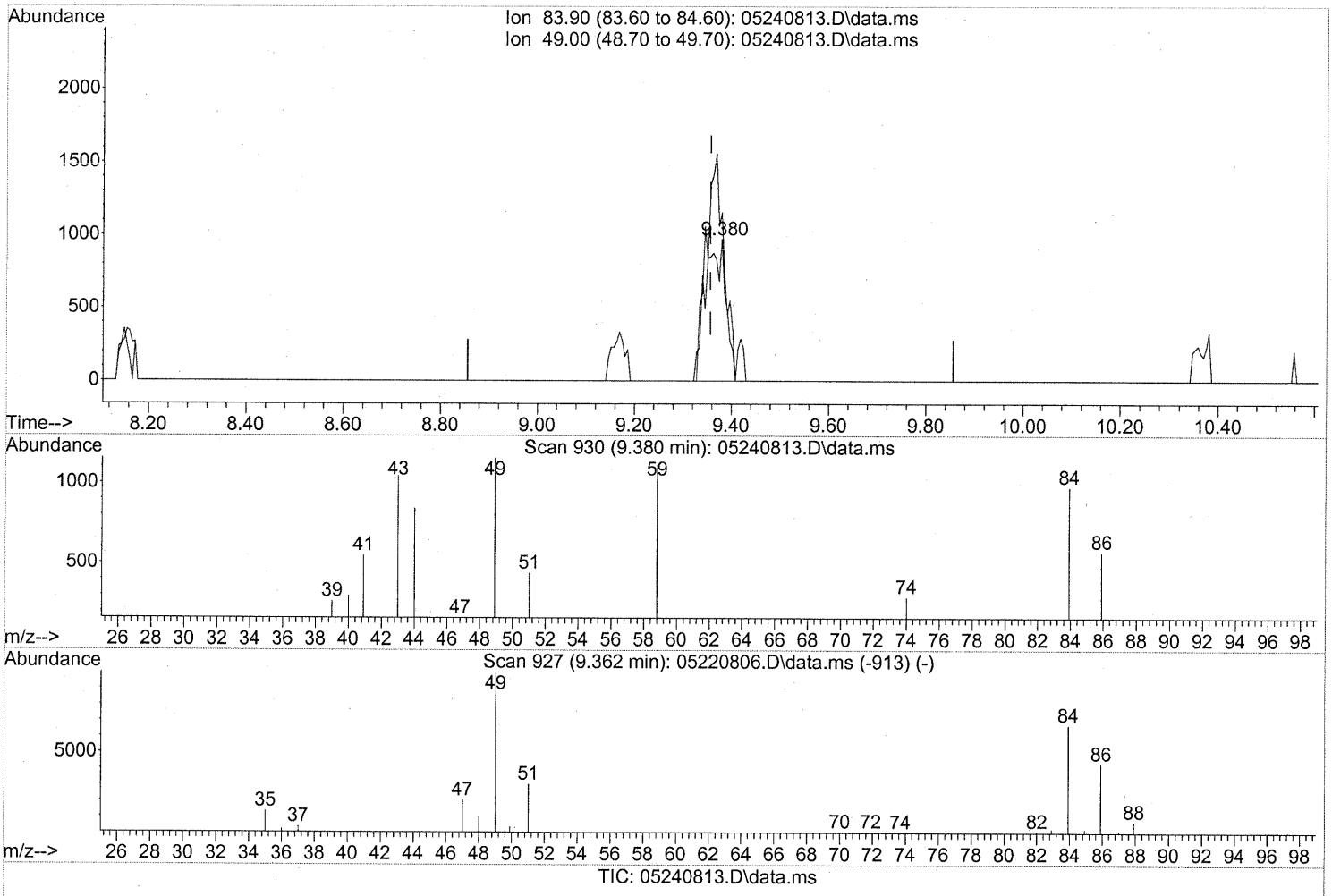
response 36502

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.11
41.10	20.10	25.04
43.00	12.30	13.88

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(19) Methylene Chloride (T)

9.380min (+0.023) 0.09ng

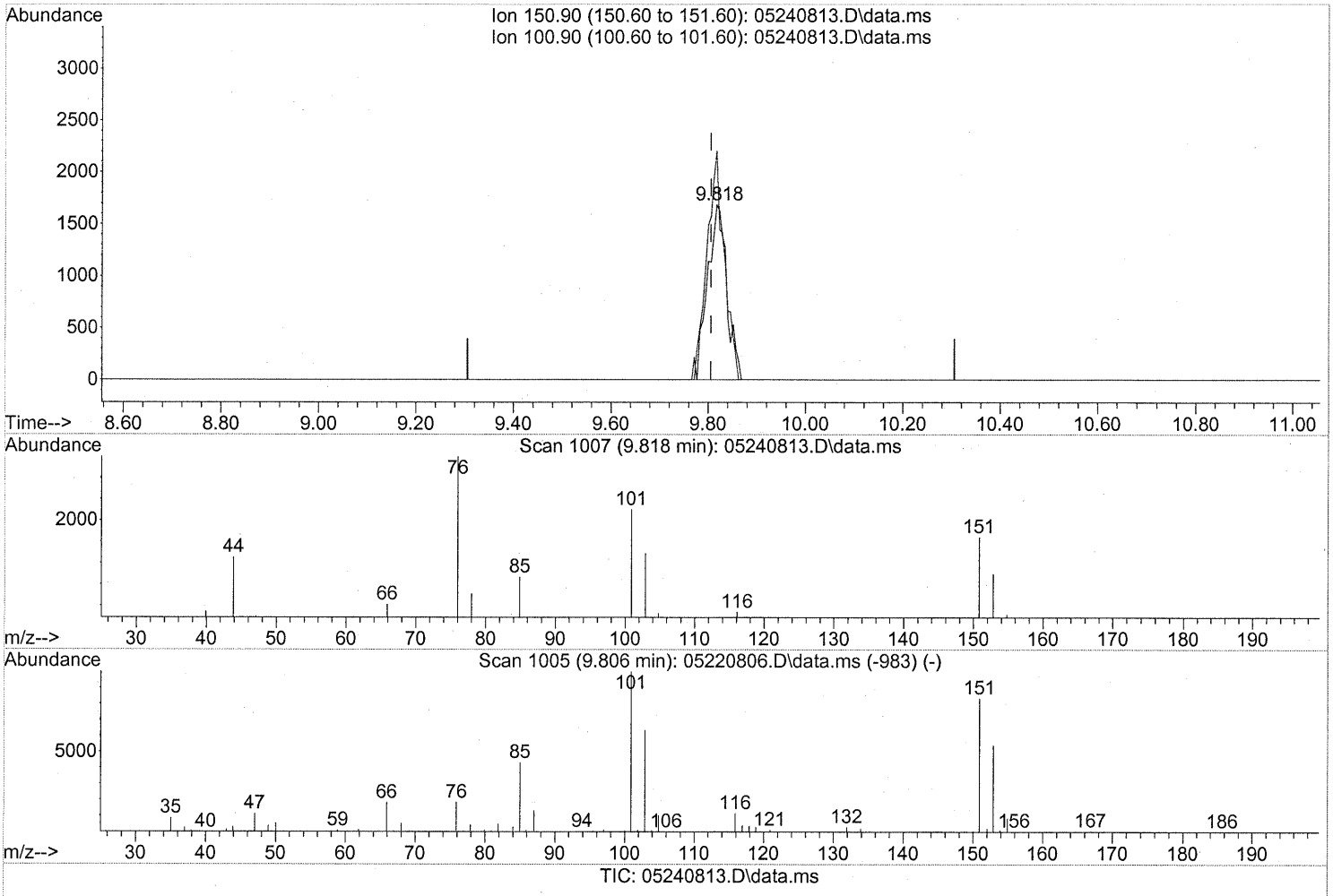
response 2819

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	140.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.16ng

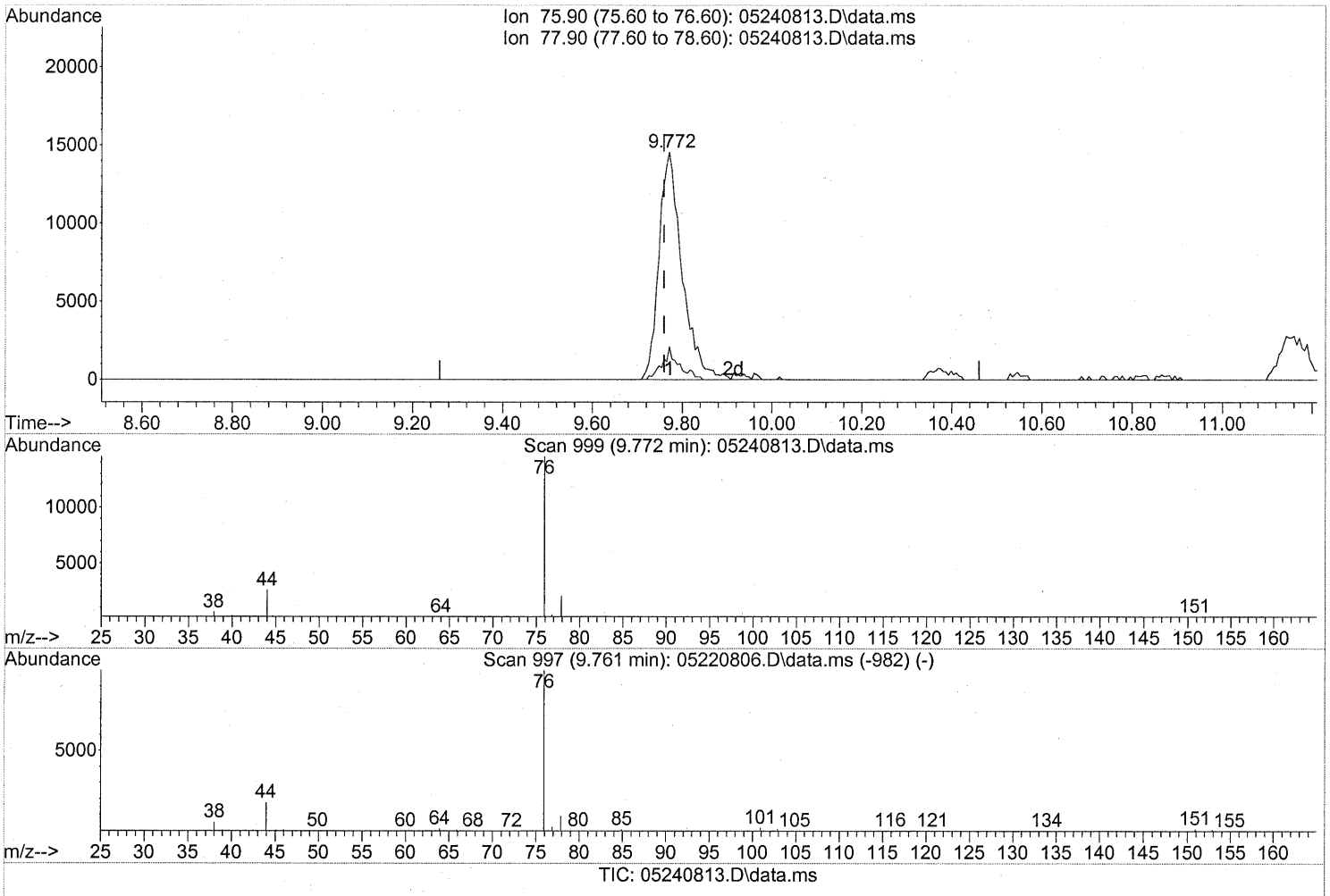
response 4634

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.45ng

response 51071

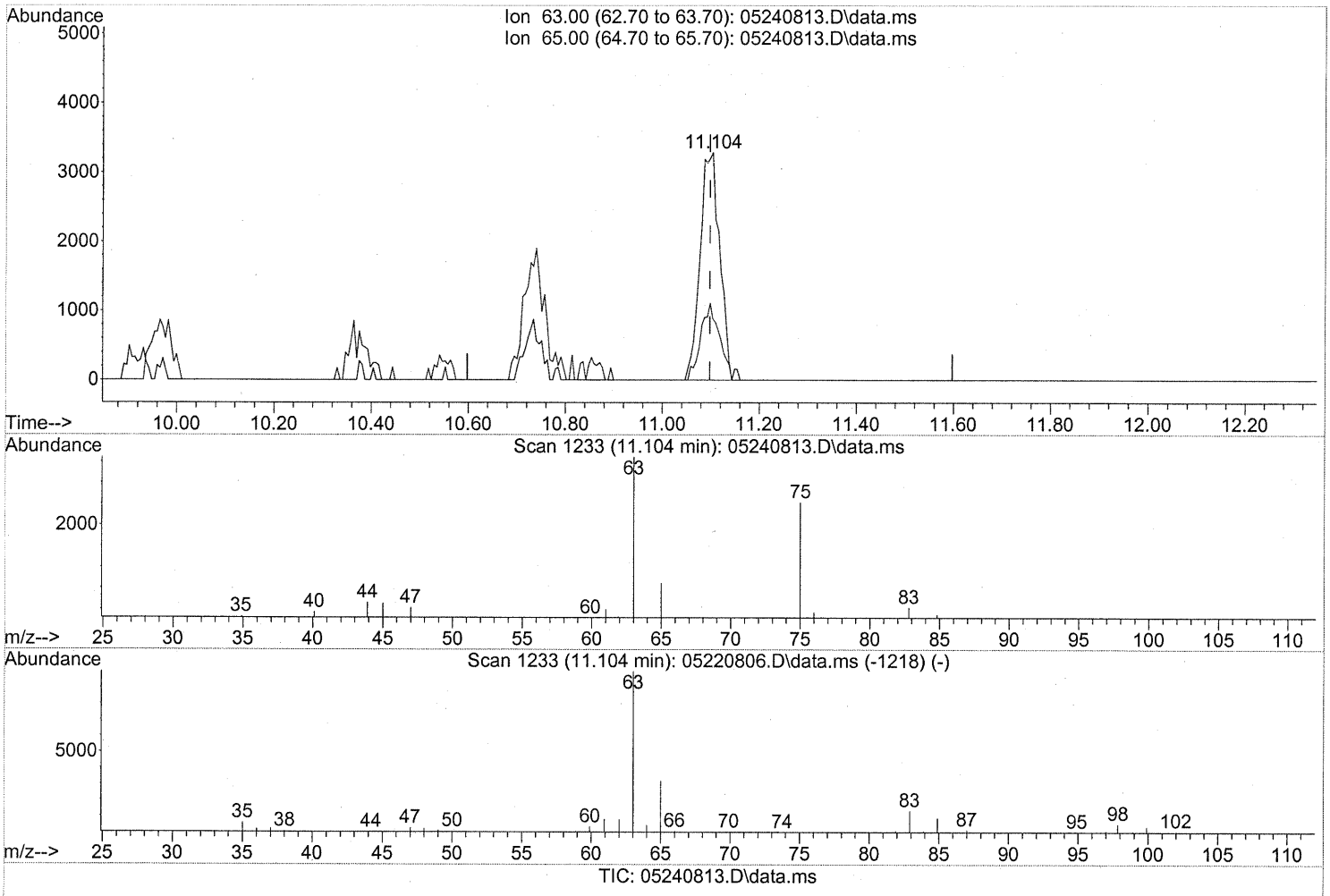
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	10.08
0.00	0.00	0.00
0.00	0.00	0.00

212

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.18ng

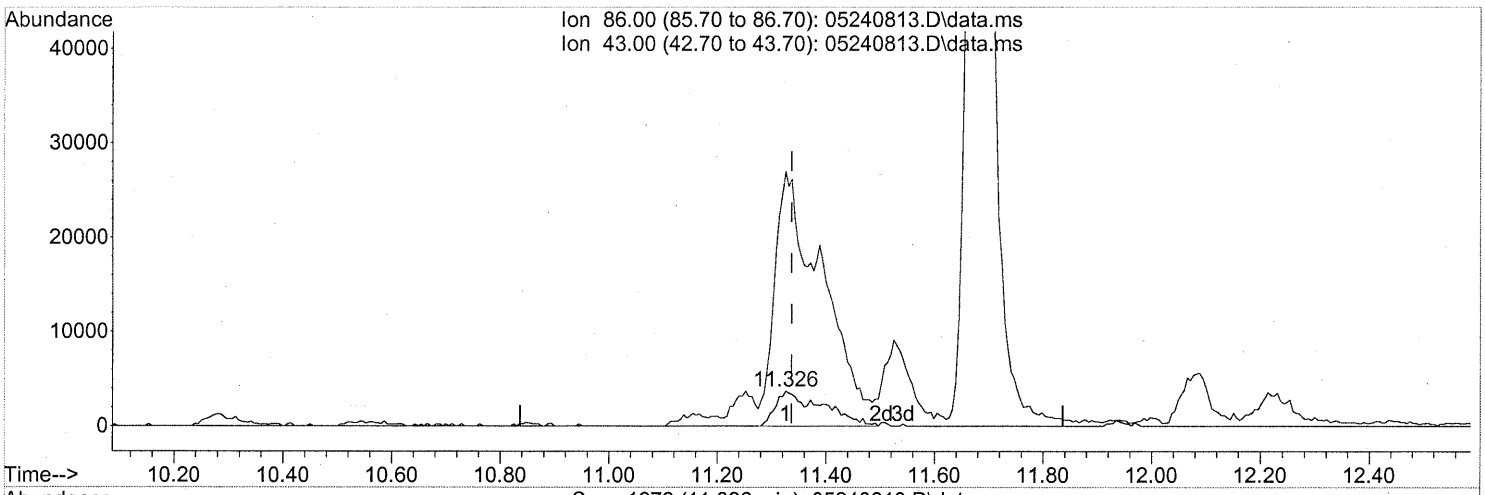
response 9226

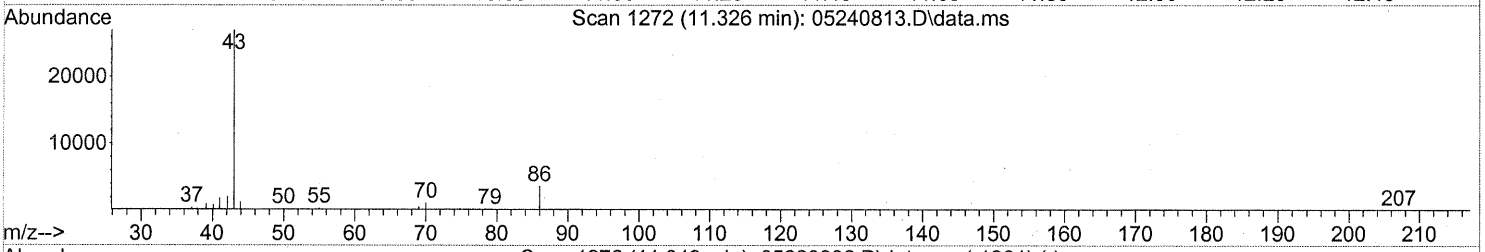
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	32.21
0.00	0.00	0.00
0.00	0.00	0.00

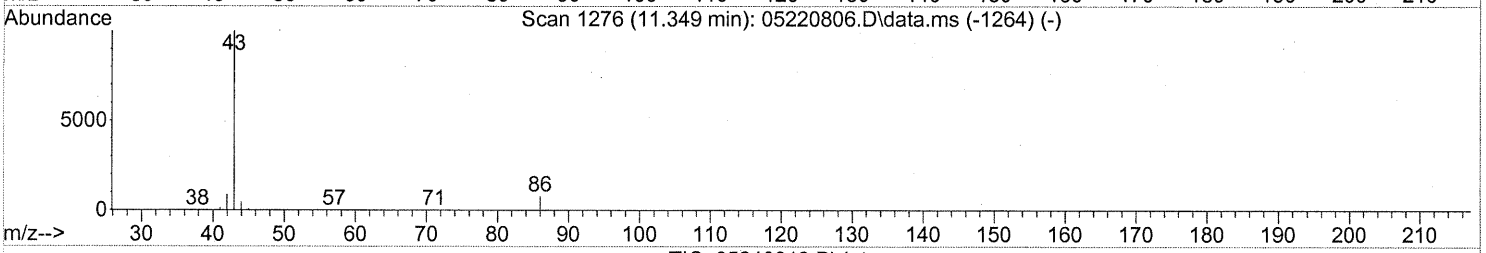
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240813.D\data.ms

(26) Vinyl Acetate (T)

11.326min (-0.011) 4.36ng

response 21798

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	729.08#
0.00	0.00	0.00
0.00	0.00	0.00

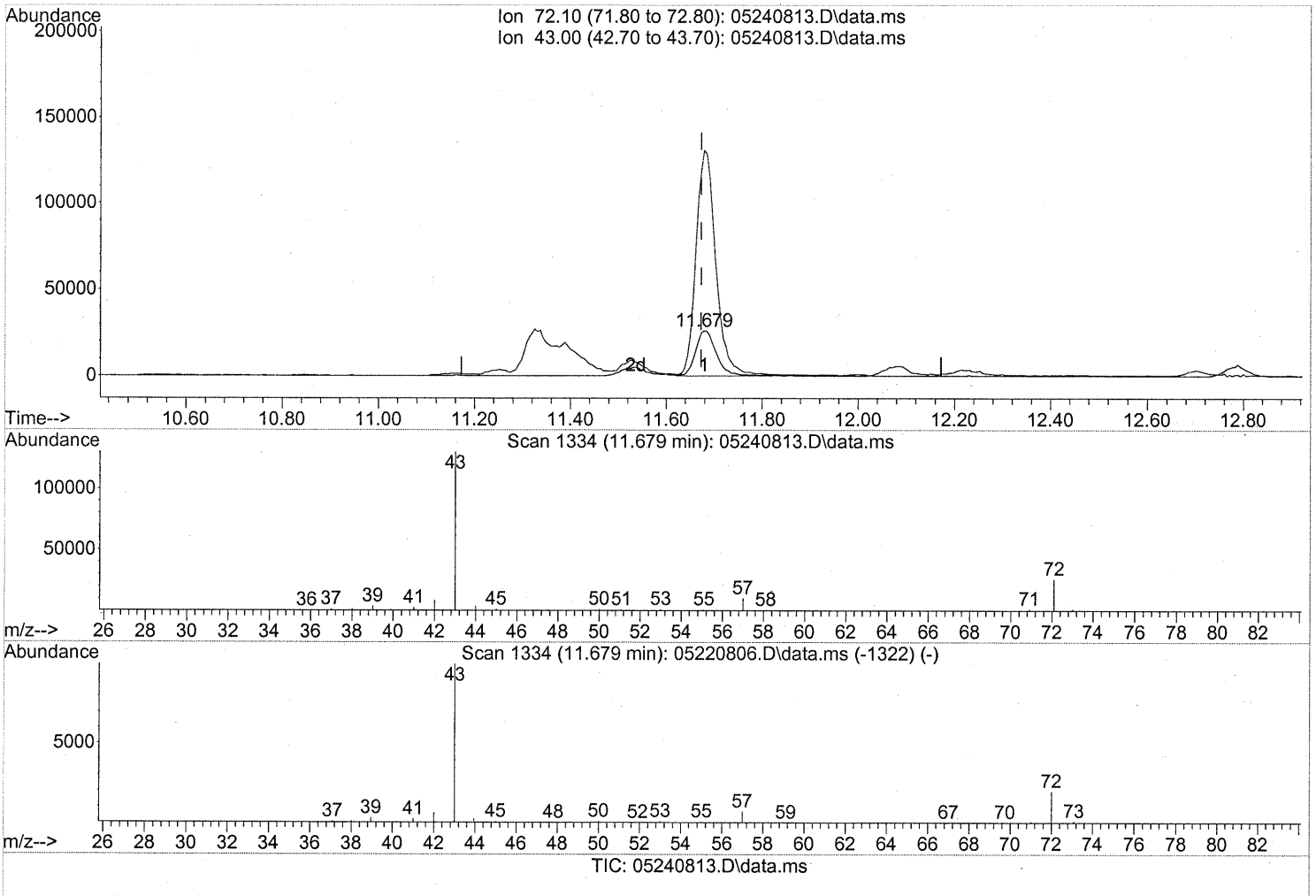
M

214

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 3.91ng

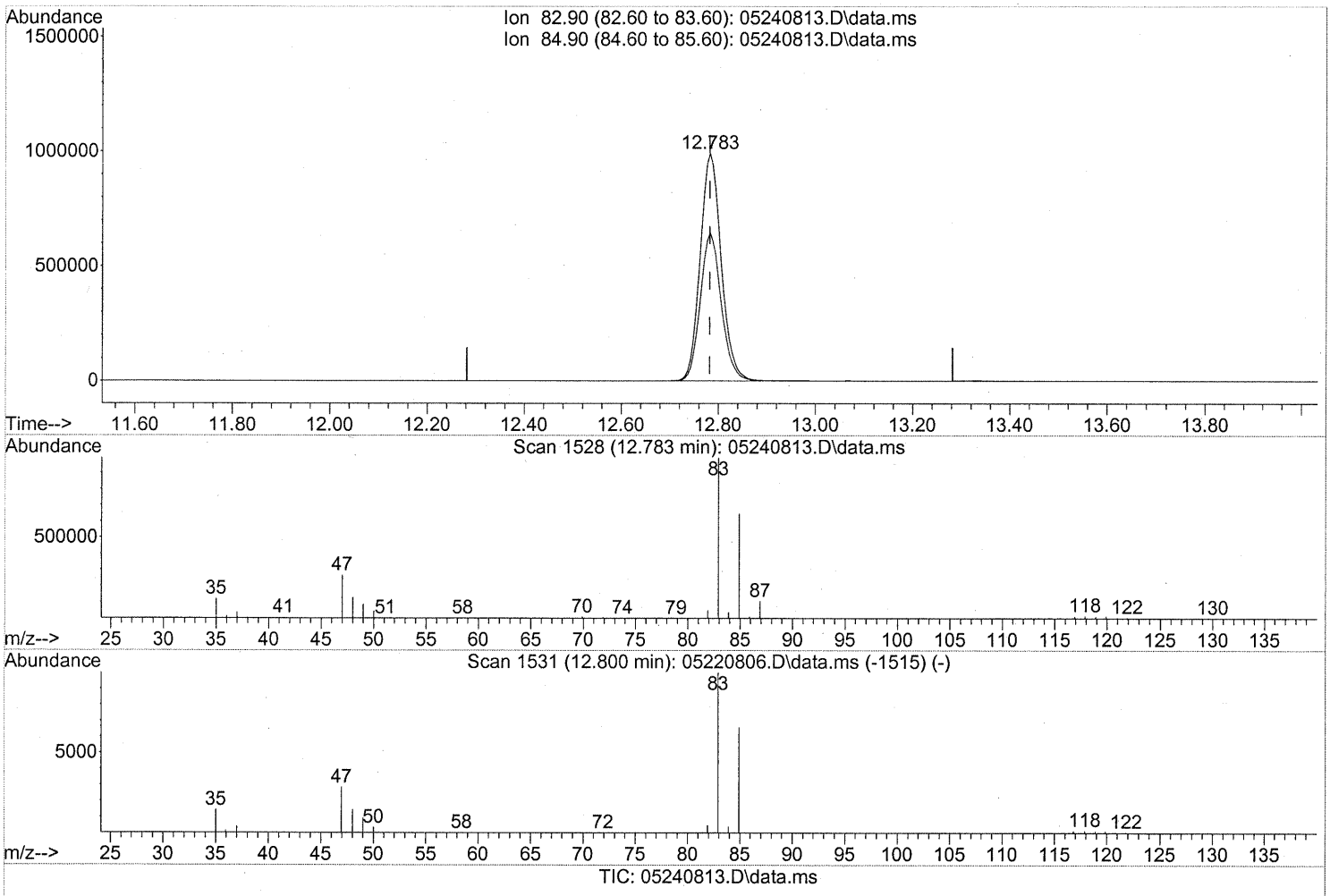
response 77129

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	477.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(32) Chloroform (T)

12.783min (+0.000) 65.19ng

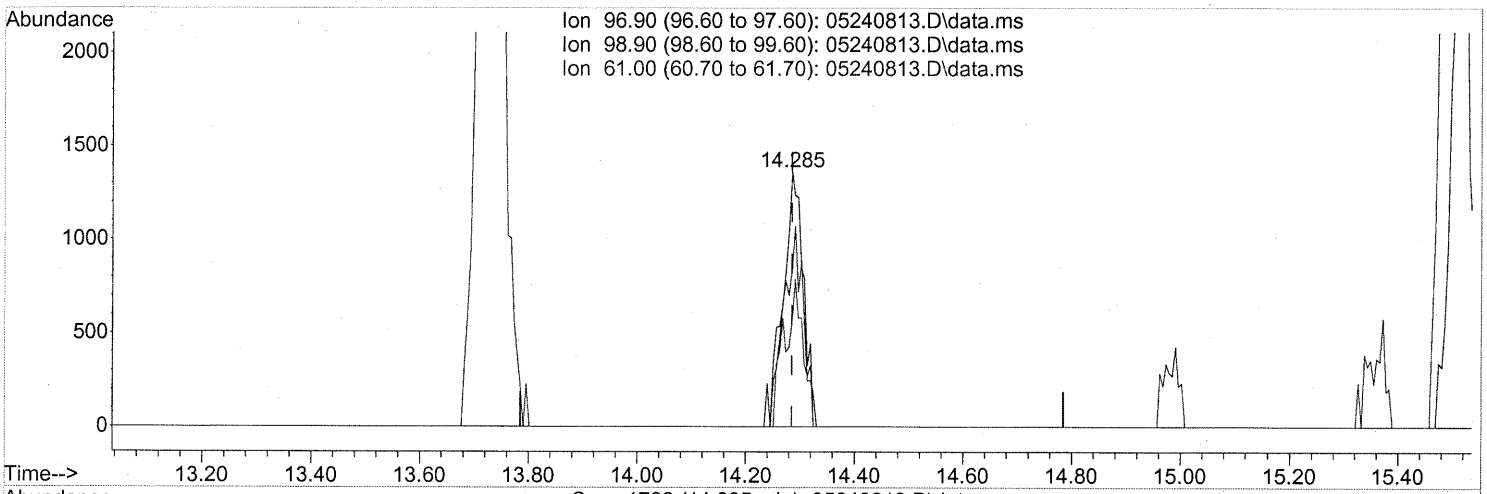
response 2986644

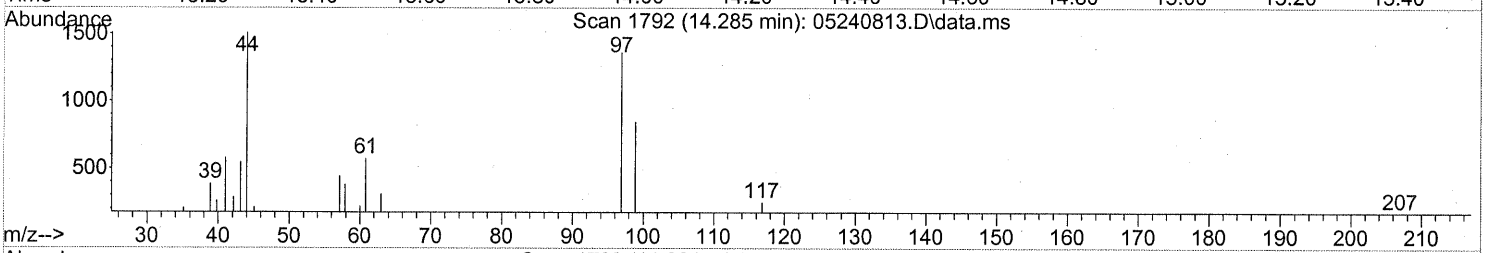
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.74
0.00	0.00	0.00
0.00	0.00	0.00

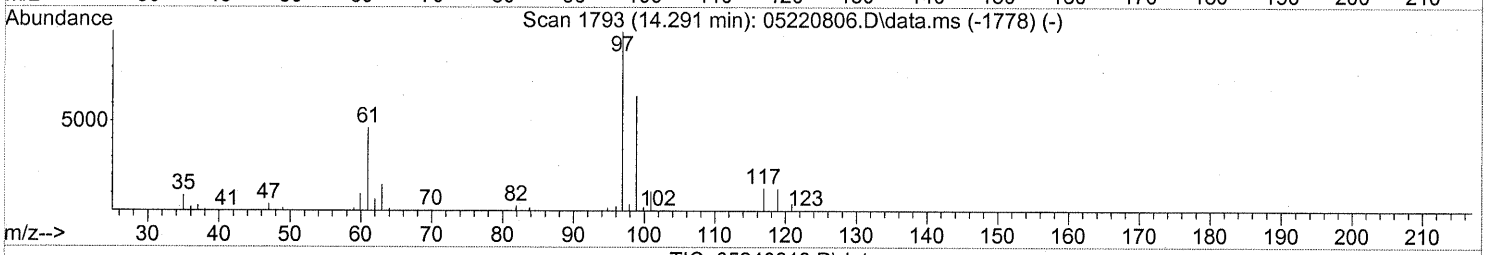
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240813.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.285min (+0.000) 0.07ng

response 3537

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	76.36
61.00	50.50	37.38
0.00	0.00	0.00

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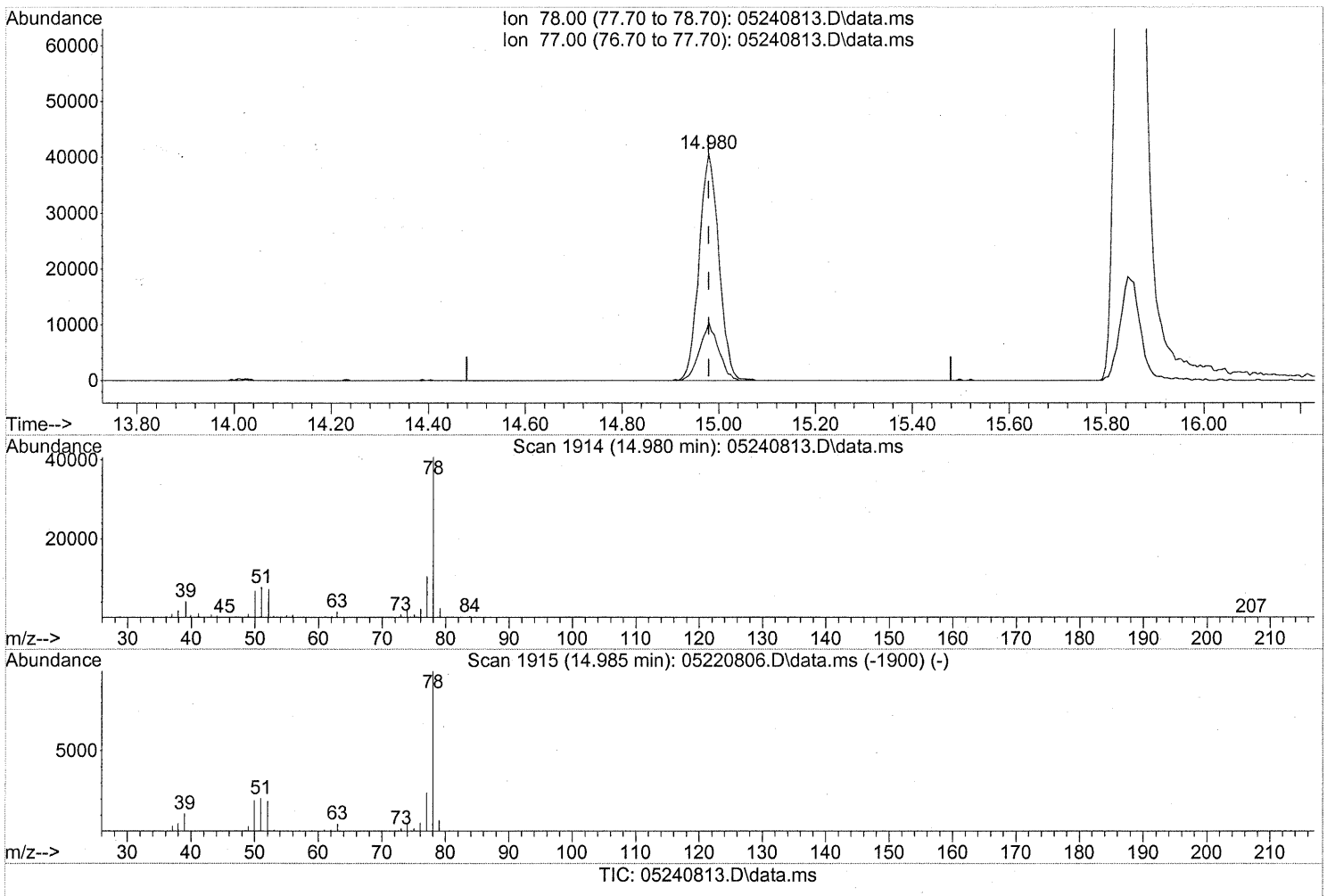
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(41) Benzene (T)

14.980min (+0.000) 1.02ng

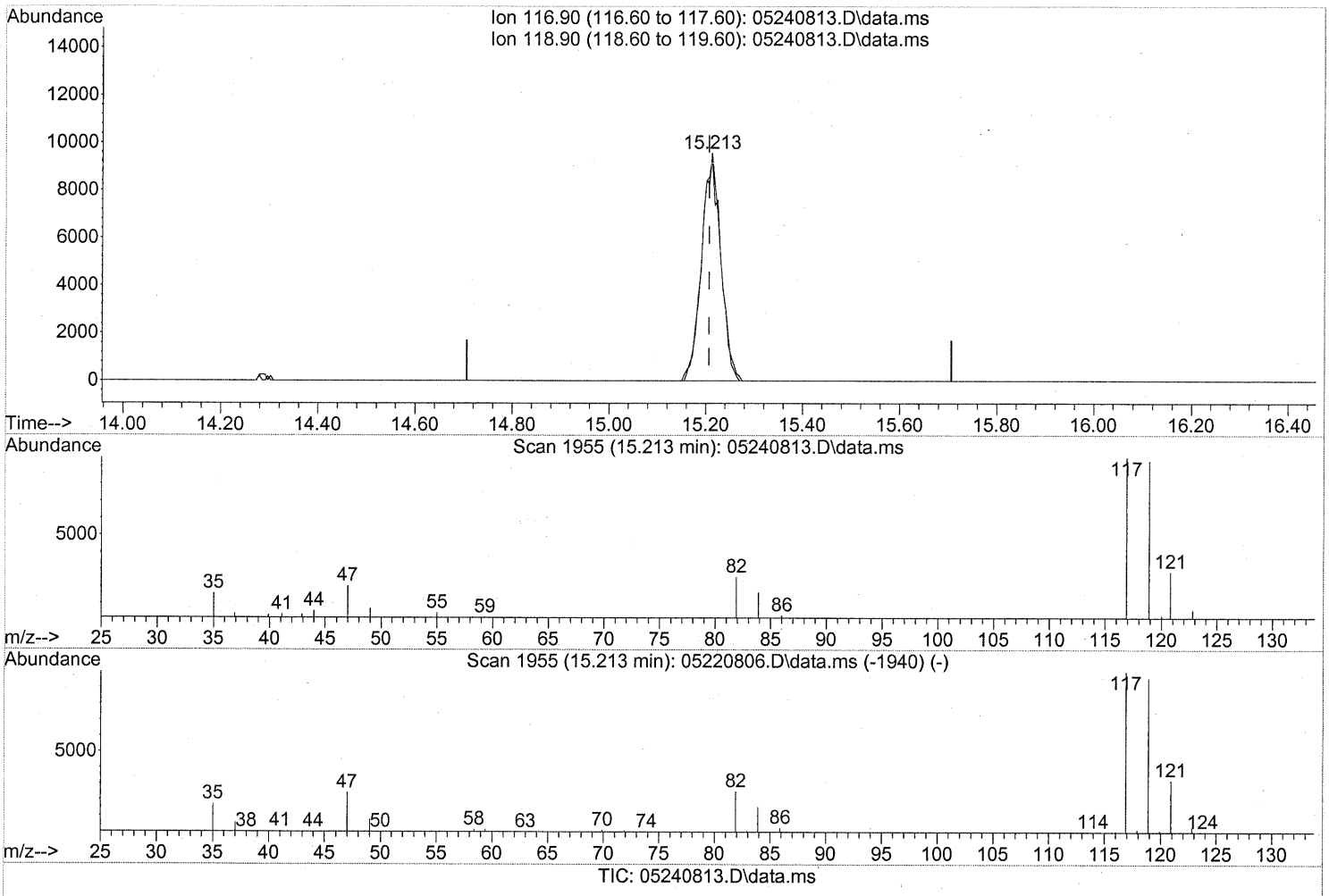
response 114414

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.60ng

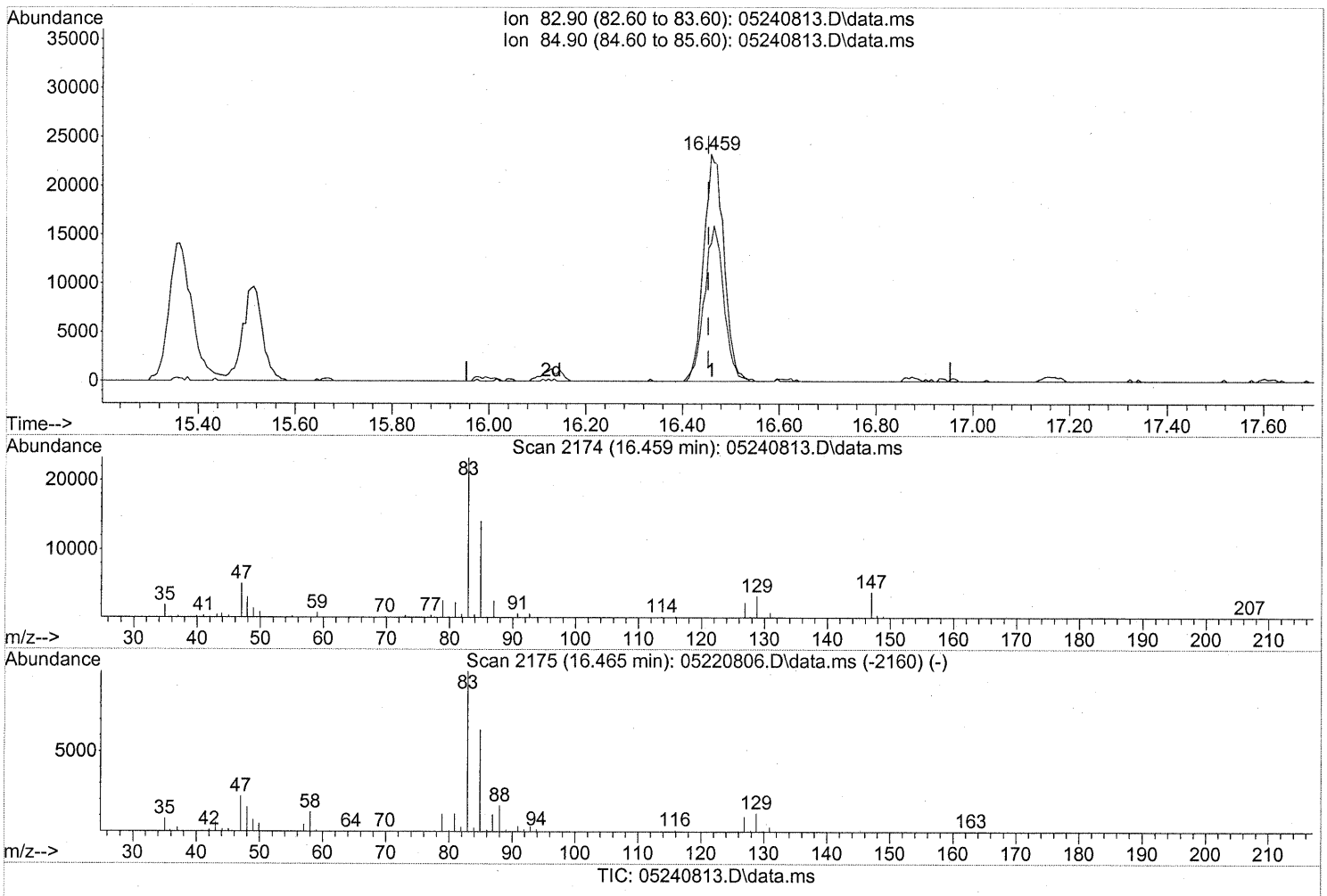
response 26049

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	100.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 1.79ng

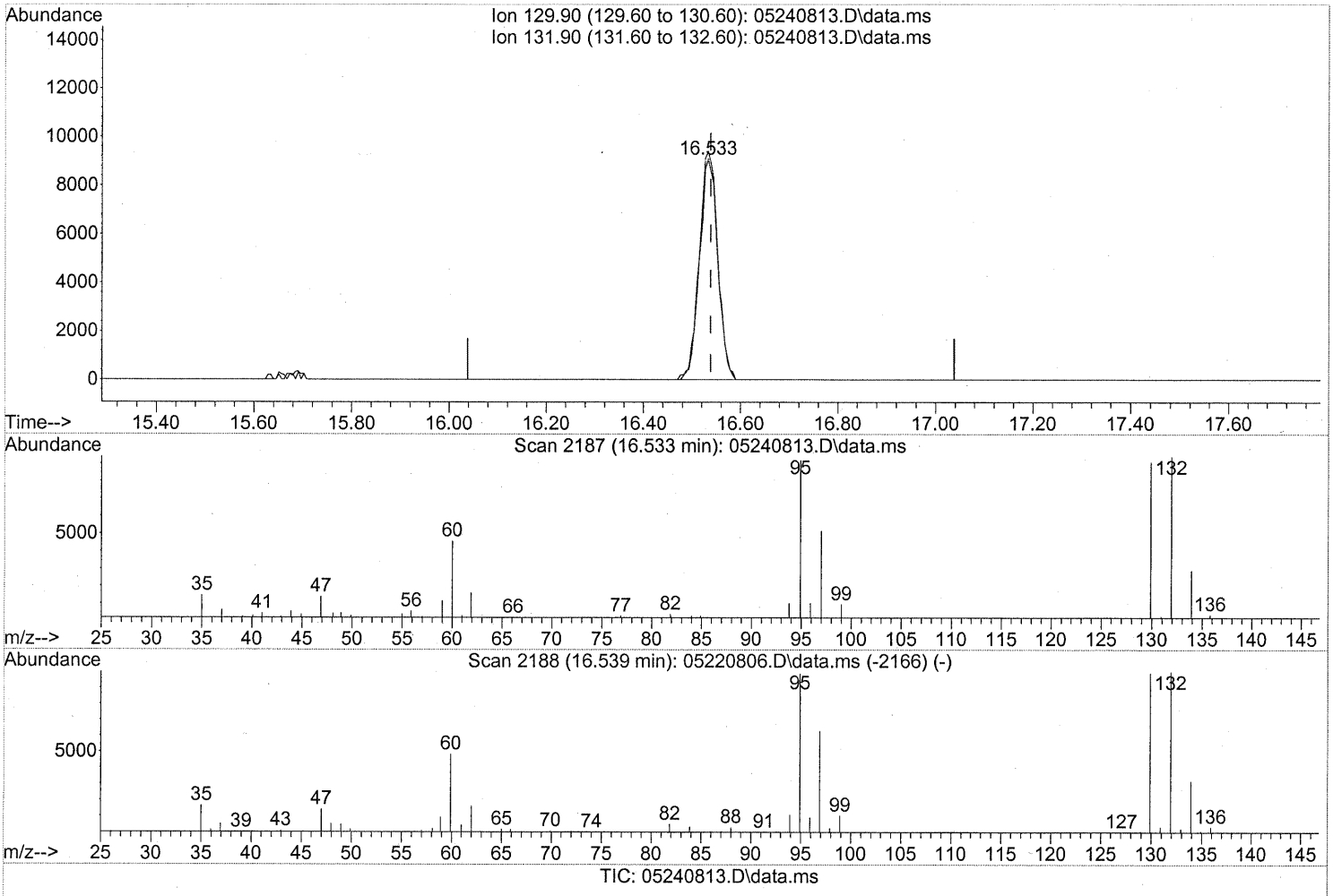
response 67738

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	65.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.69ng

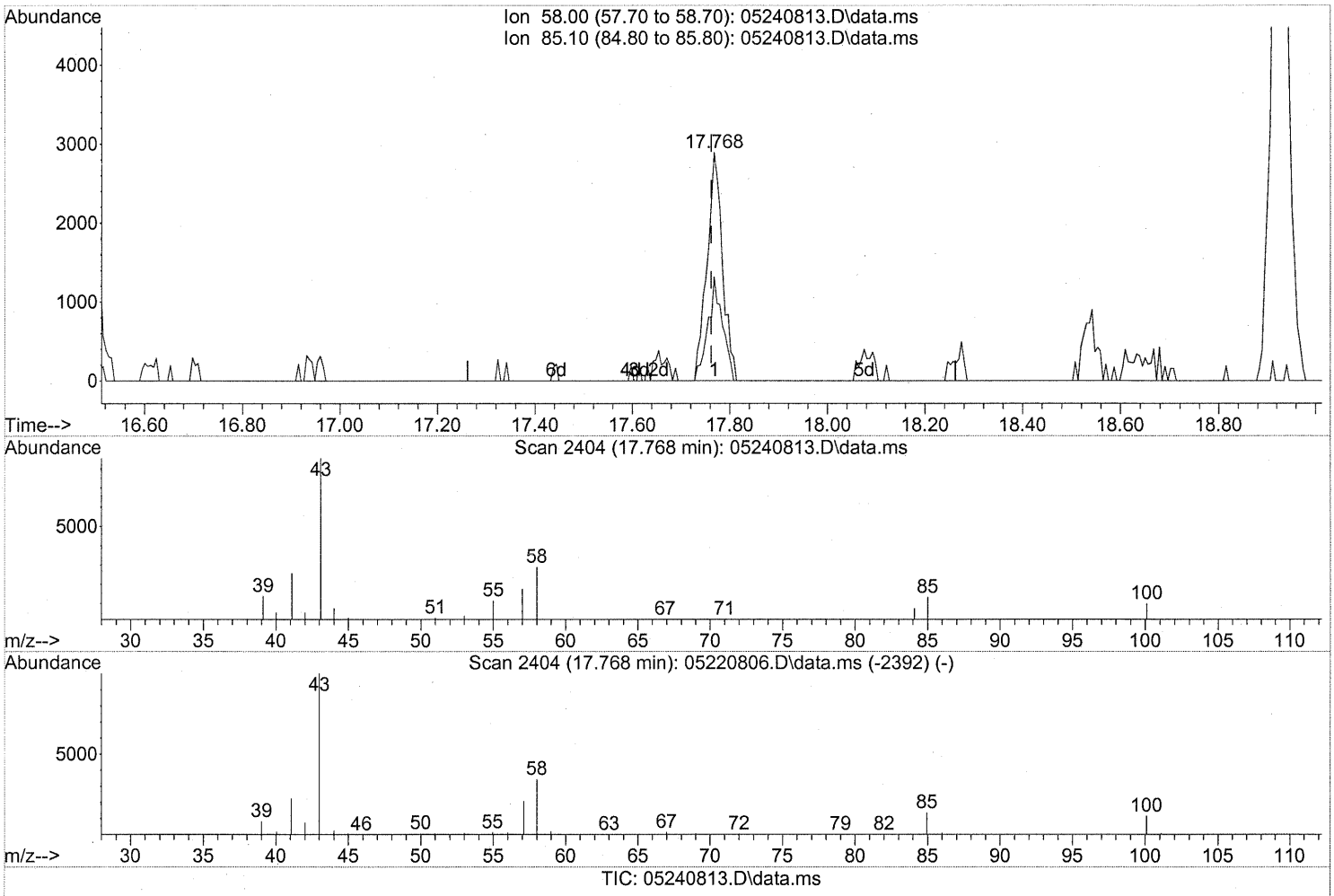
response 23699

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	104.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

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

17.768min (+0.006) 0.21ng

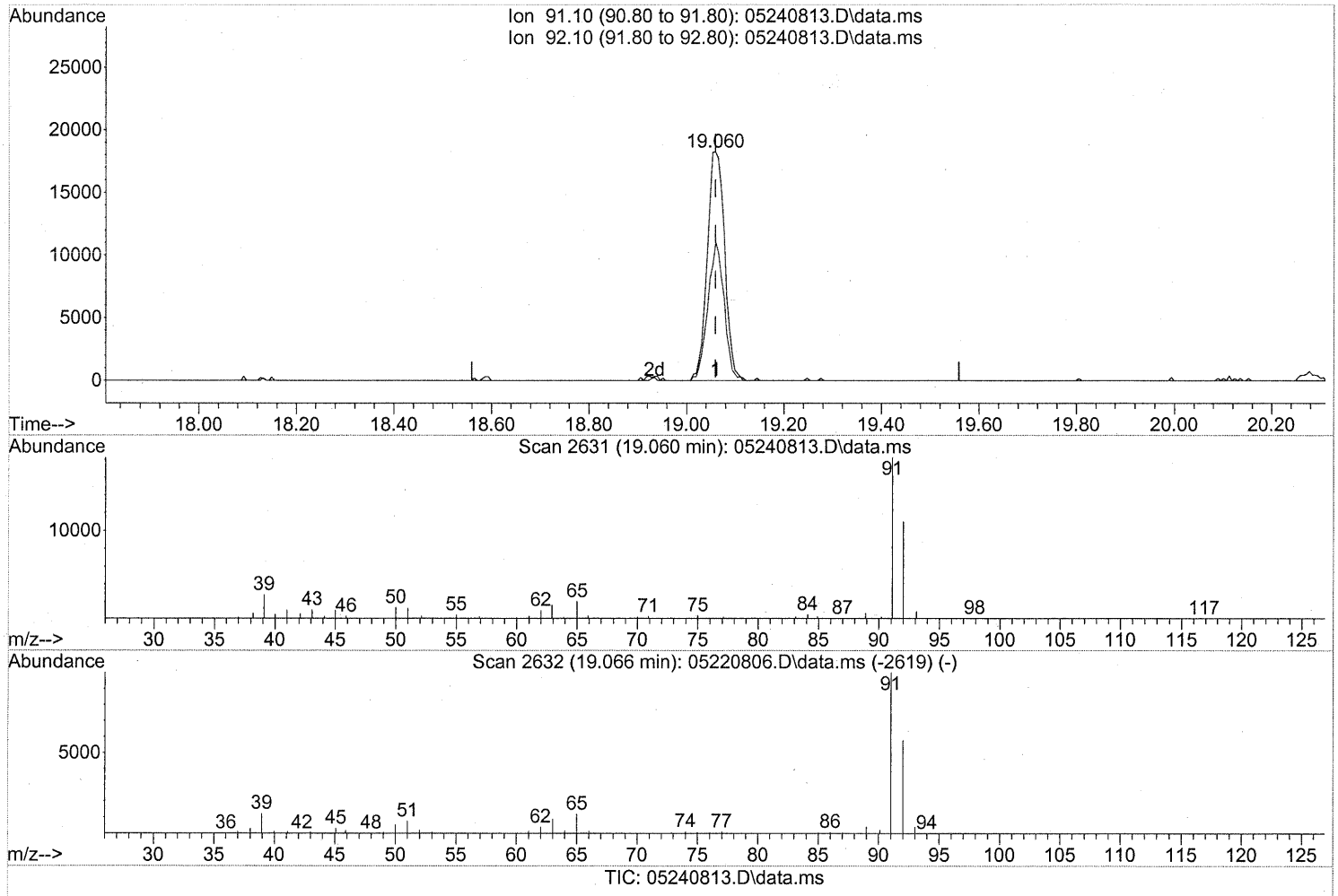
response 6381

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	42.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 0.35ng

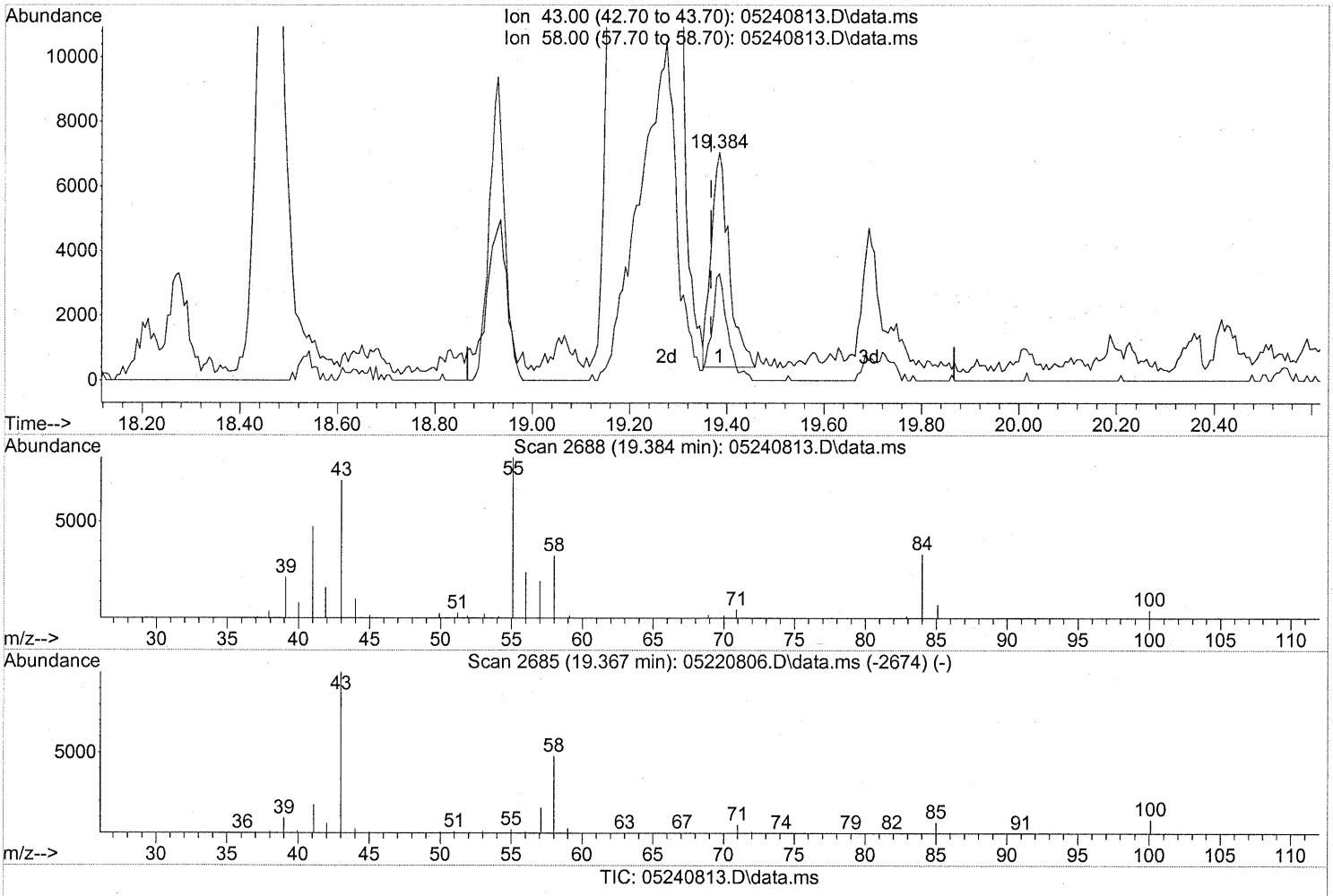
response 45127

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	56.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(59) 2-Hexanone (T)

19.384min (+0.017) 0.19ng

response 17009

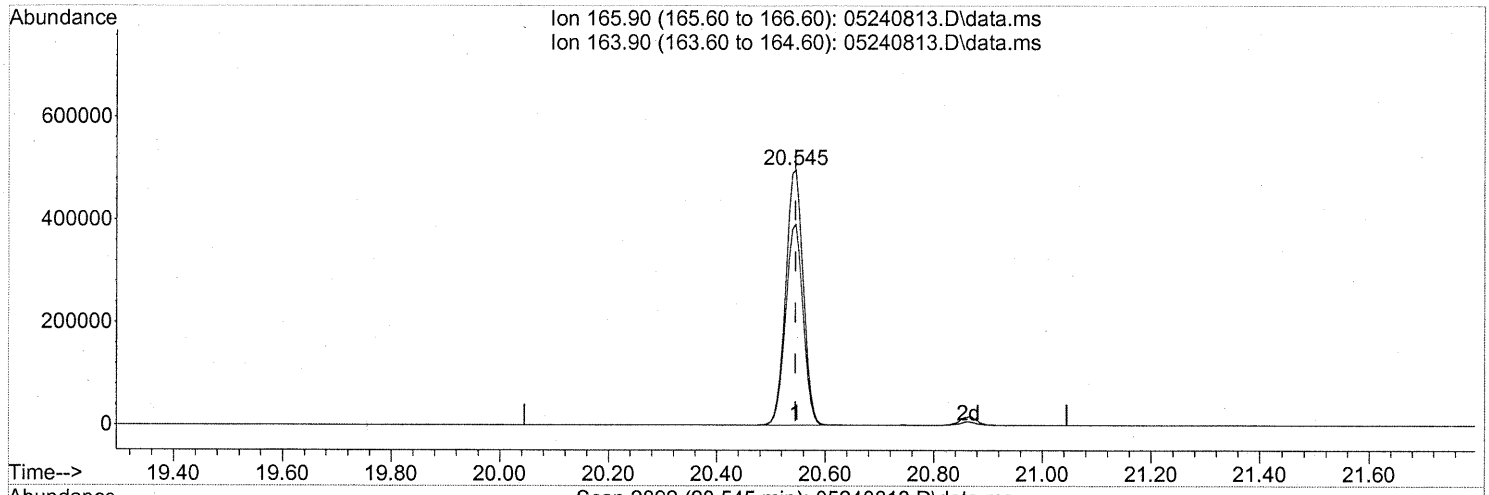
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	43.25
0.00	0.00	0.00
0.00	0.00	0.00

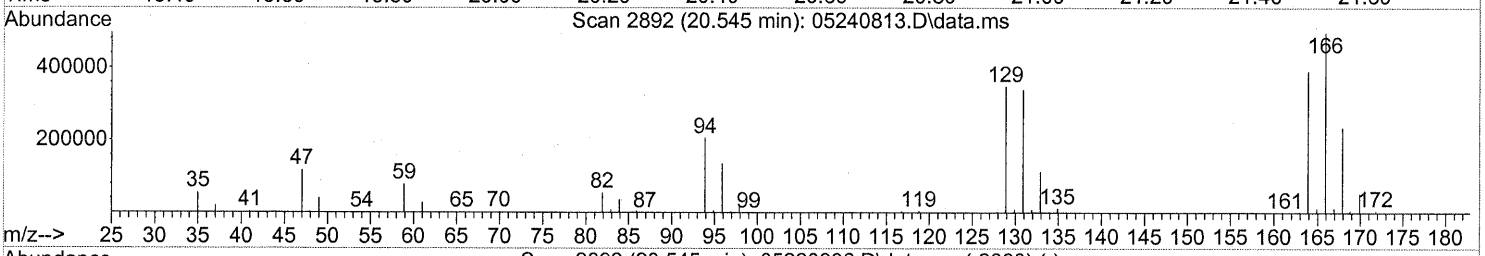
224

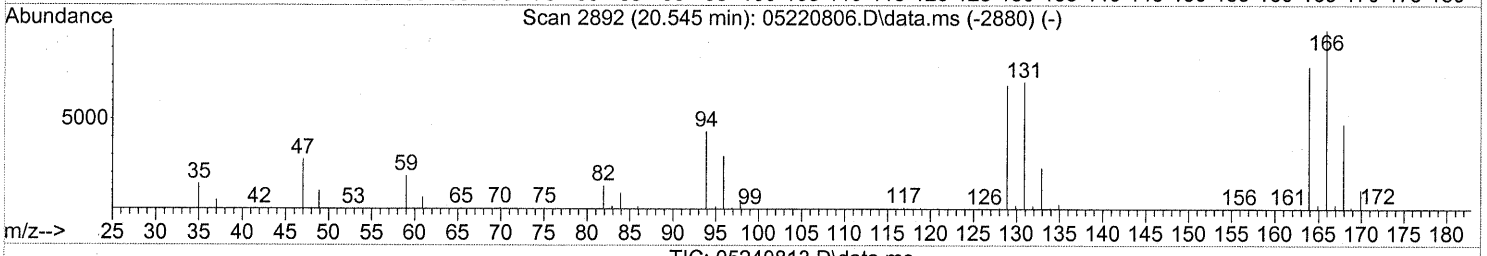
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240813.D\data.ms

(64) Tetrachloroethene (T)

20.545min (+0.000) 29.06ng

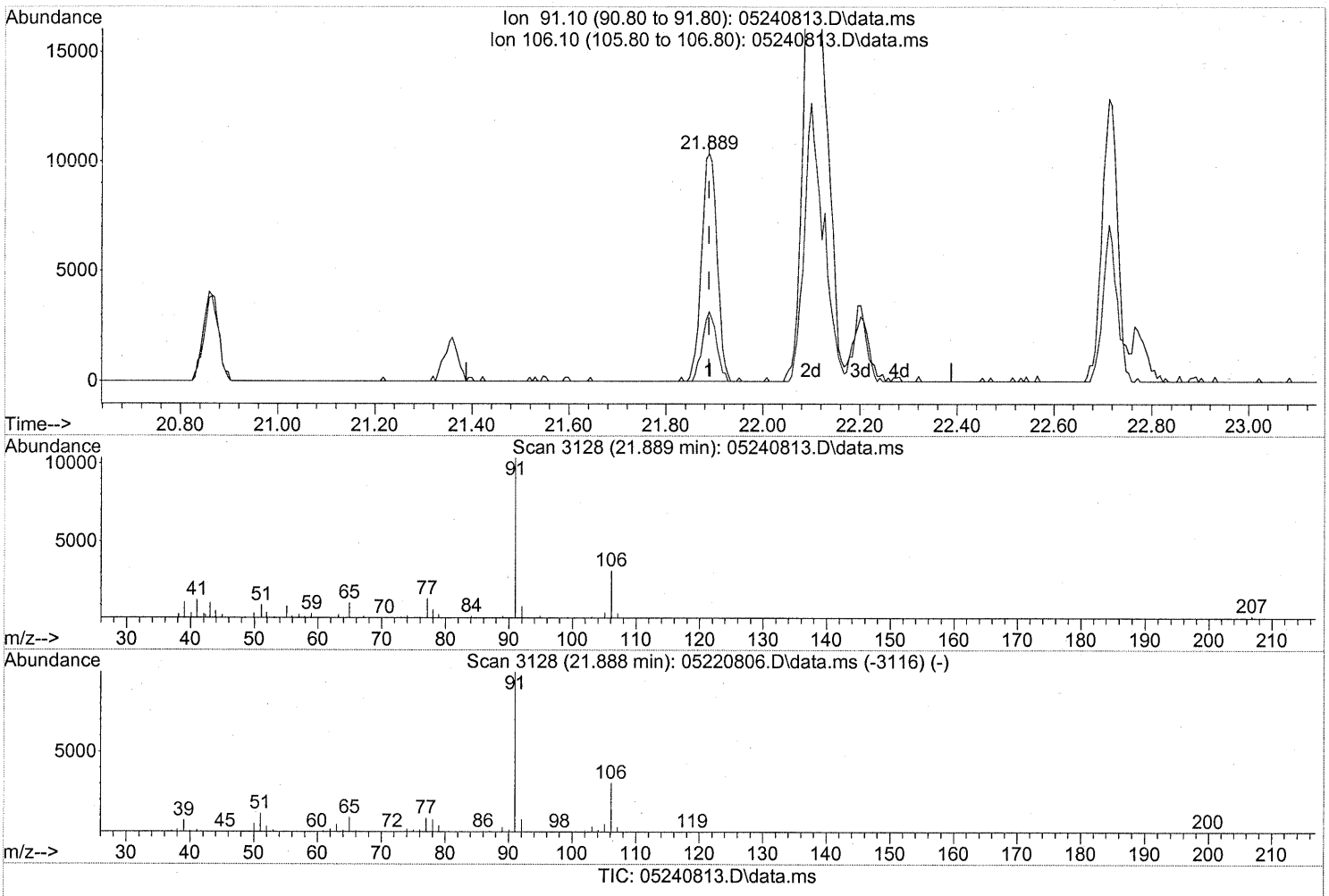
response 1099362

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(66) Ethylbenzene (T)

21.889min (+0.000) 0.16ng

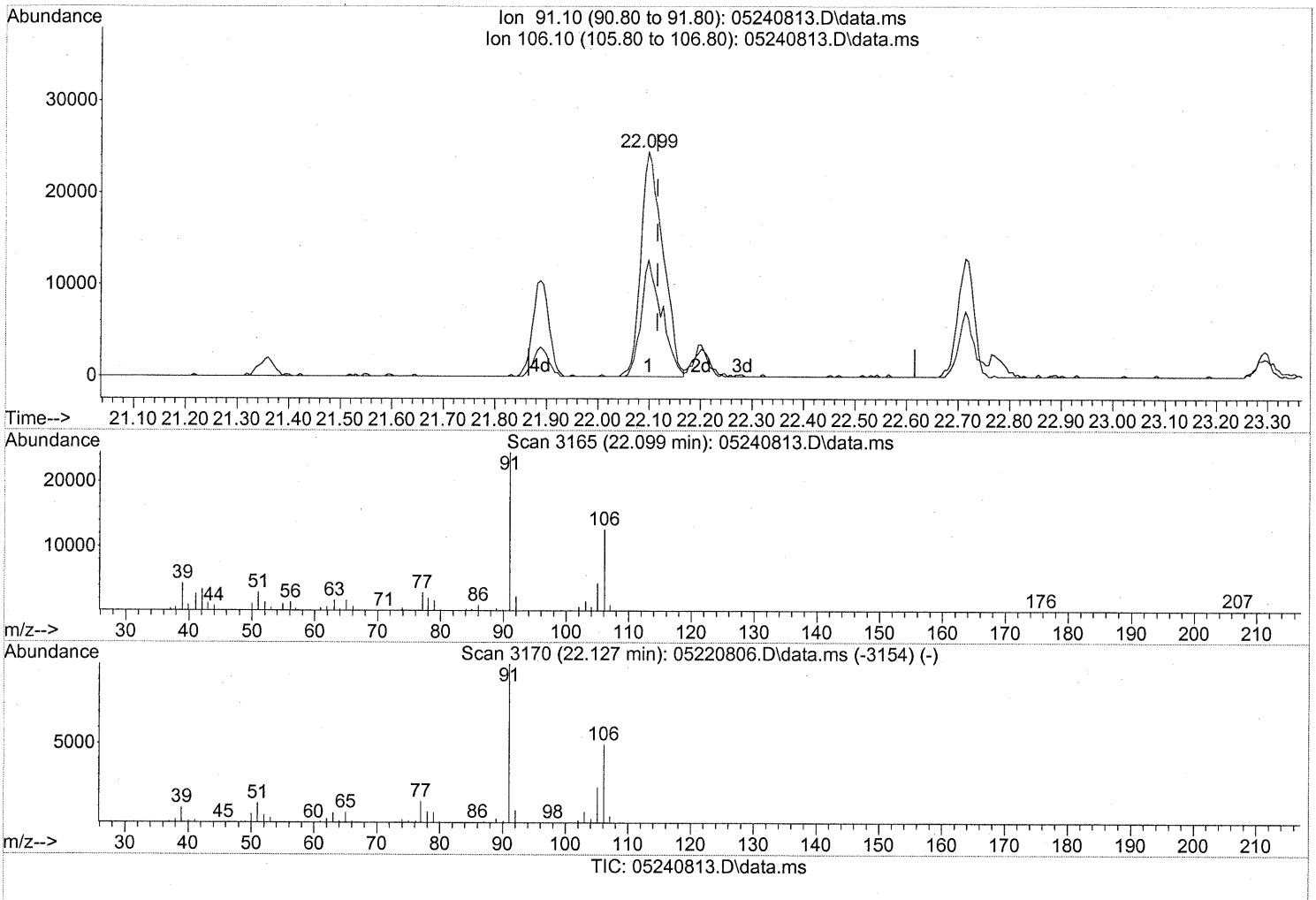
response 22966

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	28.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

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

22.099min (-0.017) 0.74ng

response 72657

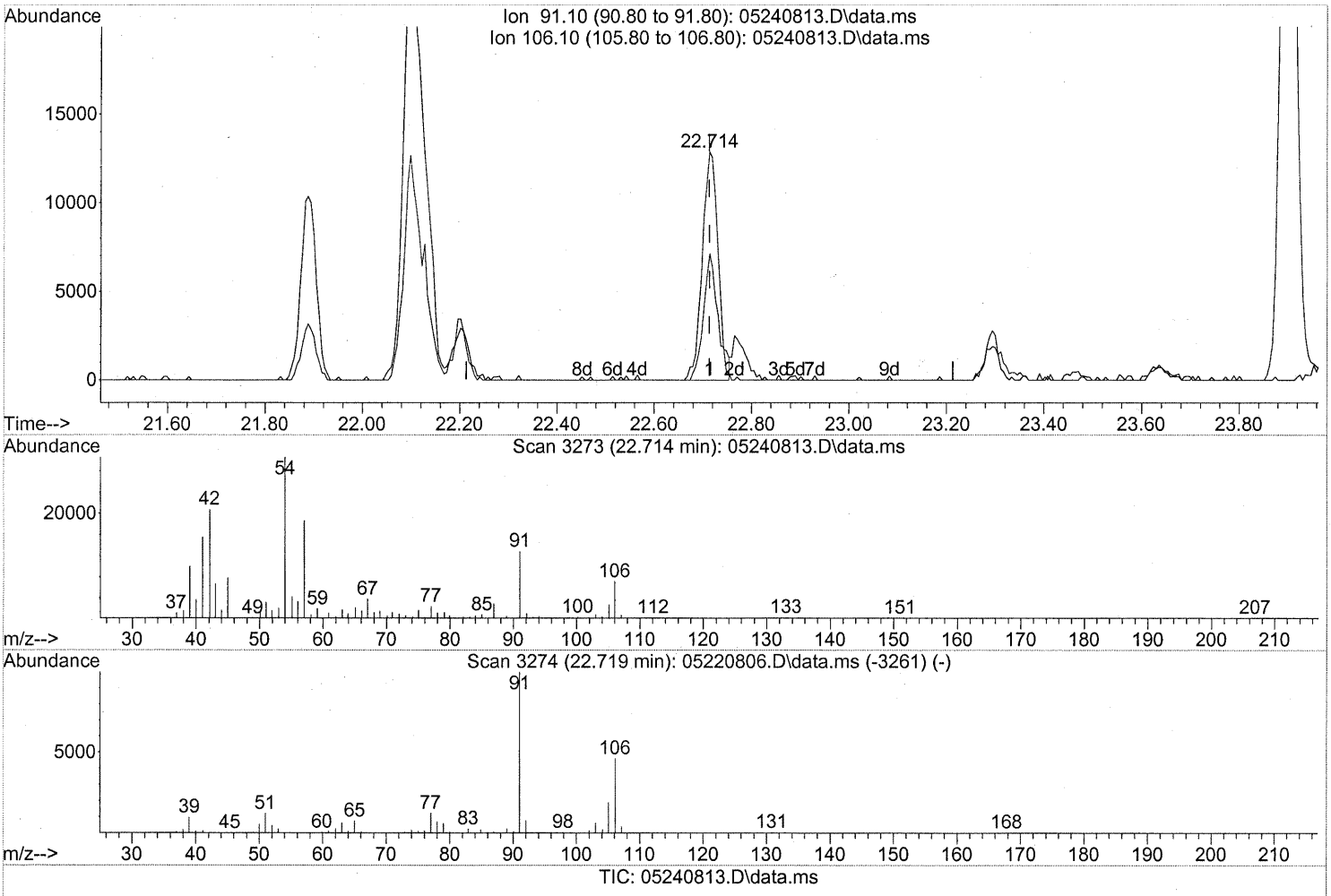
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	47.97
0.00	0.00	0.00
0.00	0.00	0.00

227

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(70) o-Xylene (T)

22.714min (+0.000) 0.27ng

response 28991

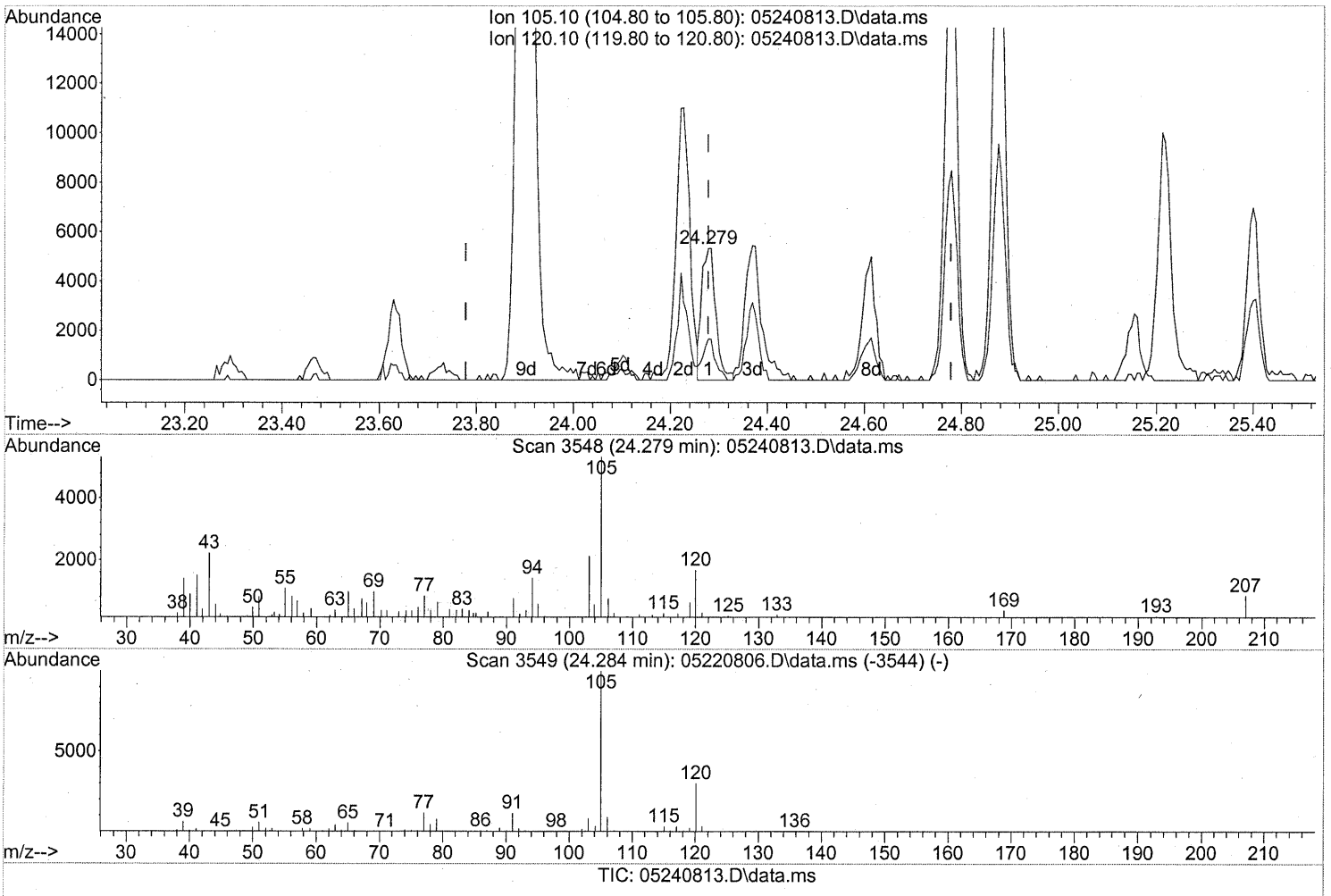
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	48.46
0.00	0.00	0.00
0.00	0.00	0.00

228

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (+0.000) 0.08ng

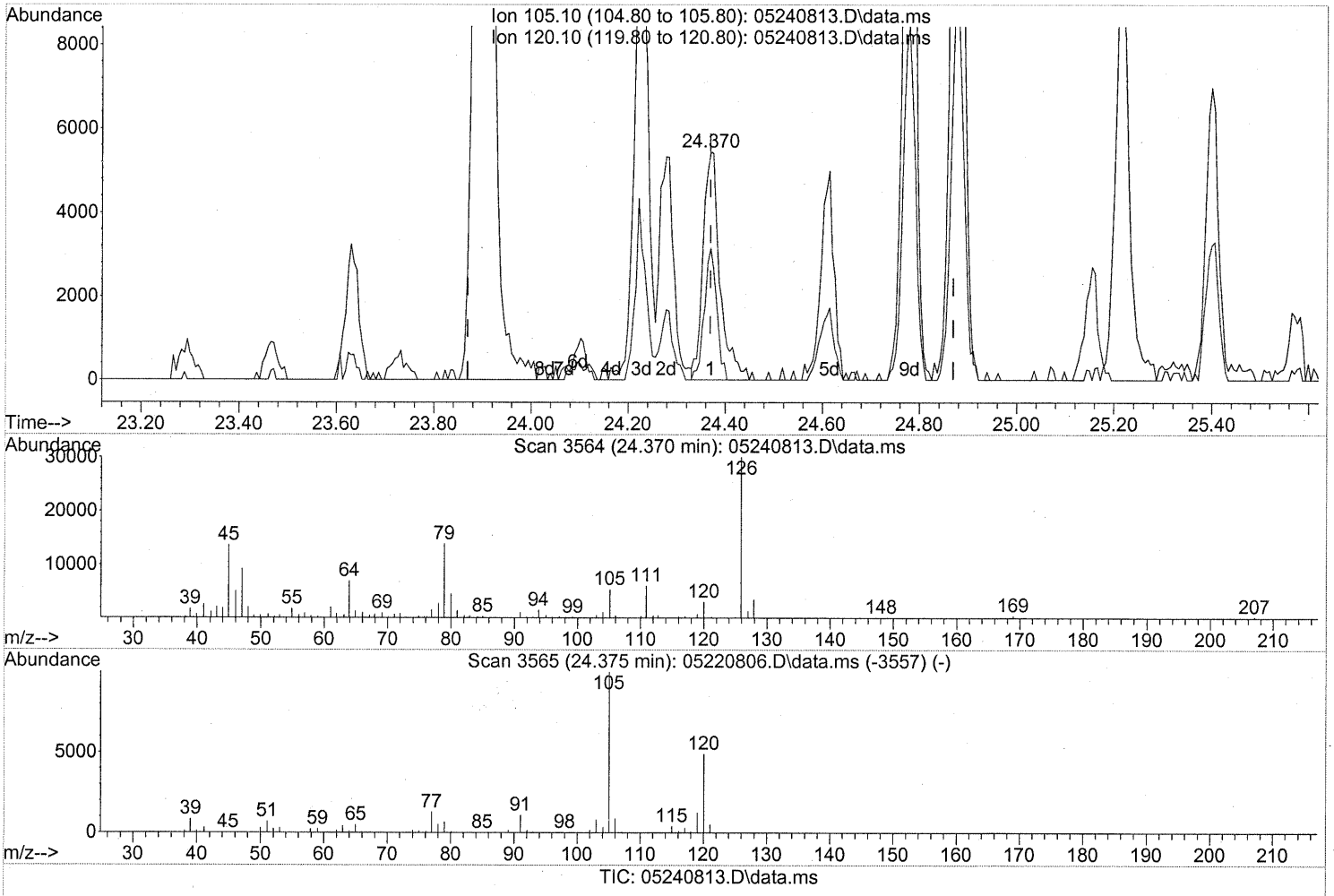
response 10668

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	27.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

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

24.370min (+0.000) 0.10ng

response 13169

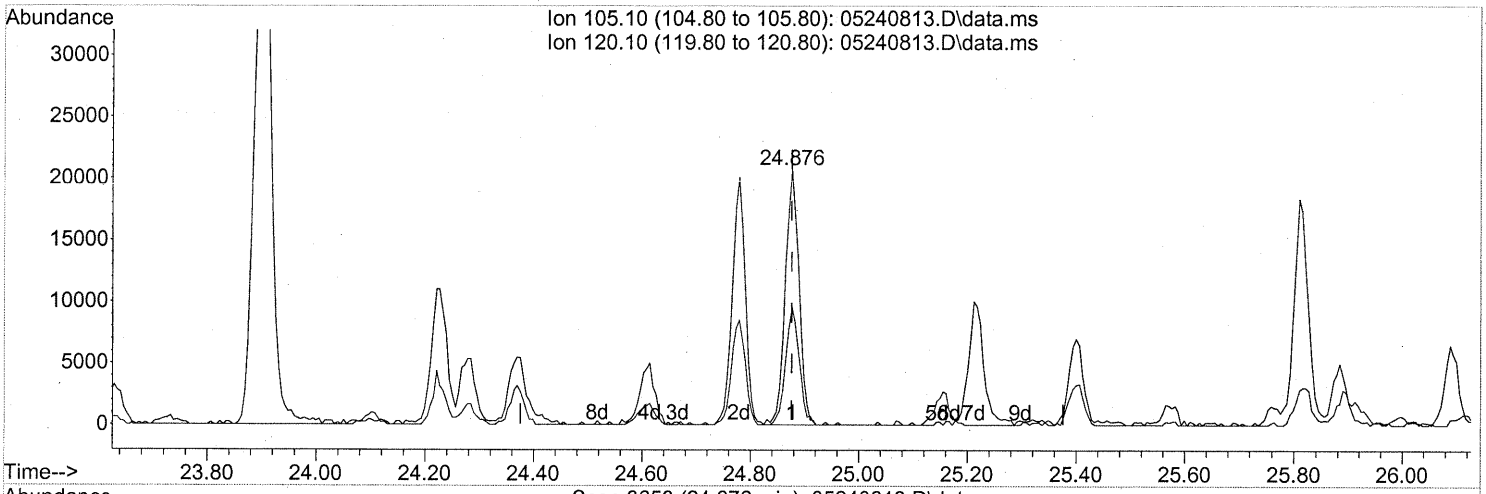
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	42.21
0.00	0.00	0.00
0.00	0.00	0.00

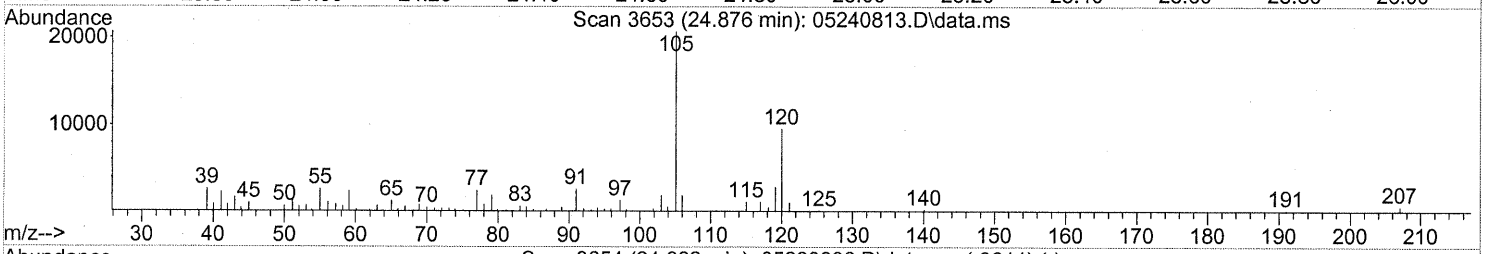
230

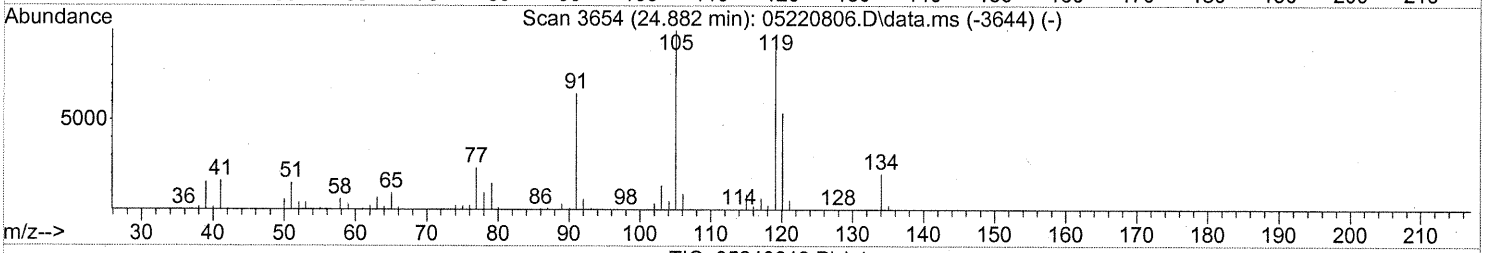
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240813.D\data.ms

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

24.876min (+0.000) 0.28ng

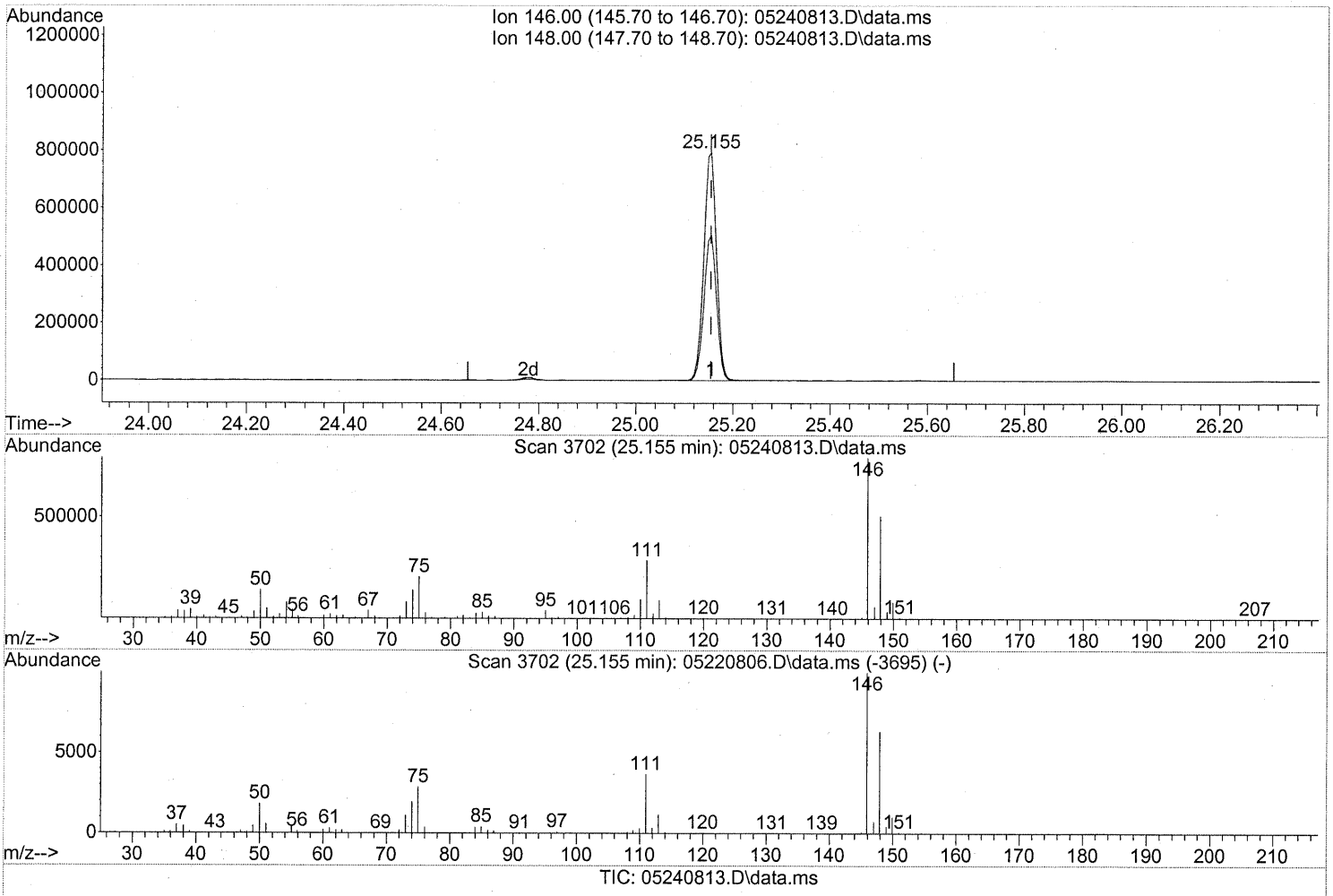
response 36550

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 18.40ng

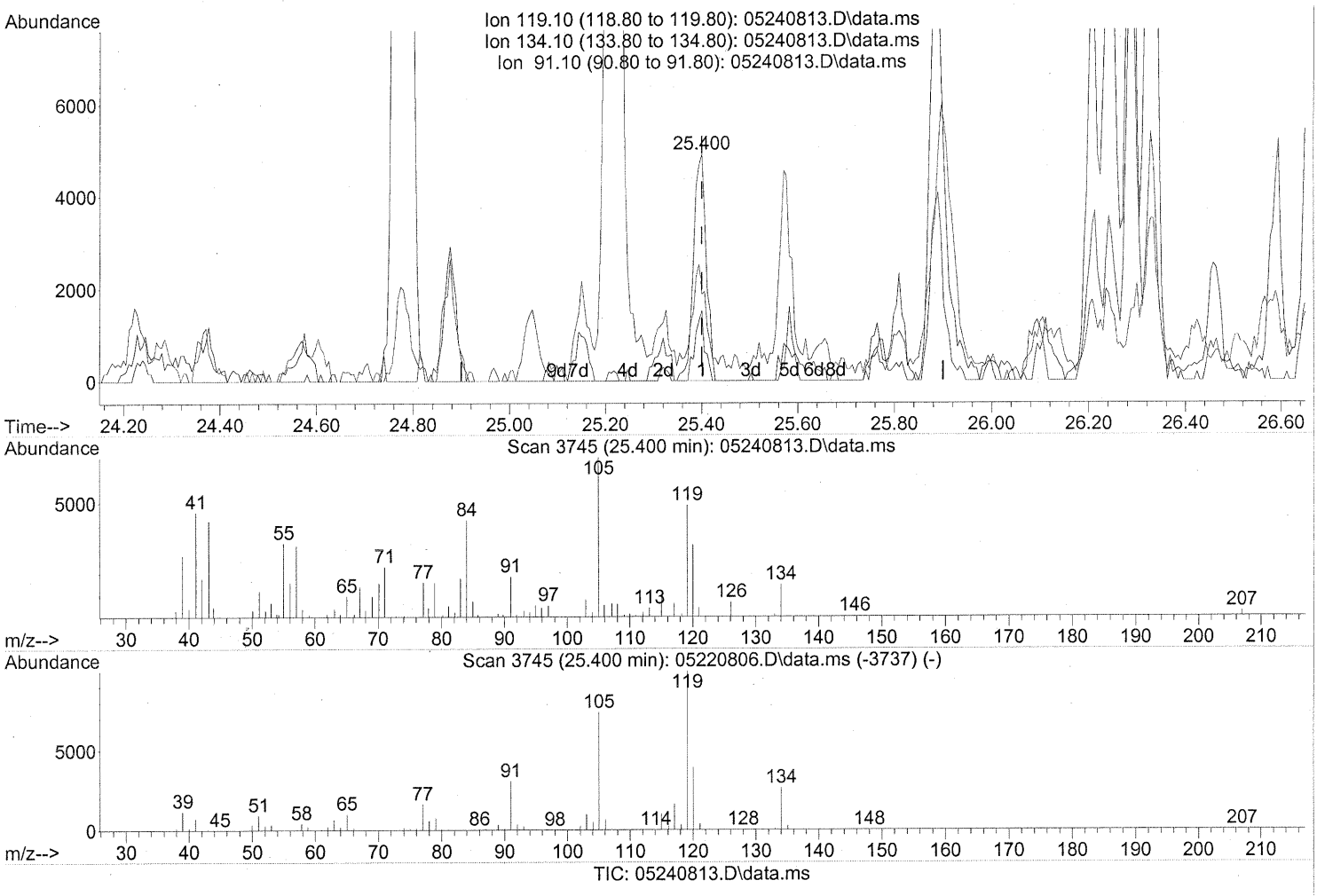
response 1435075

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 3:17 pm
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.07ng

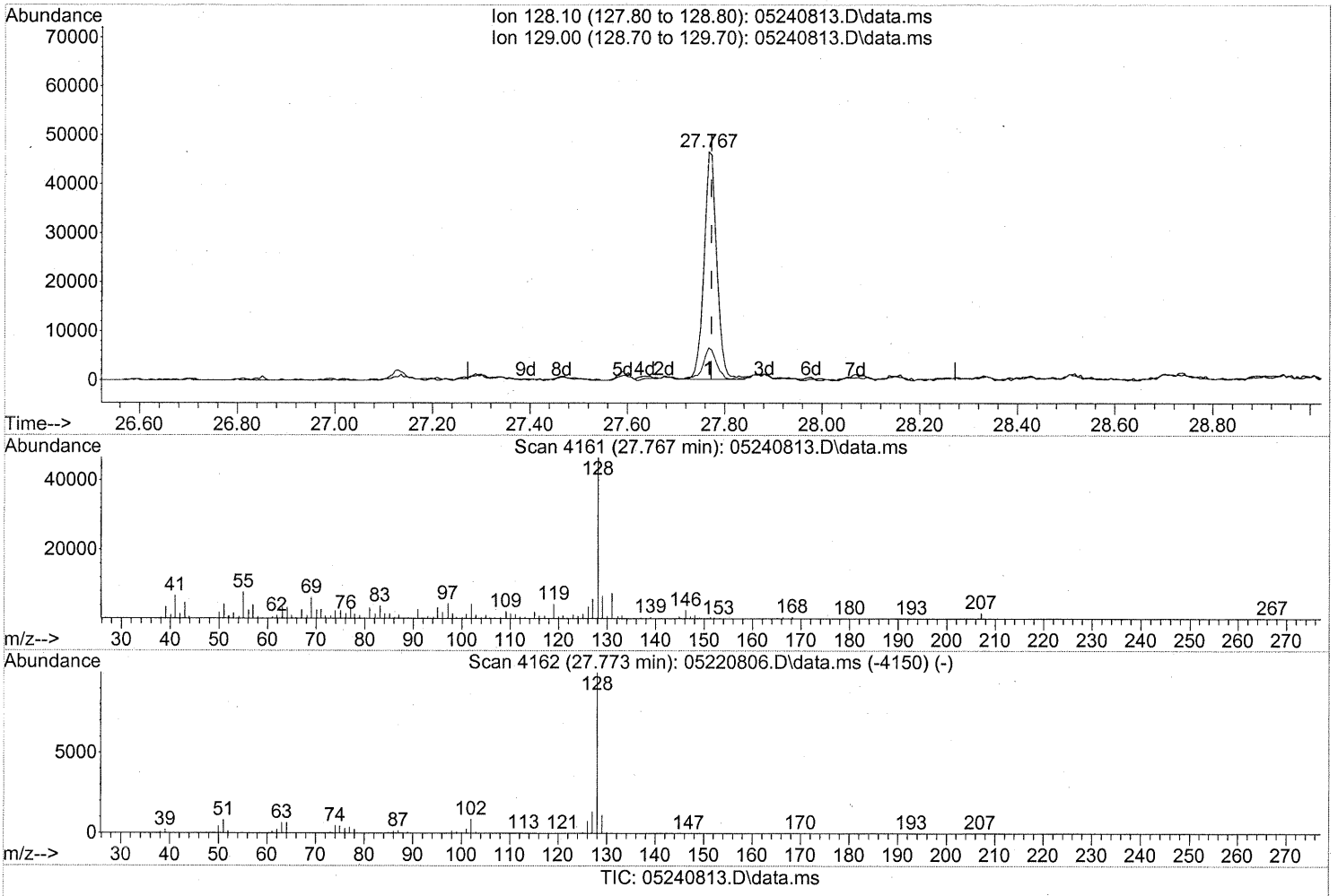
response 9034

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	23.89
91.10	27.10	56.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 20:21:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(95) Naphthalene (T)

27.767min (-0.006) 0.50ng

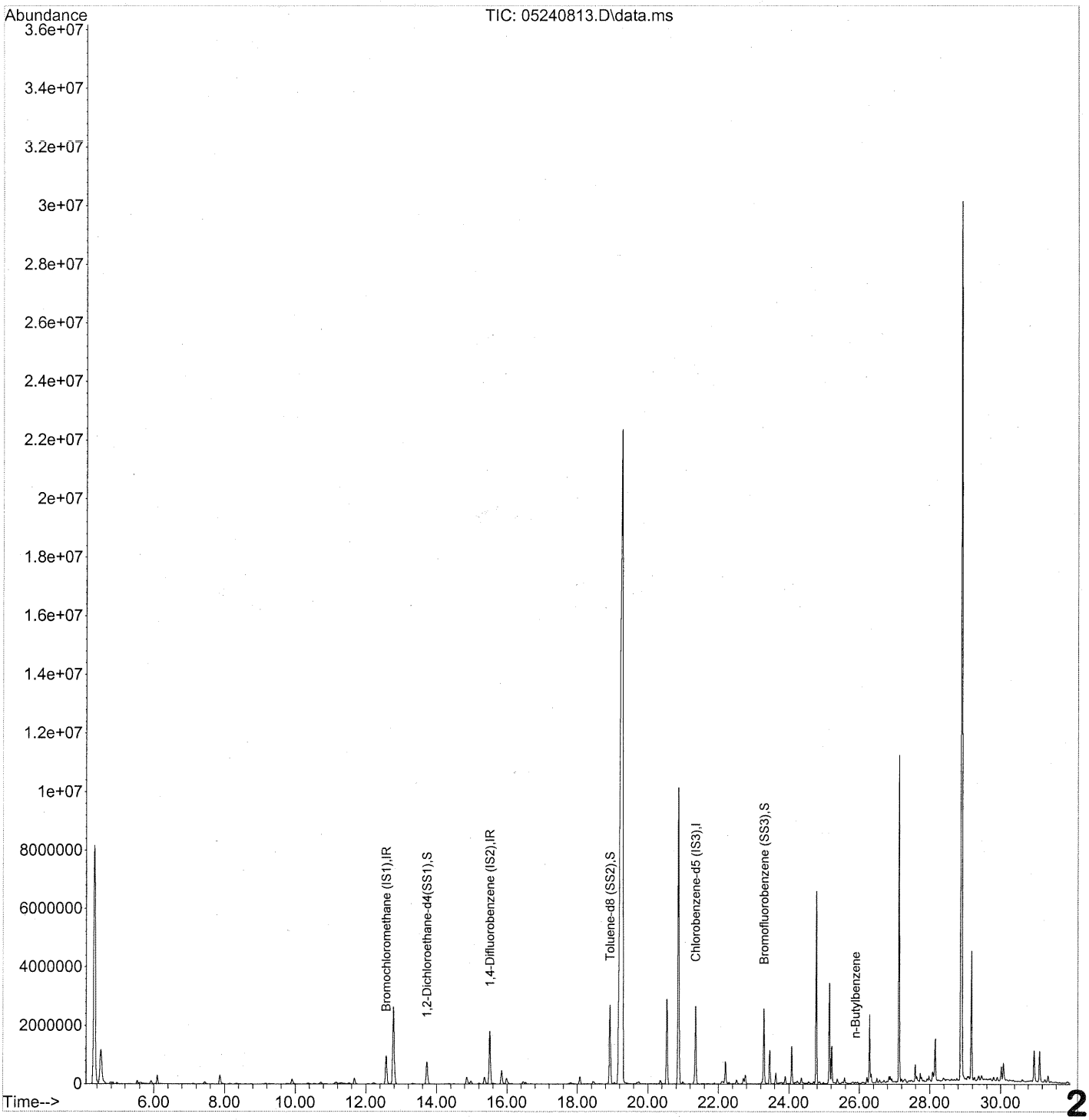
response 84617

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	15.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 25 20:36:45 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 25 20:36:45 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	502403	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2138148	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1047220	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	808737	23.232	ng	-0.02
Spiked Amount 25.000			Recovery =	92.92%		
5) Toluene-d8 (SS2)	18.93	98	2255487	23.982	ng	-0.01
Spiked Amount 25.000			Recovery =	95.92%		
6) Bromofluorobenzene (SS3)	23.29	174	956196	25.001	ng	0.00
Spiked Amount 25.000			Recovery =	100.00%		
Target Compounds						Qvalue
7) tert-Butylbenzene	25.32	119	1659	N.D.		
8) n-Butylbenzene	25.90	91	16192	0.119	ng #	60

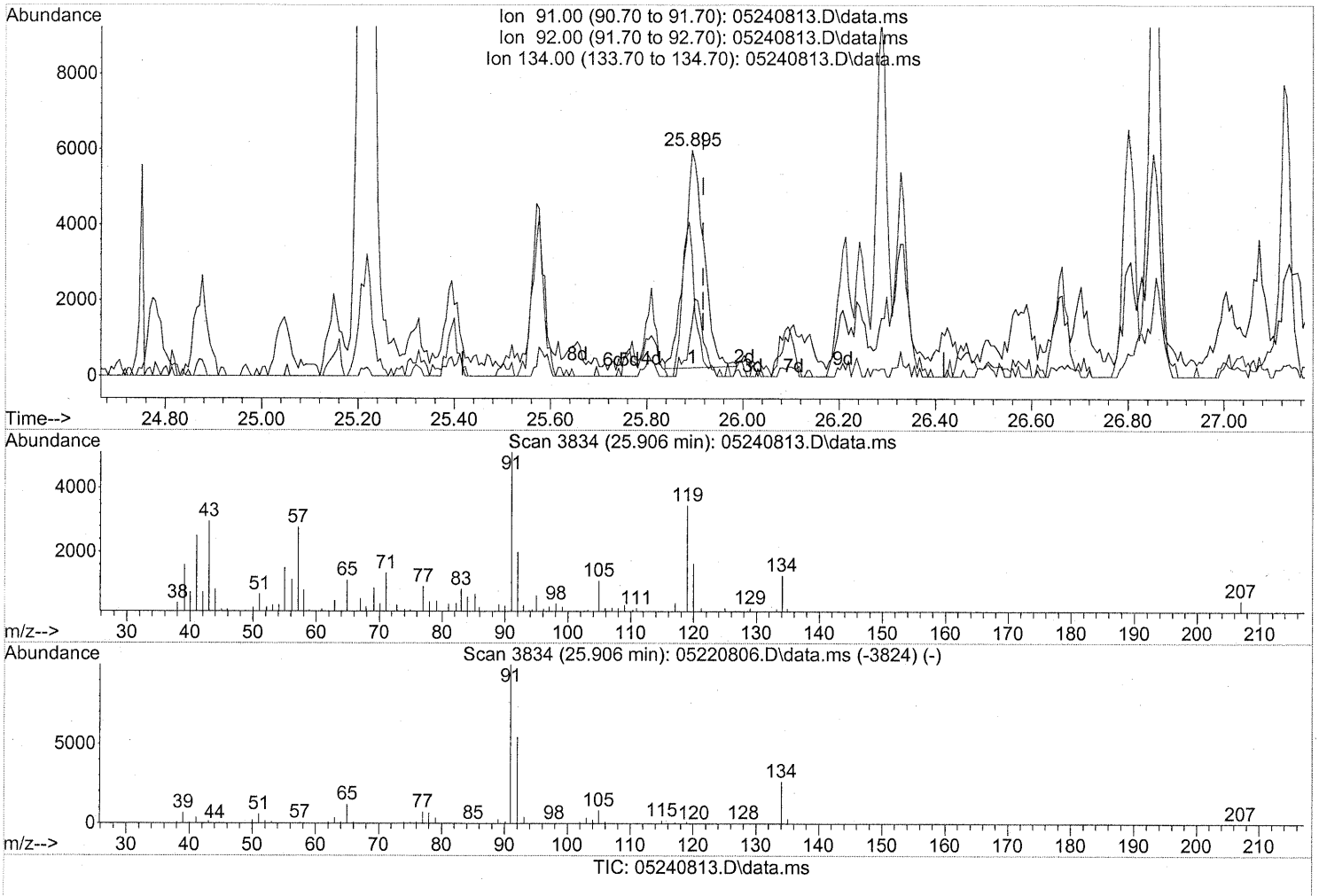
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JDH 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240813.D
Acq On : 24 May 2008 15:17
Operator : WA
Sample : P0801442-003 (500ml)
Misc : ENSR SG37B-20 (-3.1, 3.6)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 25 20:36:45 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240813.D\data.ms

(8) n-Butylbenzene

25.895min (-0.022) 0.12ng

response 16192

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	25.54#
134.00	28.80	48.66#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG36B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00910

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.050 Liter(s)
0.0050 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)**	**3.5**	16	1.6	**0.70**	3.2	0.32	**J**
74-87-3	Chloromethane	ND	3.1	1.6	ND	1.5	0.76	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	16	1.6	ND	2.2	0.22	
75-01-4	Vinyl Chloride	ND	3.1	1.6	ND	1.2	0.61	
74-83-9	Bromomethane	ND	3.1	1.6	ND	0.80	0.40	
75-00-3	Chloroethane	ND	3.1	1.6	ND	1.2	0.59	
64-17-5	**Ethanol**	**35**	160	1.6	**19**	83	0.83	**J**
67-64-1	**Acetone**	**31**	160	2.3	**13**	66	0.96	**J, B**
75-69-4	**Trichlorofluoromethane**	**2.0**	3.1	1.6	**0.36**	0.56	0.28	**J**
107-13-1	Acrylonitrile	ND	16	2.2	ND	7.2	1.0	
75-35-4	**1,1-Dichloroethene**	**5.3**	3.1	1.6	**1.3**	0.79	0.39	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	16	2.3	ND	5.1	0.76	
75-09-2	**Methylene Chloride**	**8.0**	16	1.6	**2.3**	4.5	0.45	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.1	1.6	ND	1.0	0.50	
76-13-1	Trichlorotrifluoroethane	ND	3.1	1.7	ND	0.41	0.23	
75-15-0	**Carbon Disulfide**	**6.4**	16	3.7	**2.0**	5.0	1.2	**J**
156-60-5	trans-1,2-Dichloroethene	ND	3.1	1.6	ND	0.79	0.39	
75-34-3	**1,1-Dichloroethane**	**2.0**	3.1	1.6	**0.50**	0.77	0.39	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	3.1	1.6	ND	0.87	0.43	
108-05-4	Vinyl Acetate	ND	160	5.0	ND	44	1.4	
78-93-3	**2-Butanone (MEK)**	**10**	16	1.6	**3.5**	5.3	0.53	**J**
156-59-2	cis-1,2-Dichloroethene	ND	3.1	1.6	ND	0.79	0.39	
108-20-3	Diisopropyl Ether	ND	16	1.8	ND	3.7	0.44	
67-66-3	**Chloroform**	**14,000**	3.1	1.8	**2,900**	0.64	0.38	

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: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG36B-20**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00910

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.050 Liter(s)
0.0050 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	16	1.6	ND	3.7	0.38	
107-06-2	1,2-Dichloroethane	ND	3.1	1.6	ND	0.77	0.39	
71-55-6	**1,1,1-Trichloroethane**	**2.5**	3.1	1.6	**0.46**	0.57	0.29	**J**
71-43-2	**Benzene**	**3.2**	3.1	1.6	**1.0**	0.98	0.49	
56-23-5	**Carbon Tetrachloride**	**10**	3.1	1.6	**1.6**	0.50	0.25	
994-05-8	tert-Amyl Methyl Ether	ND	16	1.6	ND	3.7	0.37	
78-87-5	**1,2-Dichloropropane**	**2.1**	3.1	1.6	**0.45**	0.68	0.34	**J**
75-27-4	**Bromodichloromethane**	**25**	3.1	1.6	**3.7**	0.47	0.23	
79-01-6	**Trichloroethene**	**71**	3.1	1.6	**13**	0.58	0.29	
123-91-1	1,4-Dioxane	ND	16	1.9	ND	4.3	0.53	
80-62-6	Methyl Methacrylate	ND	16	2.3	ND	3.8	0.57	
142-82-5	n-Heptane	ND	16	2.0	ND	3.8	0.49	
10061-01-5	cis-1,3-Dichloropropene	ND	16	1.6	ND	3.4	0.36	
108-10-1	4-Methyl-2-pentanone	ND	16	1.7	ND	3.8	0.43	
10061-02-6	trans-1,3-Dichloropropene	ND	16	2.0	ND	3.4	0.43	
79-00-5	1,1,2-Trichloroethane	ND	3.1	1.6	ND	0.57	0.29	
108-88-3	**Toluene**	**3.7**	16	1.6	**0.99**	4.1	0.41	**J**
591-78-6	2-Hexanone	ND	16	2.4	ND	3.8	0.58	
124-48-1	**Dibromochloromethane**	**3.1**	3.1	2.1	**0.36**	0.37	0.25	**J**
106-93-4	1,2-Dibromoethane	ND	3.1	1.7	ND	0.41	0.22	
111-65-9	n-Octane	ND	16	1.6	ND	3.3	0.33	
127-18-4	**Tetrachloroethene**	**630**	3.1	1.6	**93**	0.46	0.23	
108-90-7	Chlorobenzene	ND	3.1	1.6	ND	0.68	0.35	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG36B-20** CAS Sample ID: P0801442-004
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.050 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.0050 Liter(s)
Test Notes:
Container ID: SC00910

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

Canister Dilution Factor: 1.56

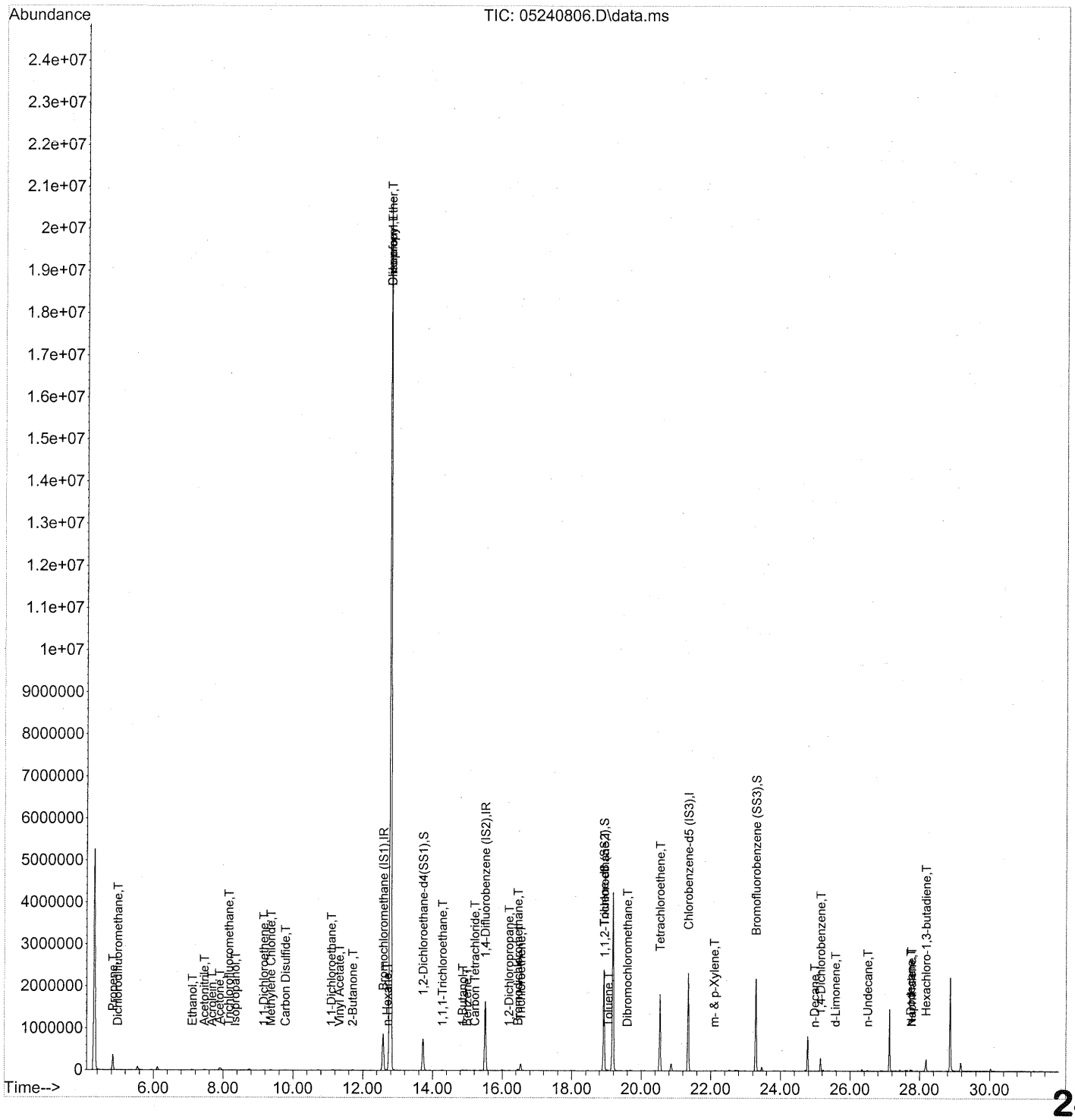
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	16	1.9	ND	3.6	0.45	
179601-23-1	m,p-Xylenes	ND	16	4.1	ND	3.6	0.93	
75-25-2	Bromoform	ND	16	2.4	ND	1.5	0.23	
100-42-5	Styrene	ND	16	2.4	ND	3.7	0.56	
95-47-6	o-Xylene	ND	16	2.0	ND	3.6	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	2.0	ND	0.45	0.29	
98-82-8	Cumene	ND	16	1.7	ND	3.2	0.36	
103-65-1	n-Propylbenzene	ND	16	1.6	ND	3.2	0.33	
622-96-8	4-Ethyltoluene	ND	16	1.8	ND	3.2	0.36	
108-67-8	1,3,5-Trimethylbenzene	ND	16	1.9	ND	3.2	0.38	
98-83-9	alpha-Methylstyrene	ND	16	2.3	ND	3.2	0.47	
95-63-6	1,2,4-Trimethylbenzene	ND	16	2.2	ND	3.2	0.44	
100-44-7	Benzyl Chloride	ND	3.1	2.7	ND	0.60	0.52	
541-73-1	1,3-Dichlorobenzene	ND	3.1	1.9	ND	0.52	0.32	
106-46-7	**1,4-Dichlorobenzene**	**65**	3.1	1.7	**11**	0.52	0.29	
135-98-8	sec-Butylbenzene	ND	16	1.8	ND	2.8	0.33	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	16	2.0	ND	2.8	0.37	
95-50-1	1,2-Dichlorobenzene	ND	3.1	2.1	ND	0.52	0.34	
96-12-8	1,2-Dibromo-3-chloropropane	ND	16	2.4	ND	1.6	0.25	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	2.4	ND	0.42	0.32	
91-20-3	**Naphthalene**	**3.8**	6.2	2.3	**0.72**	1.2	0.44	**J**
87-68-3	**Hexachlorobutadiene**	**56**	3.1	2.8	**5.3**	0.29	0.26	
98-06-6	tert-Butylbenzene	ND	6.2	1.6	ND	1.1	0.28	
104-51-8	n-Butylbenzene	ND	6.2	1.6	ND	1.1	0.28	

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: Rc Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	441193	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1908057	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	909547	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	761181	24.900	ng		0.00
Spiked Amount 25.000			Recovery =	99.60%			
57) Toluene-d8 (SS2)	18.93	98	1997717	24.456	ng		0.00
Spiked Amount 25.000			Recovery =	97.84%			
73) Bromofluorobenzene (SS3)	23.29	174	817701	24.616	ng		0.00
Spiked Amount 25.000			Recovery =	98.48%			
Target Compounds							Qvalue
2) Propene	4.84	42	40233	1.155	ng	#	1
3) Dichlorodifluoromethane	4.98	85	7129	0.111	ng		96
4) Chloromethane	5.33	50	460	N.D.			
5) Freon 114	5.54	135	52	N.D.			
6) Vinyl Chloride	5.77	62	216	N.D.			
7) 1,3-Butadiene	5.94	54	149	N.D.			
8) Bromomethane	6.51	94	184	N.D.			
9) Chloroethane	6.84	64	528	N.D.			
10) Ethanol	7.11	45	26179m	1.129	ng		
11) Acetonitrile	7.46	41	20366	0.304	ng		99
12) Acrolein	7.68	56	2263	0.137	ng		99
13) Acetone	7.89	58	23704	0.998	ng	#	37
14) Trichlorofluoromethane	8.16	101	3504	0.064	ng		96
15) Isopropanol	8.34	45	5575	0.074	ng		79
16) Acrylonitrile	8.66	53	110	N.D.			
17) 1,1-Dichloroethene	9.16	96	4109	0.170	ng	#	68
18) tert-Butanol	9.29	59	2635	N.D.			
19) Methylene Chloride	9.36	84	6818	0.257	ng	#	81
20) Allyl Chloride	9.46	41	514	N.D.			
21) Trichlorotrifluoroethane	9.81	151	240	N.D.			
22) Carbon Disulfide	9.78	76	20570	0.204	ng		99
23) trans-1,2-Dichloroethene	10.80	61	453	N.D.			
24) 1,1-Dichloroethane	11.10	63	2987	0.065	ng		87
25) Methyl tert-Butyl Ether	11.21	73	53	N.D.			
26) Vinyl Acetate	11.33	86	434	~~0.099~~ ng	< MDL		71
27) 2-Butanone	11.71	72	5646	0.326	ng	#	84
28) cis-1,2-Dichloroethene	12.36	61	1261	N.D.			
29) Diisopropyl Ether	12.79	87	2614788	~~123.103~~ ng	NR	#	1
30) Ethyl Acetate	12.71	61	58	N.D.			
31) n-Hexane	12.70	57	5512	0.117	ng	#	71

5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	12.79	83	21562946	~~535.973 ng~~ sat dil	93
34) Tetrahydrofuran	13.39	72	93	N.D.	
35) Ethyl tert-Butyl Ether	13.51	87	62	N.D.	
36) 1,2-Dichloroethane	13.90	62	922	N.D.	
38) 1,1,1-Trichloroethane	14.28	97	3481	0.080 ng	97
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.87	56	13661	0.521 ng	99
41) Benzene	14.99	78	10250	0.103 ng	94
42) Carbon Tetrachloride	15.21	117	12450	0.324 ng	99
43) Cyclohexane	15.39	84	1072	N.D.	
44) tert-Amyl Methyl Ether	15.88	73	75	N.D.	
45) 1,2-Dichloropropane	16.20	63	1801	0.067 ng	90
46) Bromodichloromethane	16.46	83	26628	0.788 ng	99
47) Trichloroethene	16.54	130	69801	2.278 ng	95
48) 1,4-Dioxane	0.00	88	0	N.D.	
49) Isooctane	16.62	57	2255	N.D.	
50) Methyl Methacrylate	0.00	100	0	N.D.	
51) n-Heptane	16.99	71	356	N.D.	
52) cis-1,3-Dichloropropene	17.76	75	116	N.D.	
53) 4-Methyl-2-pentanone	17.79	58	313	N.D.	
54) trans-1,3-Dichloropropene	18.44	75	193	N.D.	
55) 1,1,2-Trichloroethane	18.94	97	173012	~~7.008 ng~~ UR#	7
58) Toluene	19.06	91	13180	0.119 ng	98
59) 2-Hexanone	19.40	43	3140	N.D.	
60) Dibromochloromethane	19.60	129	2952	0.098 ng	95
61) 1,2-Dibromoethane	19.94	107	426	N.D.	
62) Butyl Acetate	20.22	43	900	N.D.	
63) n-Octane	20.35	57	540	N.D.	
64) Tetrachloroethene	20.54	166	662357	20.159 ng	98
65) Chlorobenzene	21.41	112	2292	N.D.	
66) Ethylbenzene	21.90	91	3479	N.D.	
67) m- & p-Xylene	22.10	91	8062	~~0.095 ng~~ #	55
68) Bromoform	22.21	173	925	N.D.	
69) Styrene	22.58	104	1378	N.D.	
70) o-Xylene	22.72	91	2901	N.D.	
71) n-Nonane	22.98	43	2762	N.D.	
72) 1,1,2,2-Tetrachloroethane	22.70	83	1114	N.D.	
74) Cumene	23.45	105	1327	N.D.	
75) alpha-Pinene	23.95	93	752	N.D.	
76) n-Propylbenzene	24.11	91	2193	N.D.	
77) 3-Ethyltoluene	24.23	105	3179	N.D.	
78) 4-Ethyltoluene	24.28	105	2500	N.D.	
79) 1,3,5-Trimethylbenzene	24.38	105	1729	N.D.	

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DM 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

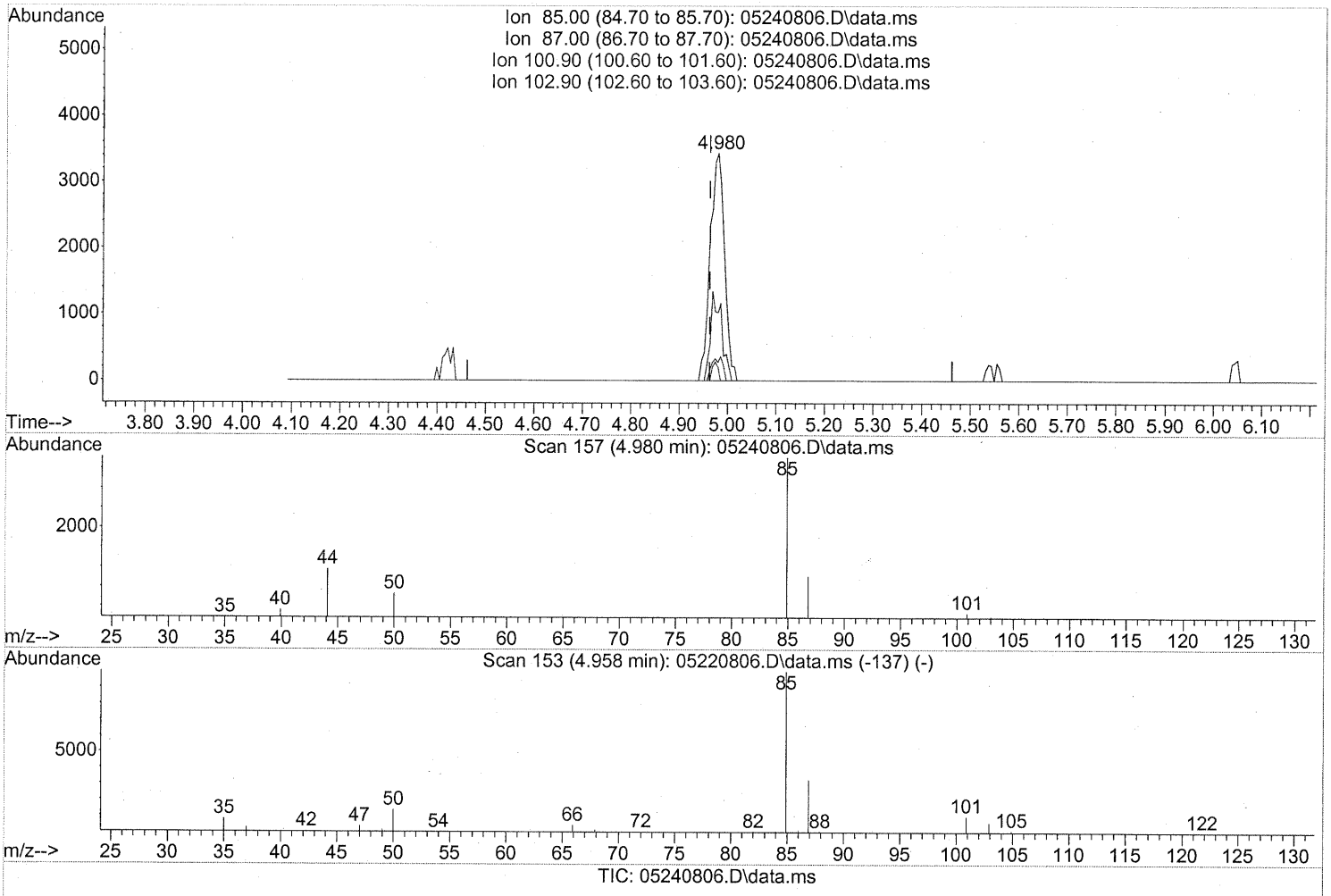
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	776	N.D. ✓	
81) 2-Ethyltoluene	24.61	105	2237	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	4122	N.D. ✓	
83) n-Decane	24.98	57	3086	0.050 ng	83
84) Benzyl Chloride	25.05	91	1024	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	1459	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	140353	2.072 ng	97
87) sec-Butylbenzene	25.22	105	1247	N.D. ✓	
88) p-Isopropyltoluene	25.40	119	1977	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.40	105	2302	N.D.	
90) 1,2-Dichlorobenzene	25.56	146	1815	N.D. ✓	
91) d-Limonene	25.58	68	3321	0.075 ng	100
92) 1,2-Dibromo-3-Chloropr...	26.10	157	54	N.D. ✓	
93) n-Undecane	26.50	57	7890	0.123 ng	88
94) 1,2,4-Trichlorobenzene	27.63	180	1962	N.D. ✓	
95) Naphthalene	27.77	128	17794	0.121 ng	99
96) n-Dodecane	27.74	57	10414	0.163 ng	81
97) Hexachloro-1,3-butadiene	28.19	225	58335	1.806 ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.11ng

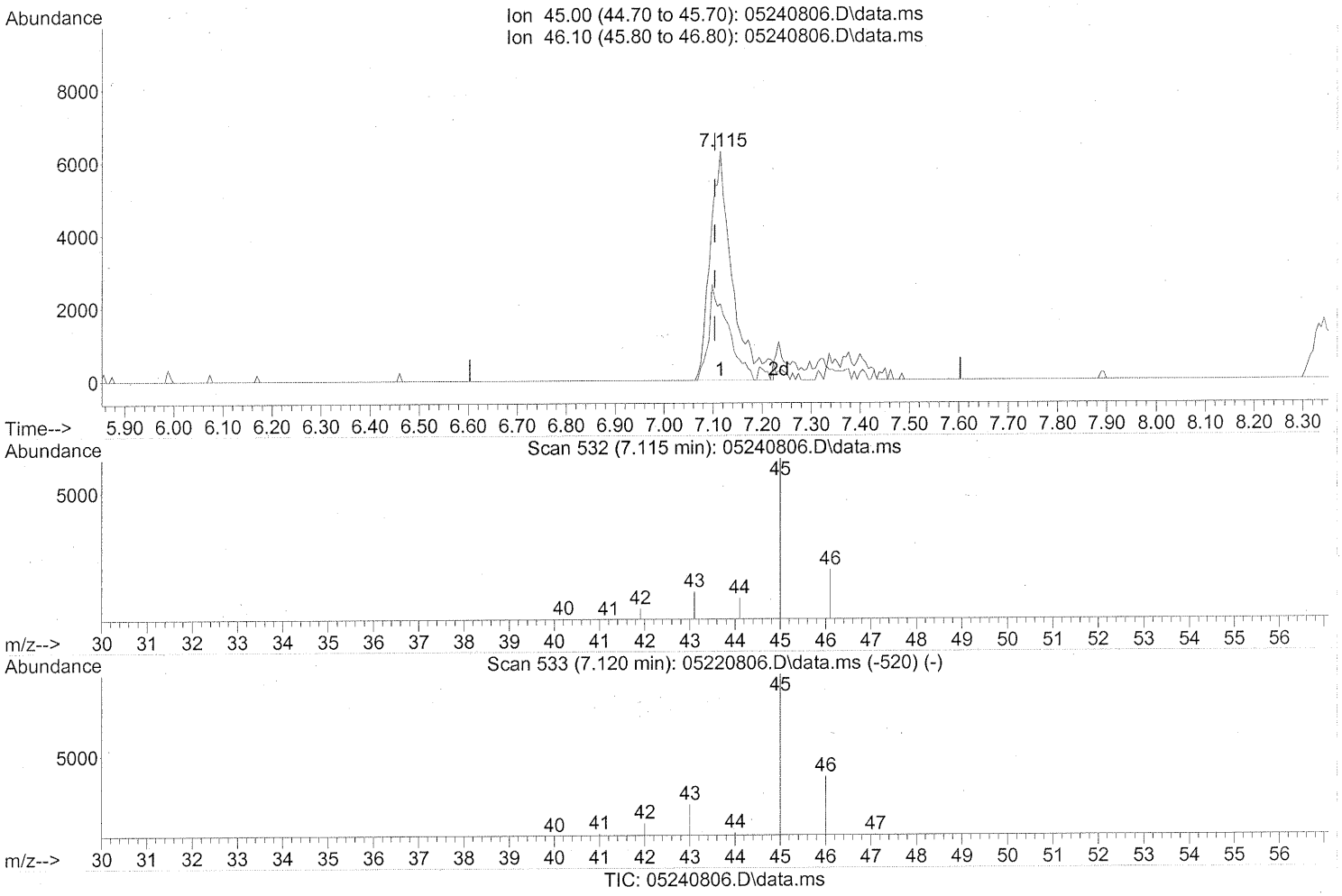
response 7129

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	30.38
100.90	9.30	7.87
102.90	6.00	3.28

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801422-004 (50ml) 5/26/08
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:01 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 0.86ng

response 19870

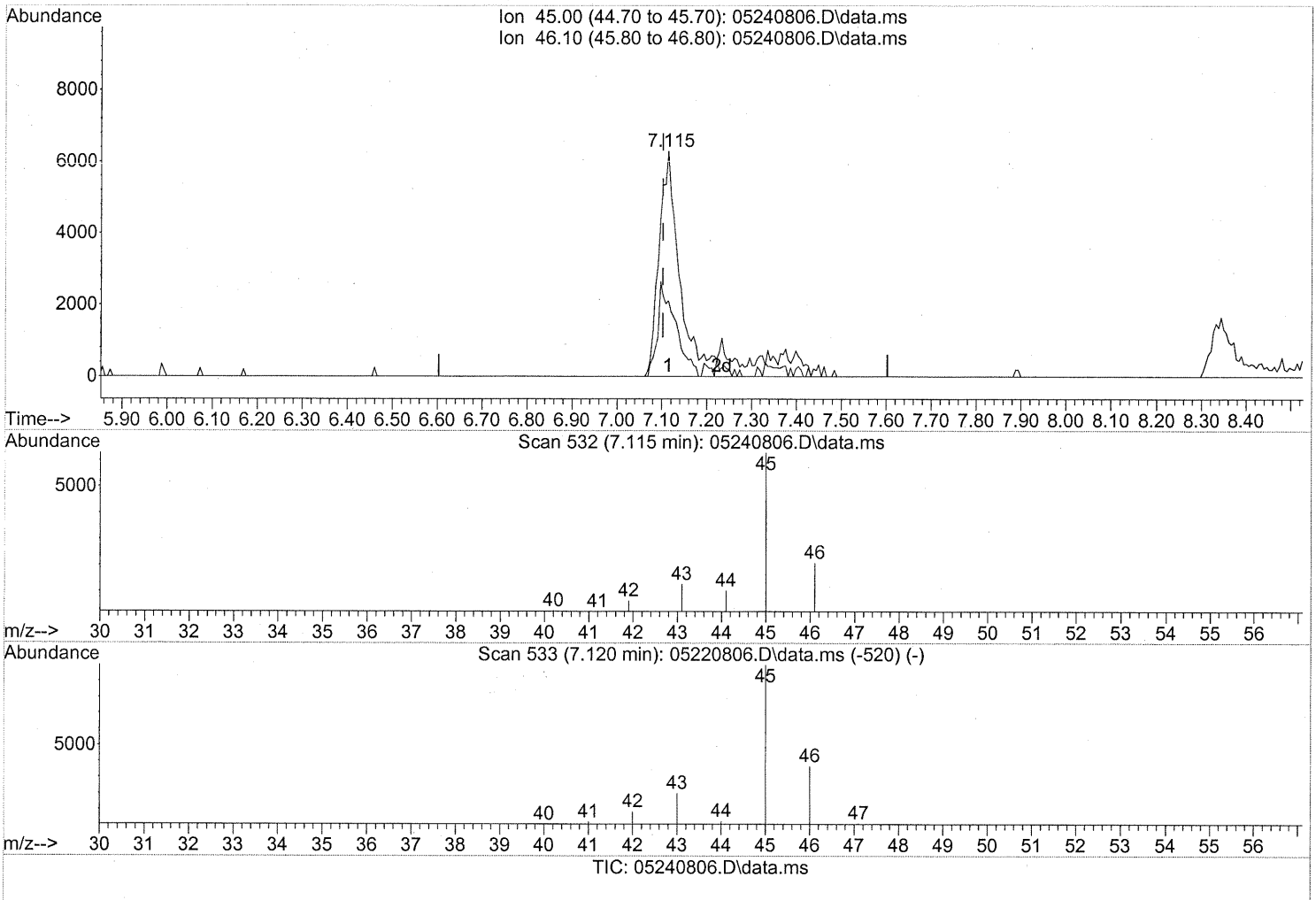
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.51
0.00	0.00	0.00
0.00	0.00	0.00

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.115min (+0.011) 1.13ng m

response 26179

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	27.71
0.00	0.00	0.00
0.00	0.00	0.00

incl tailing
KM 5/29/08

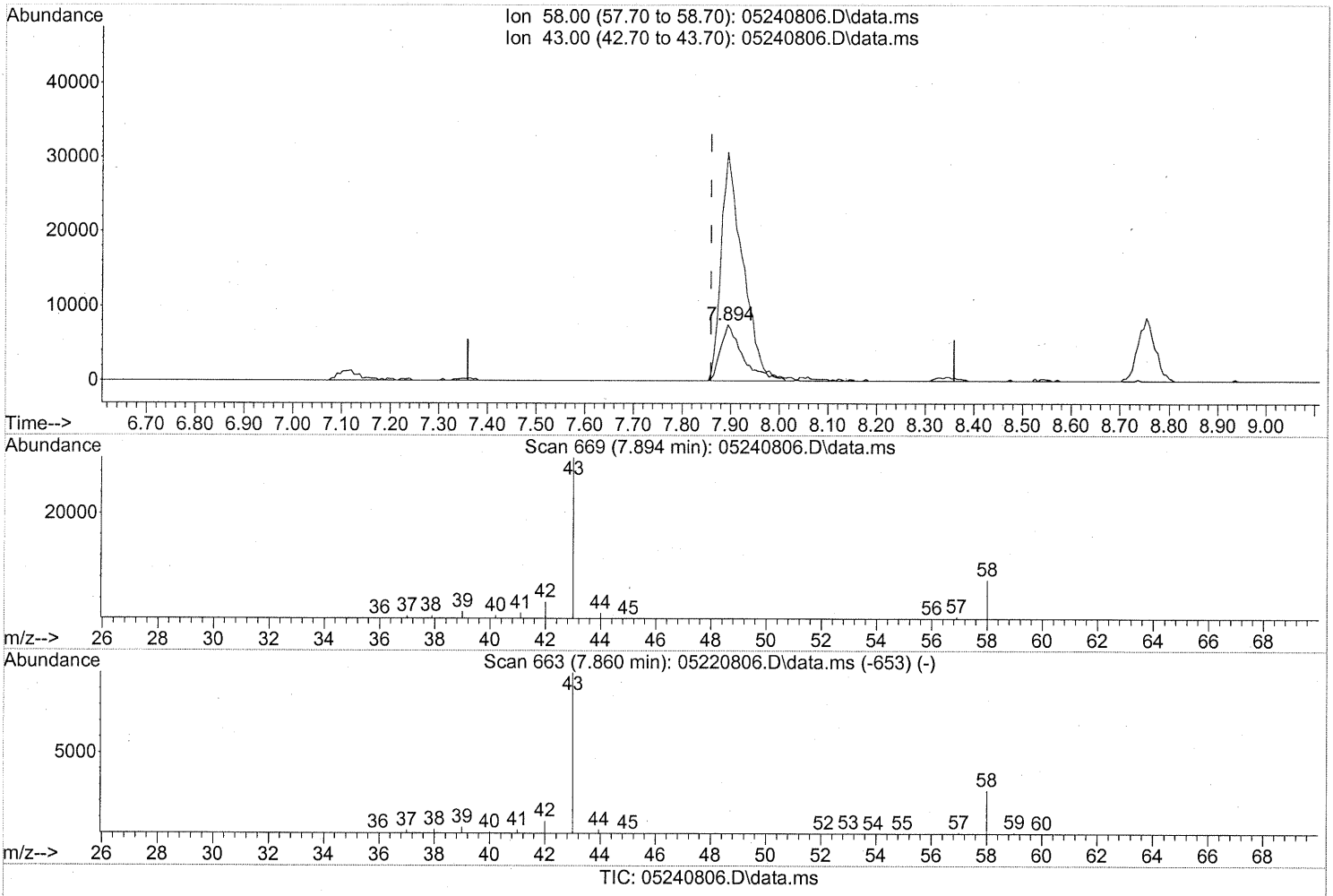
KM 5/29/08

247

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 1.00ng

response 23704

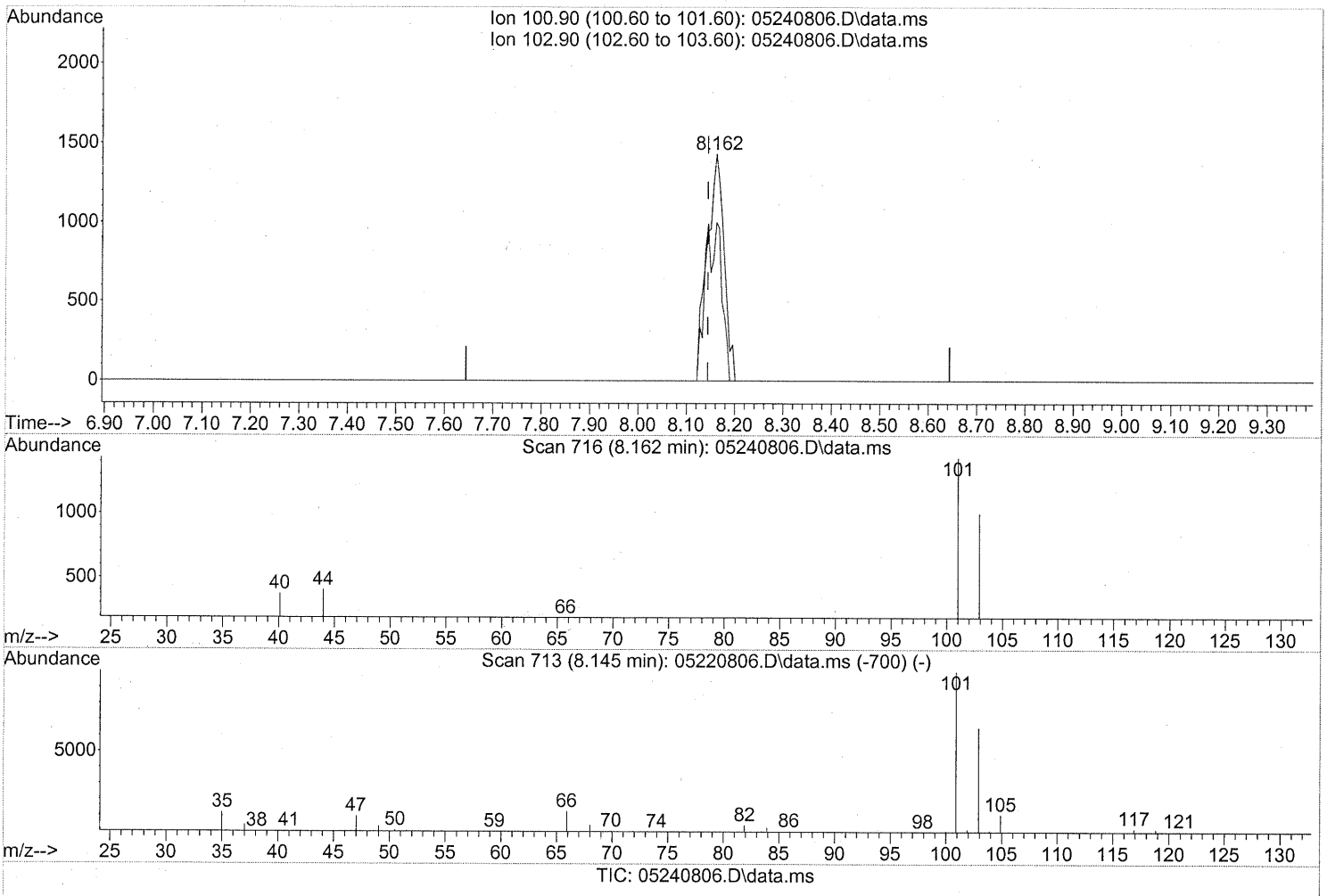
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	401.39#
0.00	0.00	0.00
0.00	0.00	0.00

248

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.162min (+0.017) 0.06ng

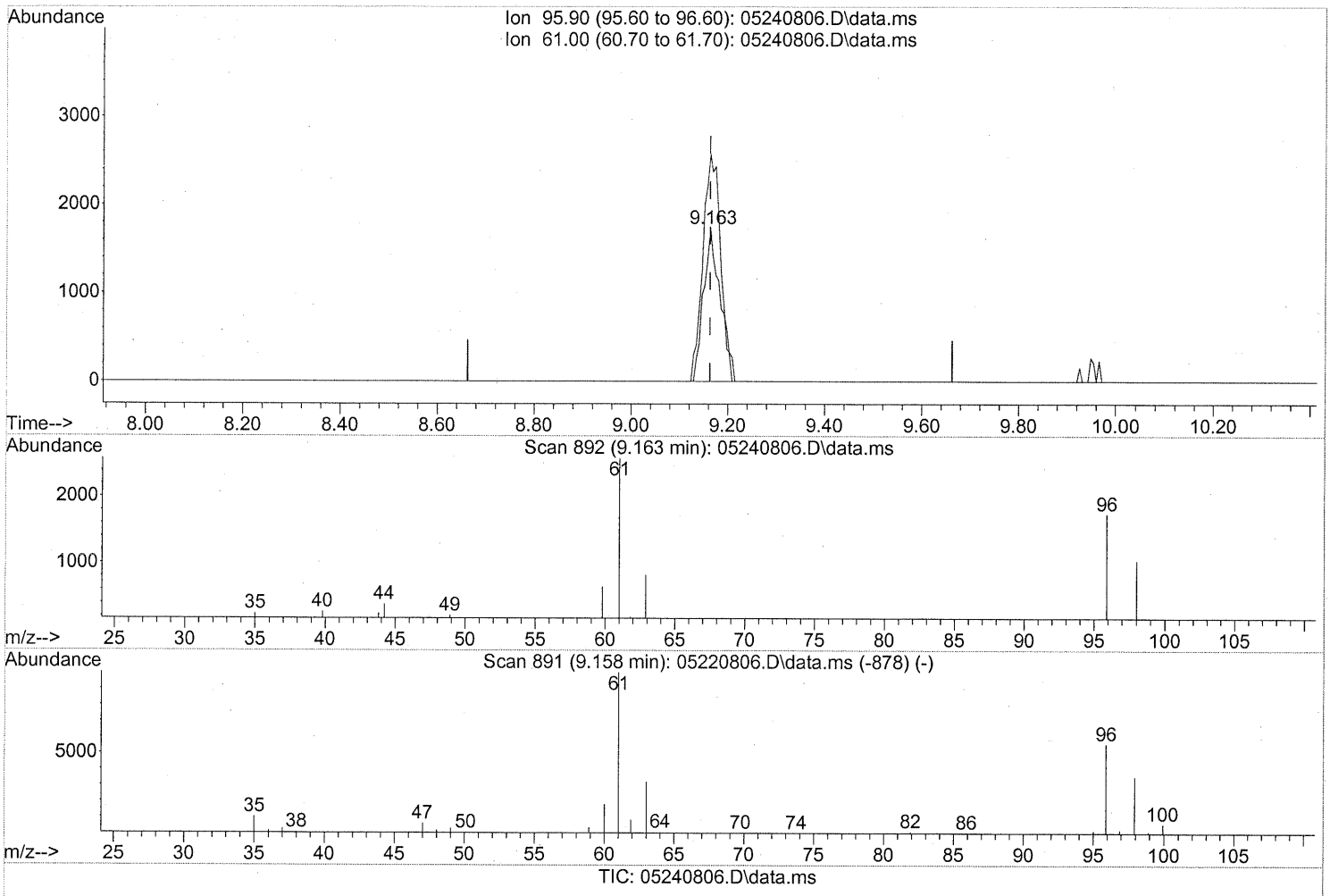
response 3504

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	67.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (+0.000) 0.17ng

response 4109

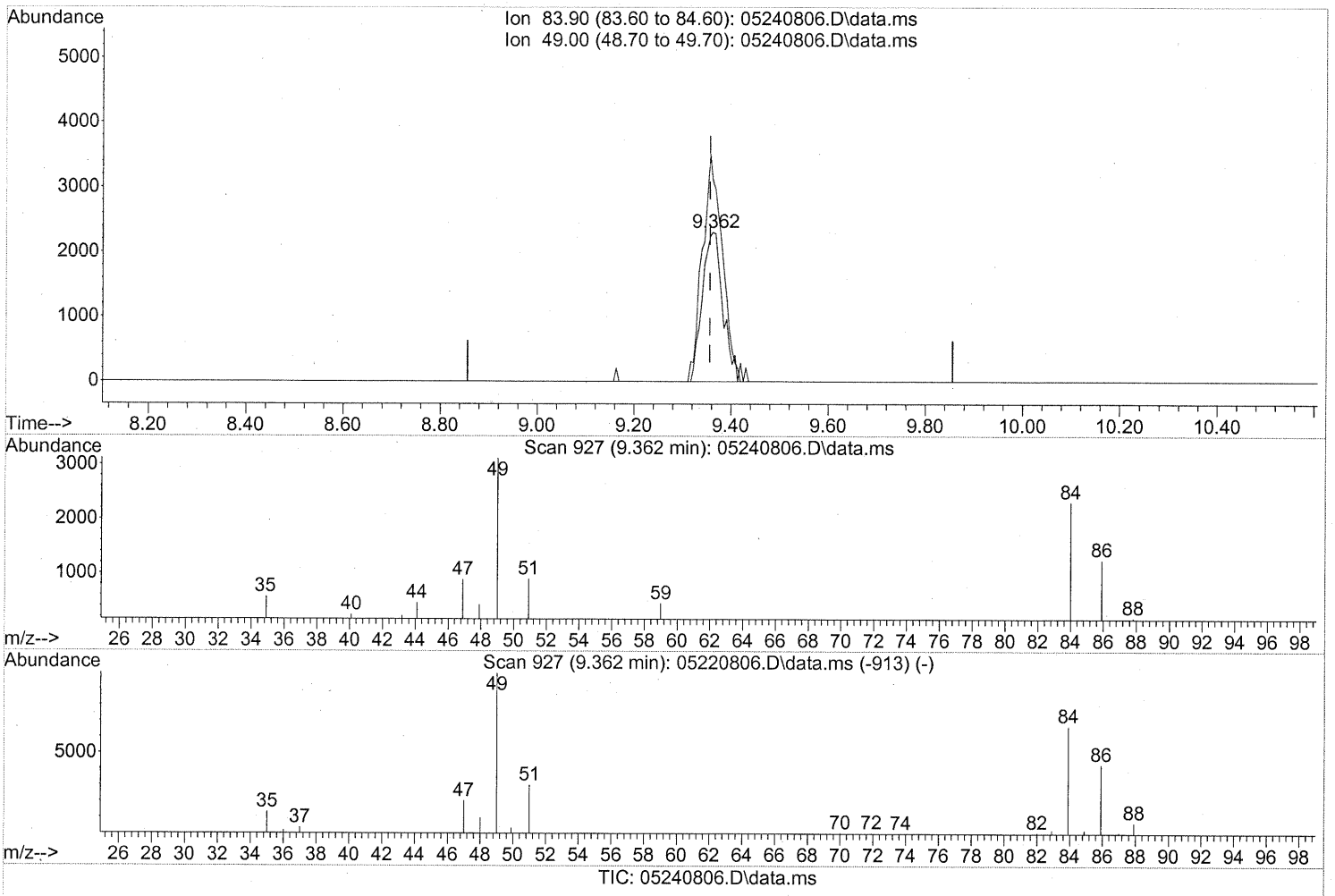
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	159.89#
0.00	0.00	0.00
0.00	0.00	0.00

250

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(19) Methylene Chloride (T)

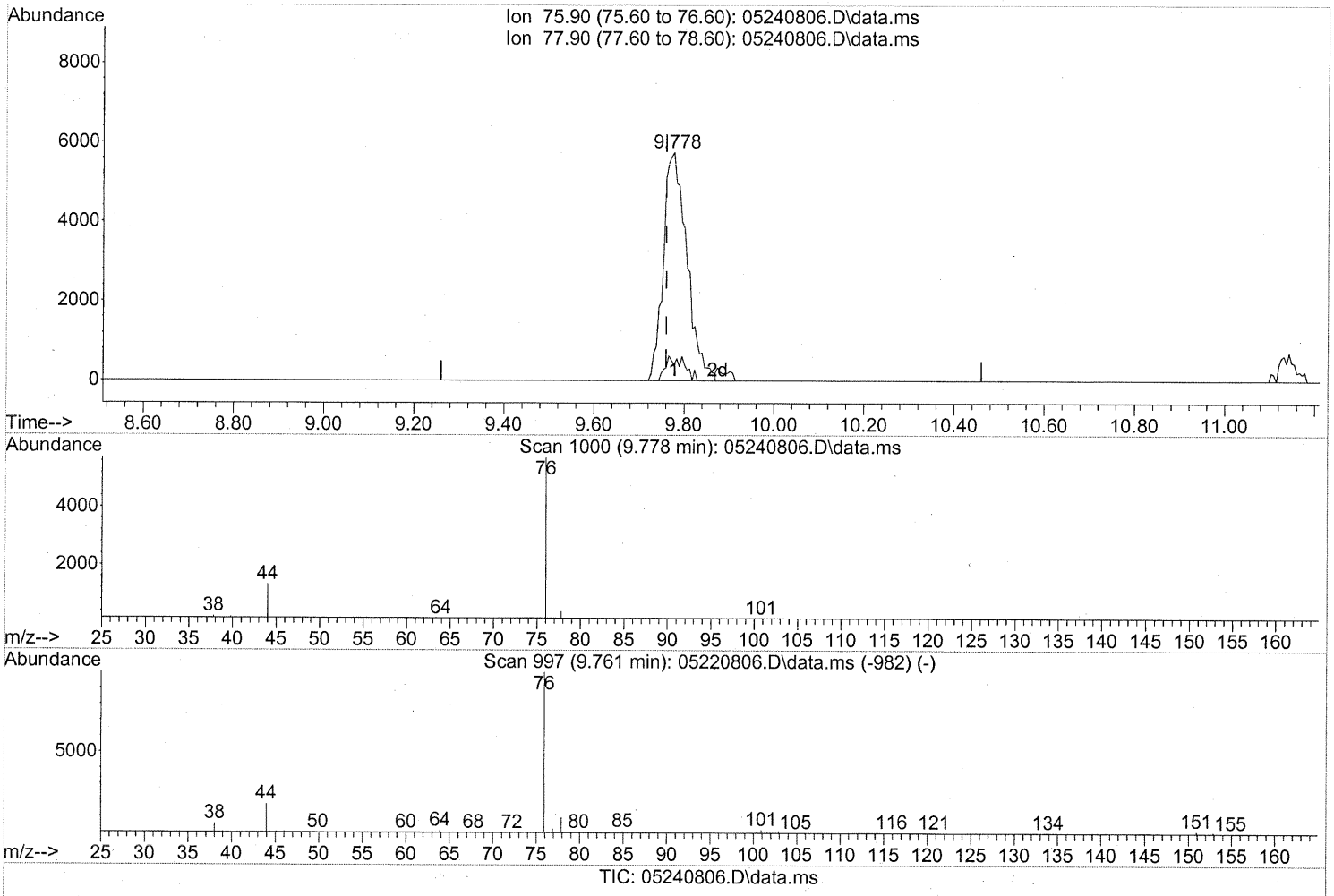
9.362min (+0.006) 0.26ng

response 6818

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	146.89#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(22) Carbon Disulfide (T)

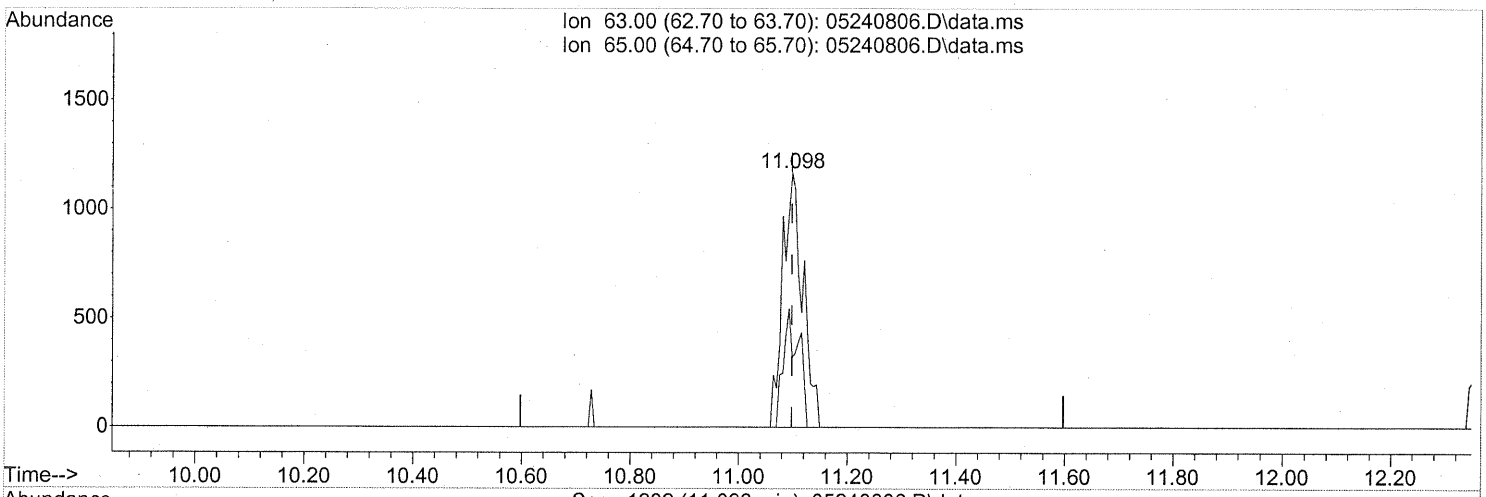
9.778min (+0.017) 0.20ng

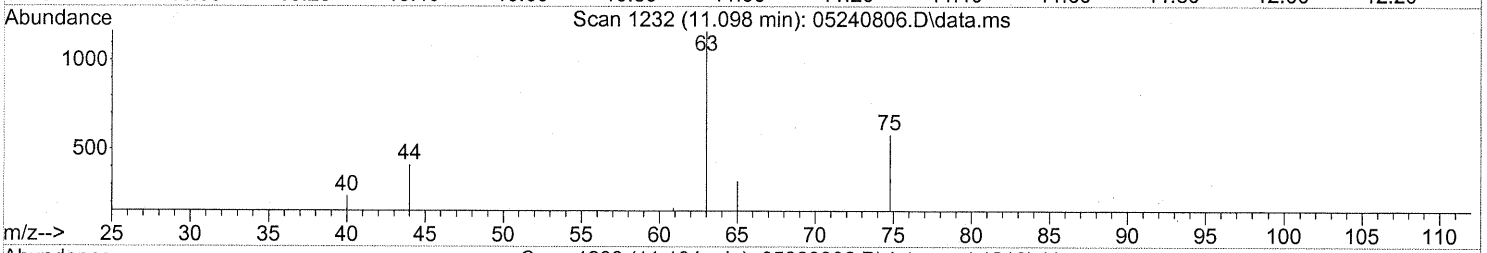
response 20570

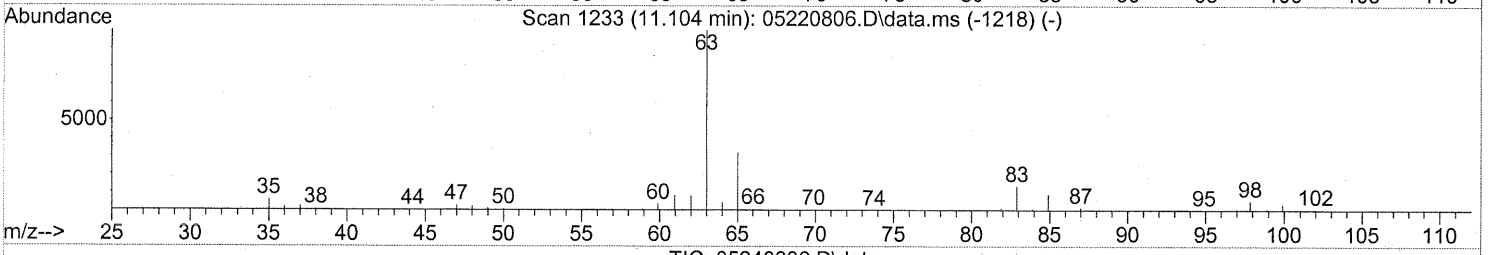
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.30
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240806.D\data.ms

(24) 1,1-Dichloroethane (T)

11.098min (+0.000) 0.06ng

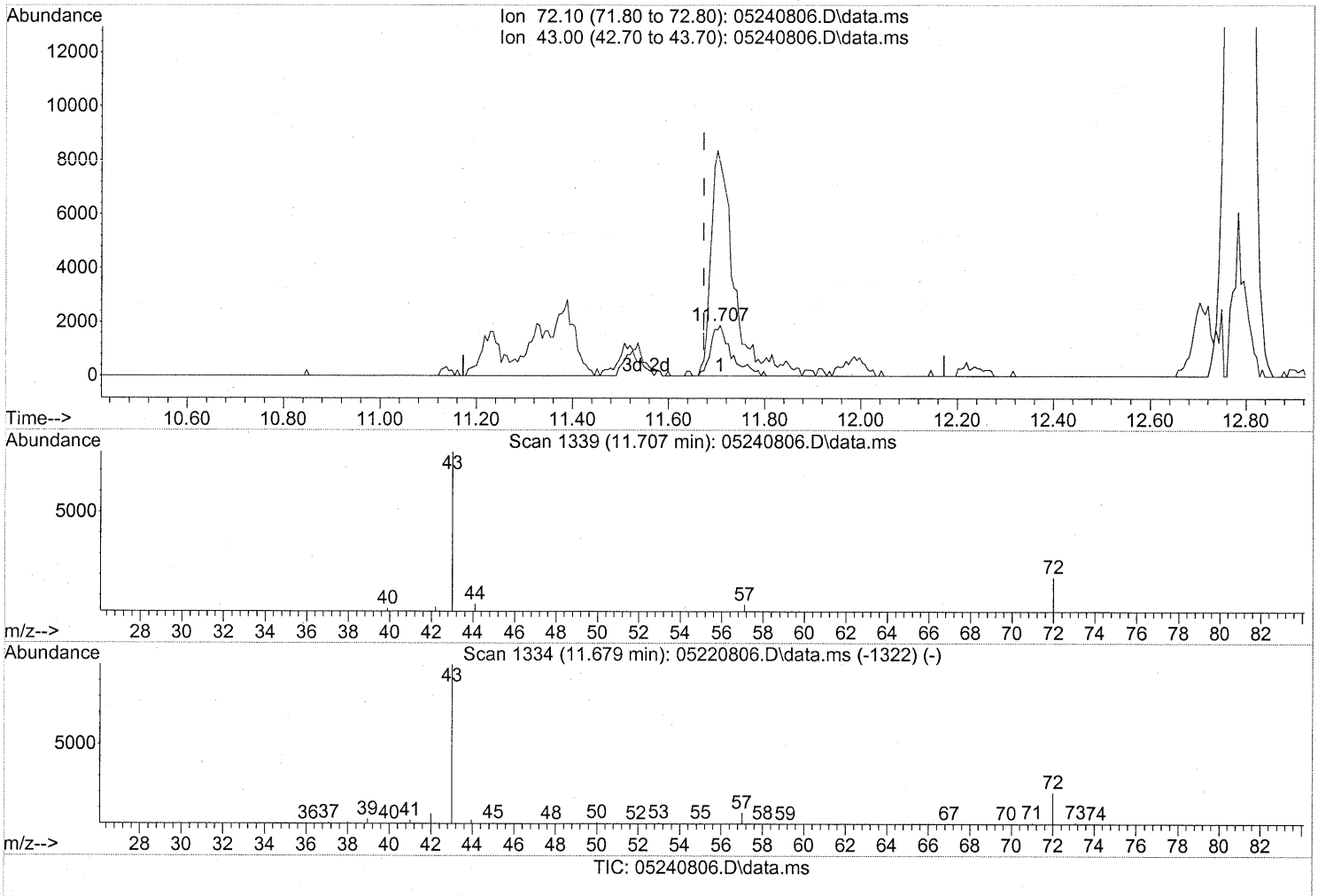
response 2987

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	35.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(27) 2-Butanone (T)

11.707min (+0.034) 0.33ng

response 5646

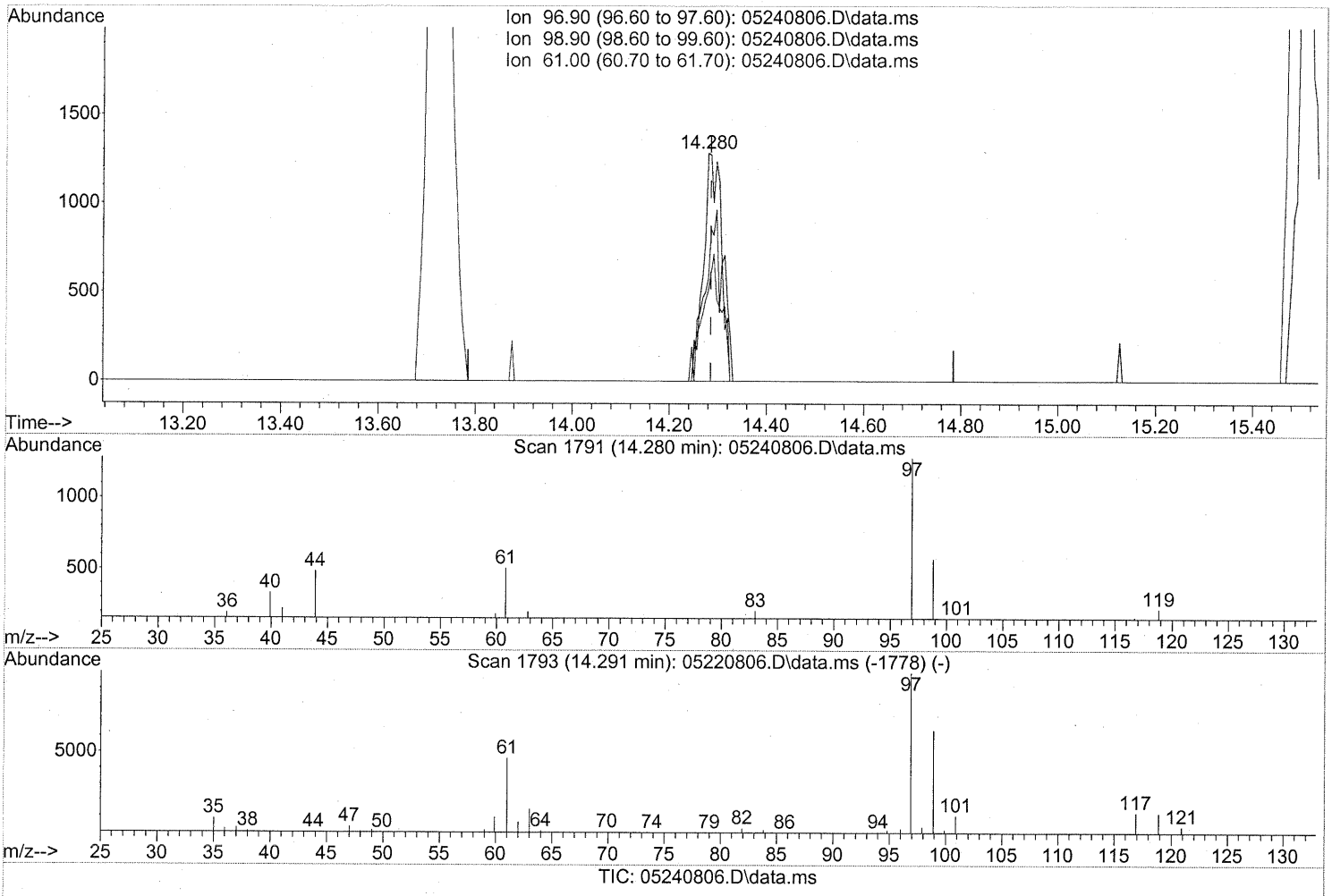
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	462.56#
0.00	0.00	0.00
0.00	0.00	0.00

254

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(38) 1,1,1-Trichloroethane (T)

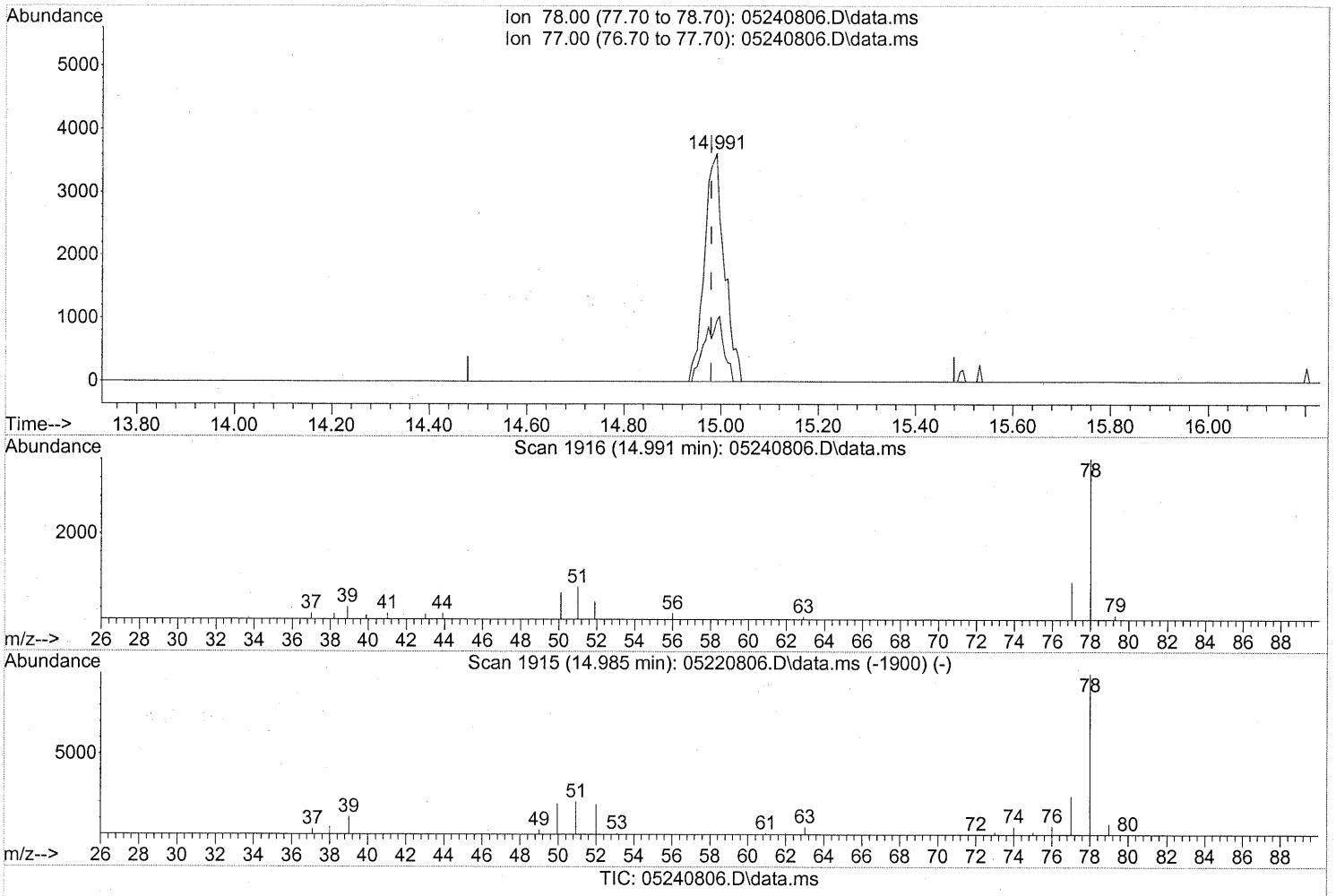
14.280min (-0.006) 0.08ng

response 3481

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	66.56
61.00	50.50	51.77
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(41) Benzene (T)

14.991min (+0.011) 0.10ng

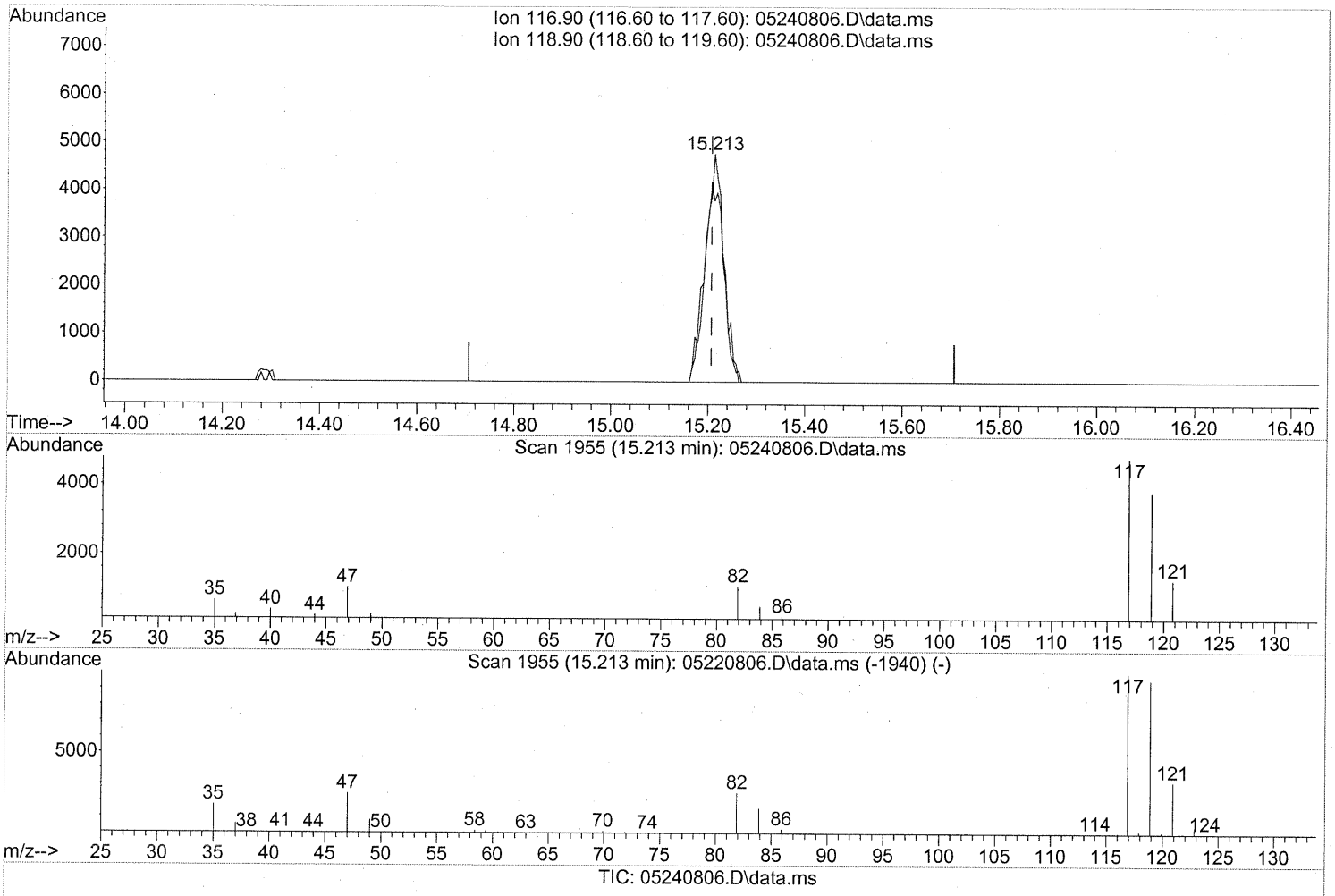
response 10250

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	26.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.32ng

response 12450

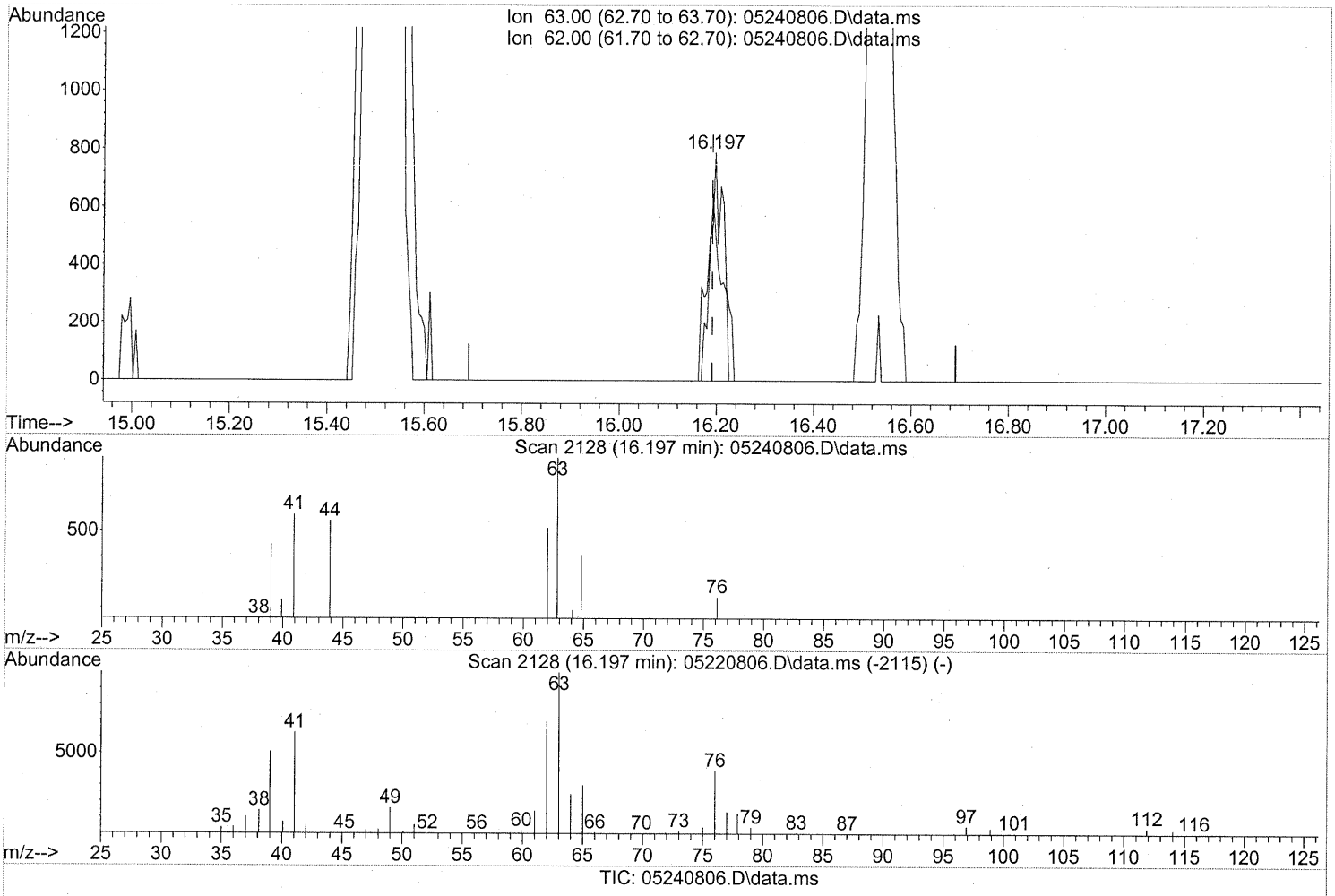
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.56
0.00	0.00	0.00
0.00	0.00	0.00

257

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.07ng

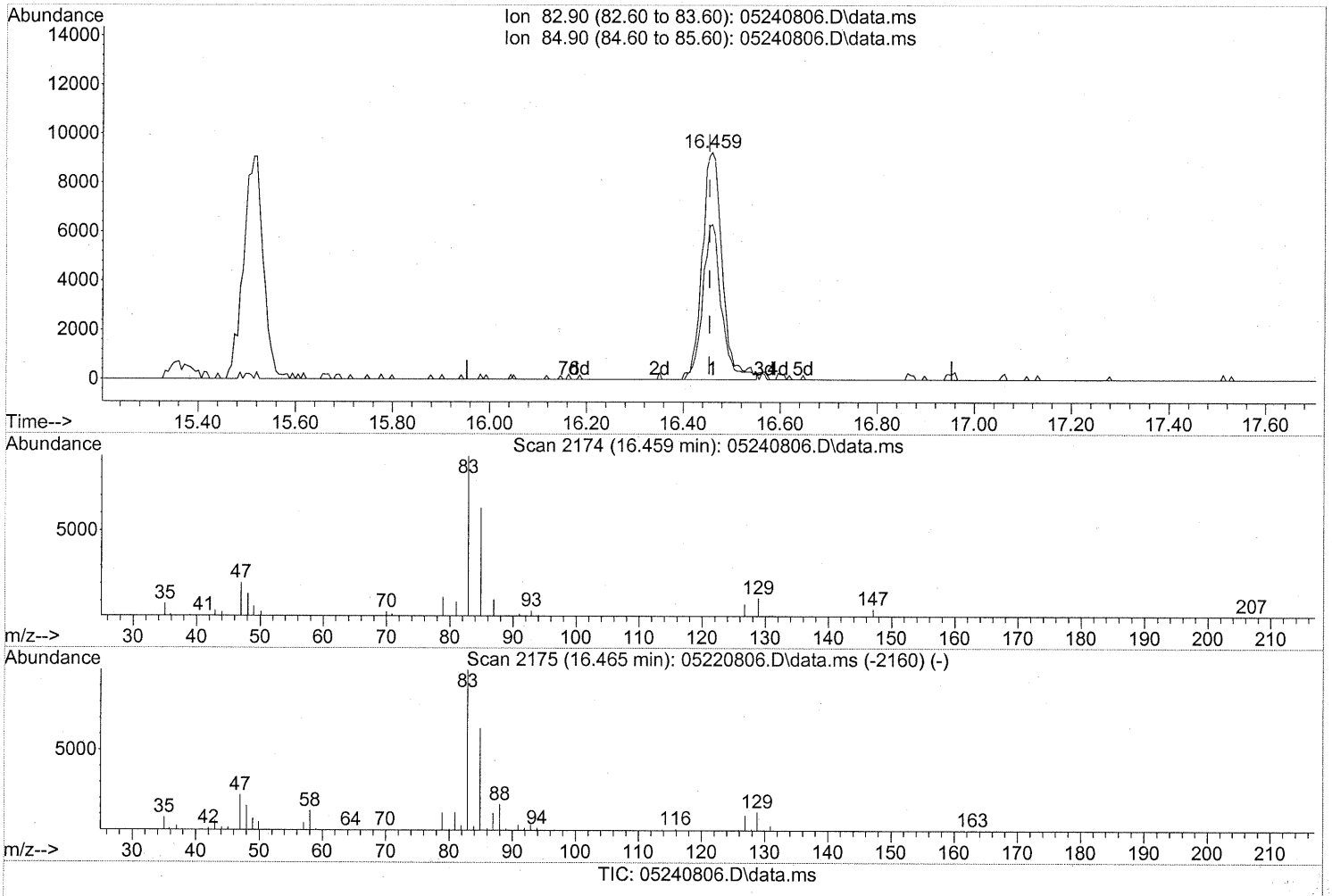
response 1801

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	62.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 0.79ng

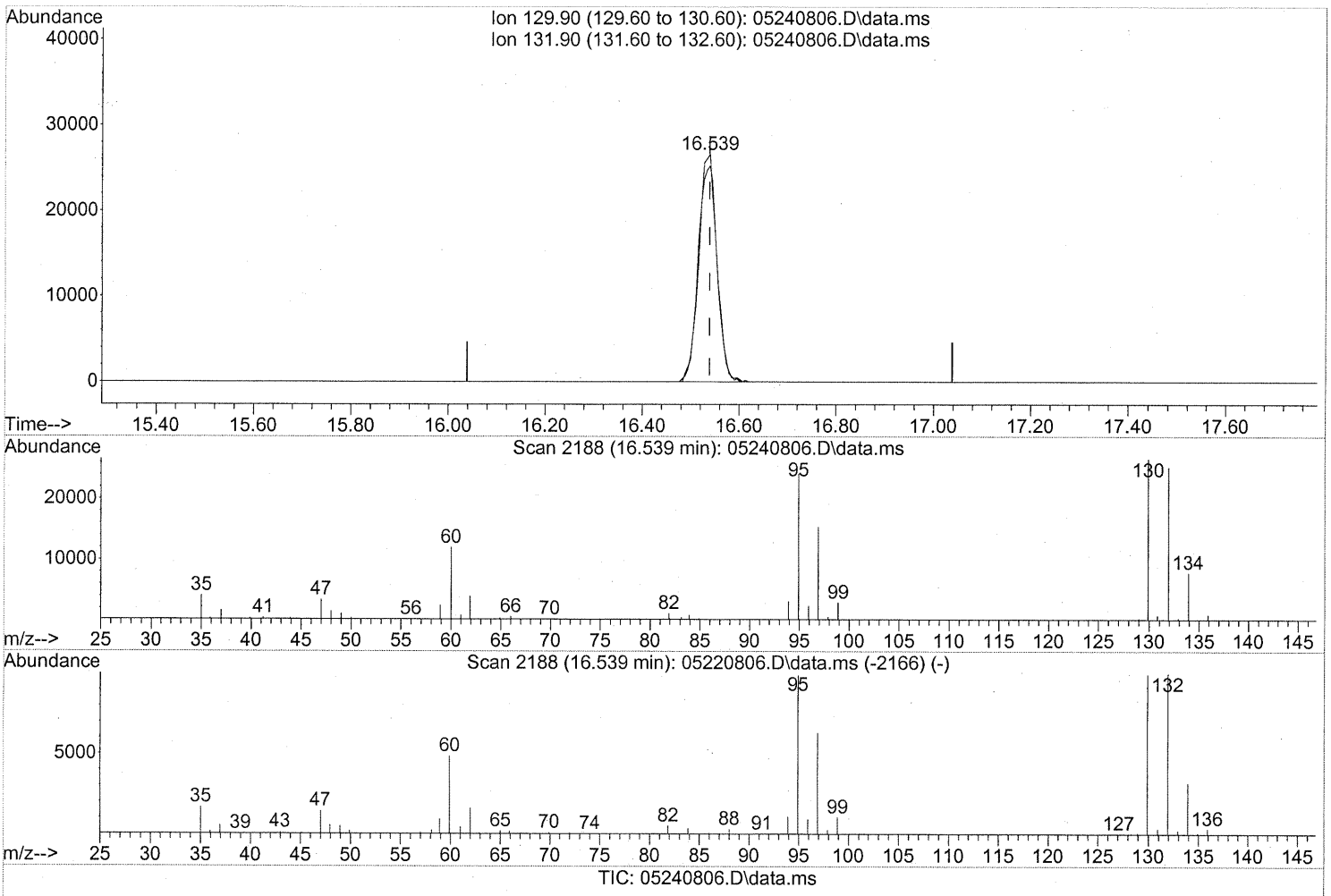
response 26628

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(47) Trichloroethene (T)

16.539min (+0.000) 2.28ng

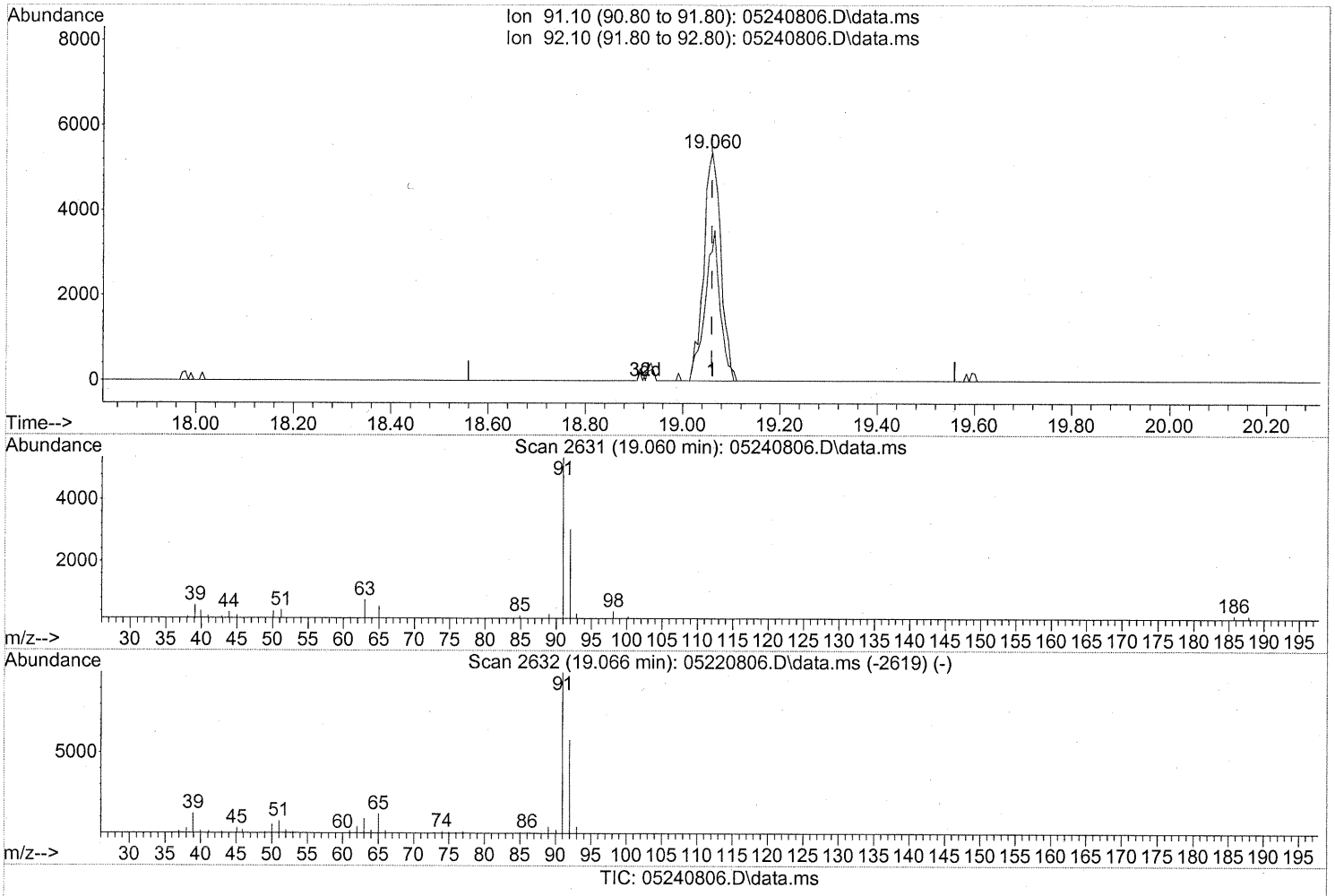
response 69801

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	96.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 0.12ng

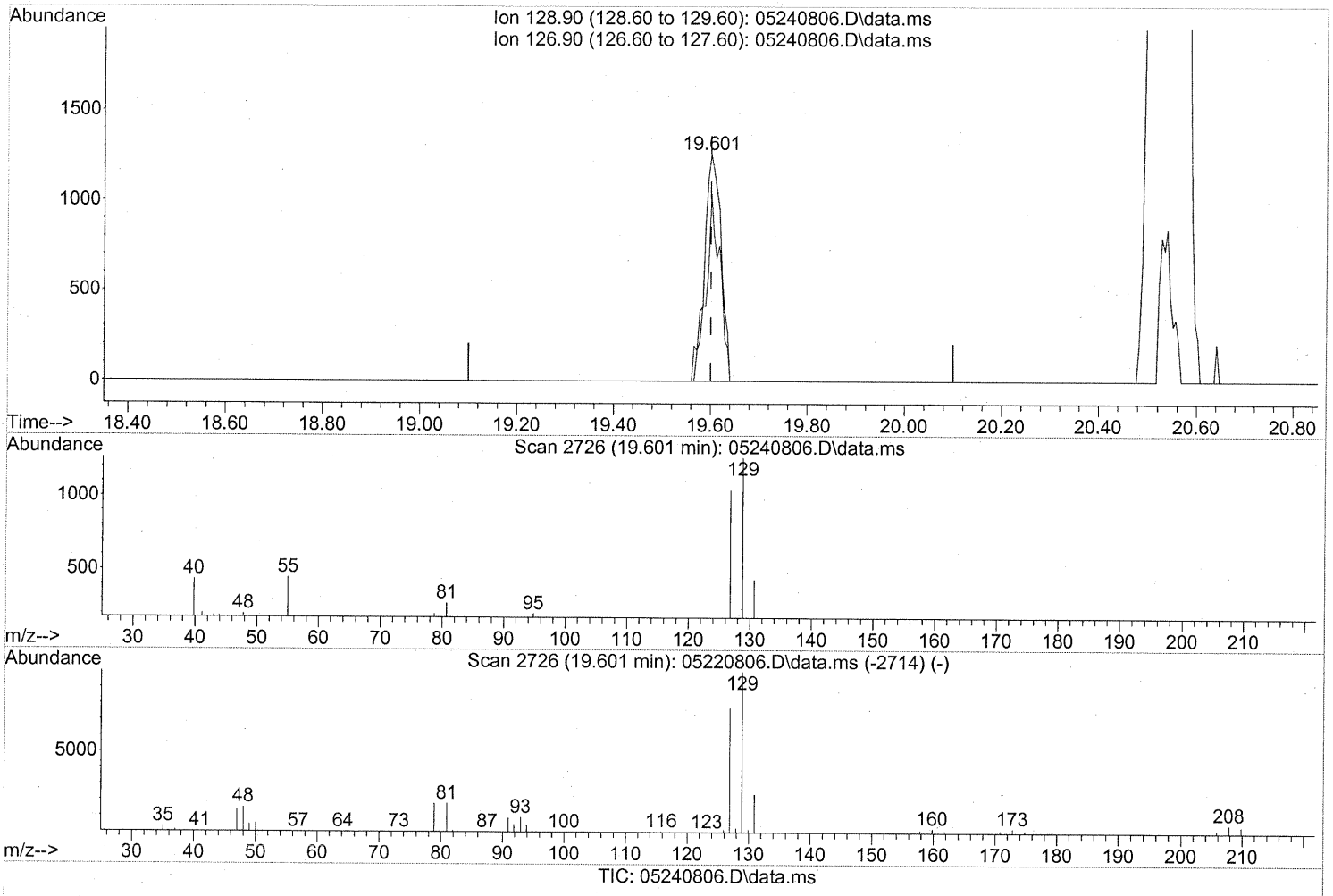
response 13180

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(60) Dibromochloromethane (T)

19.601min (+0.000) 0.10ng

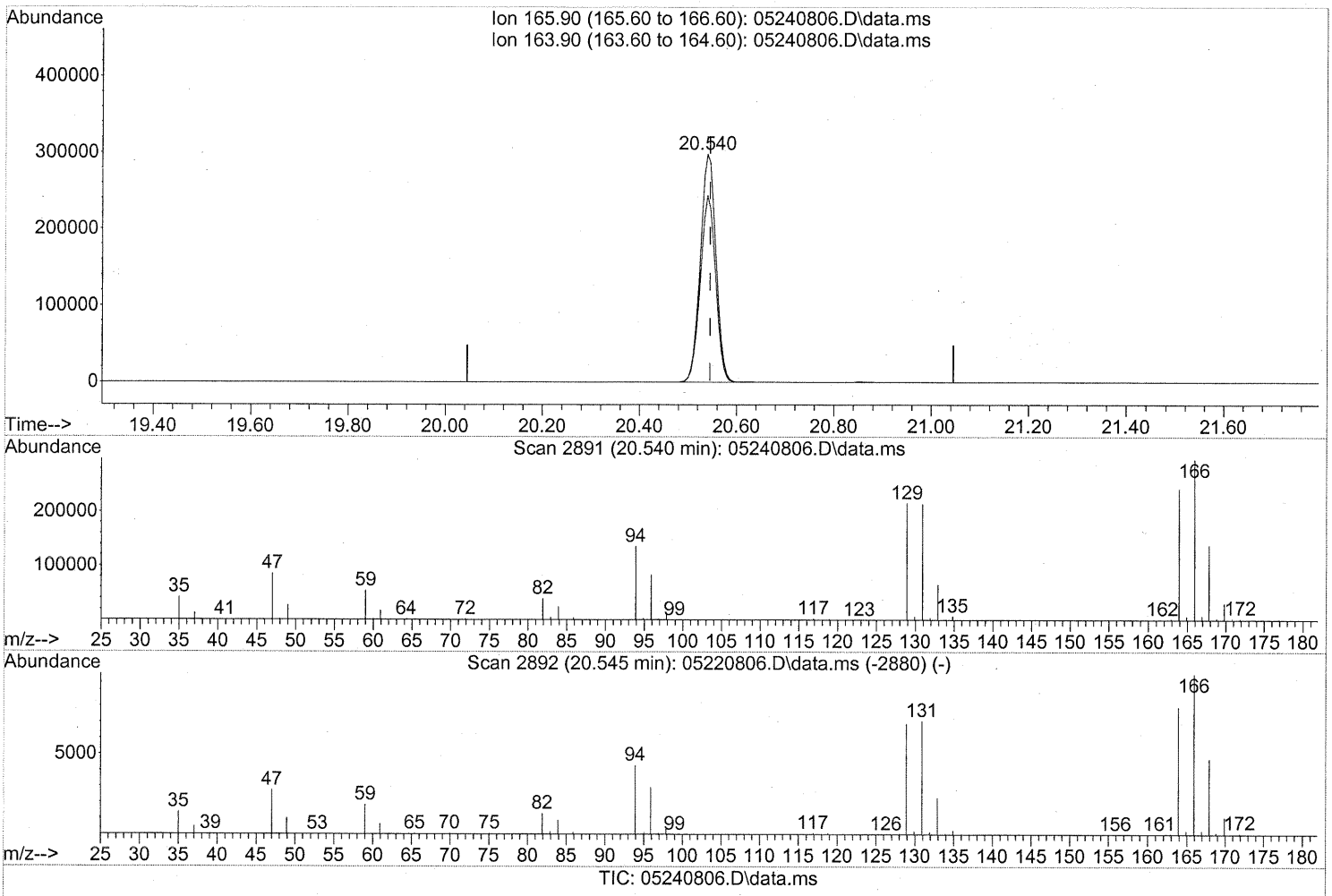
response 2952

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	72.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 20.16ng

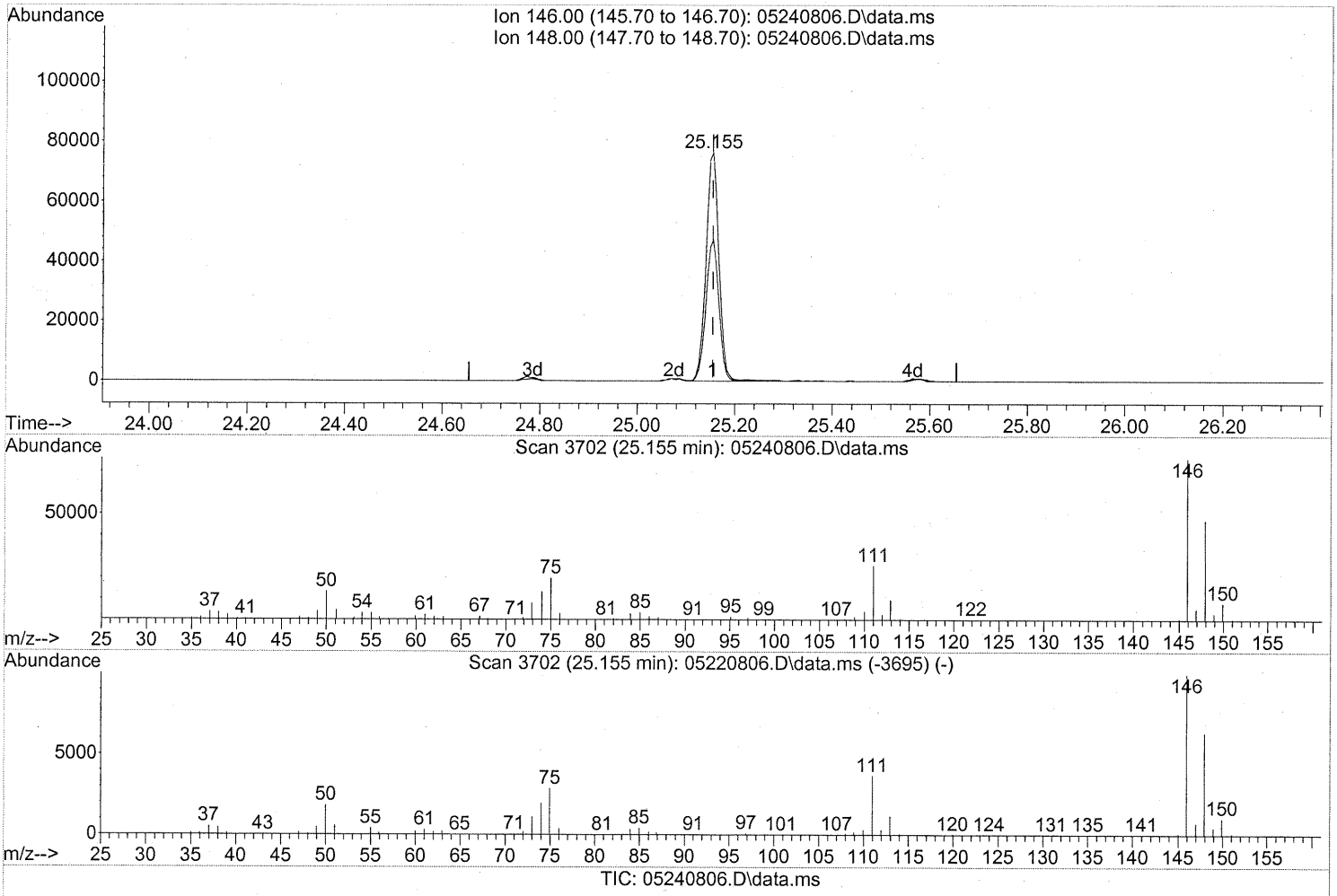
response 662357

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	80.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 2.07ng

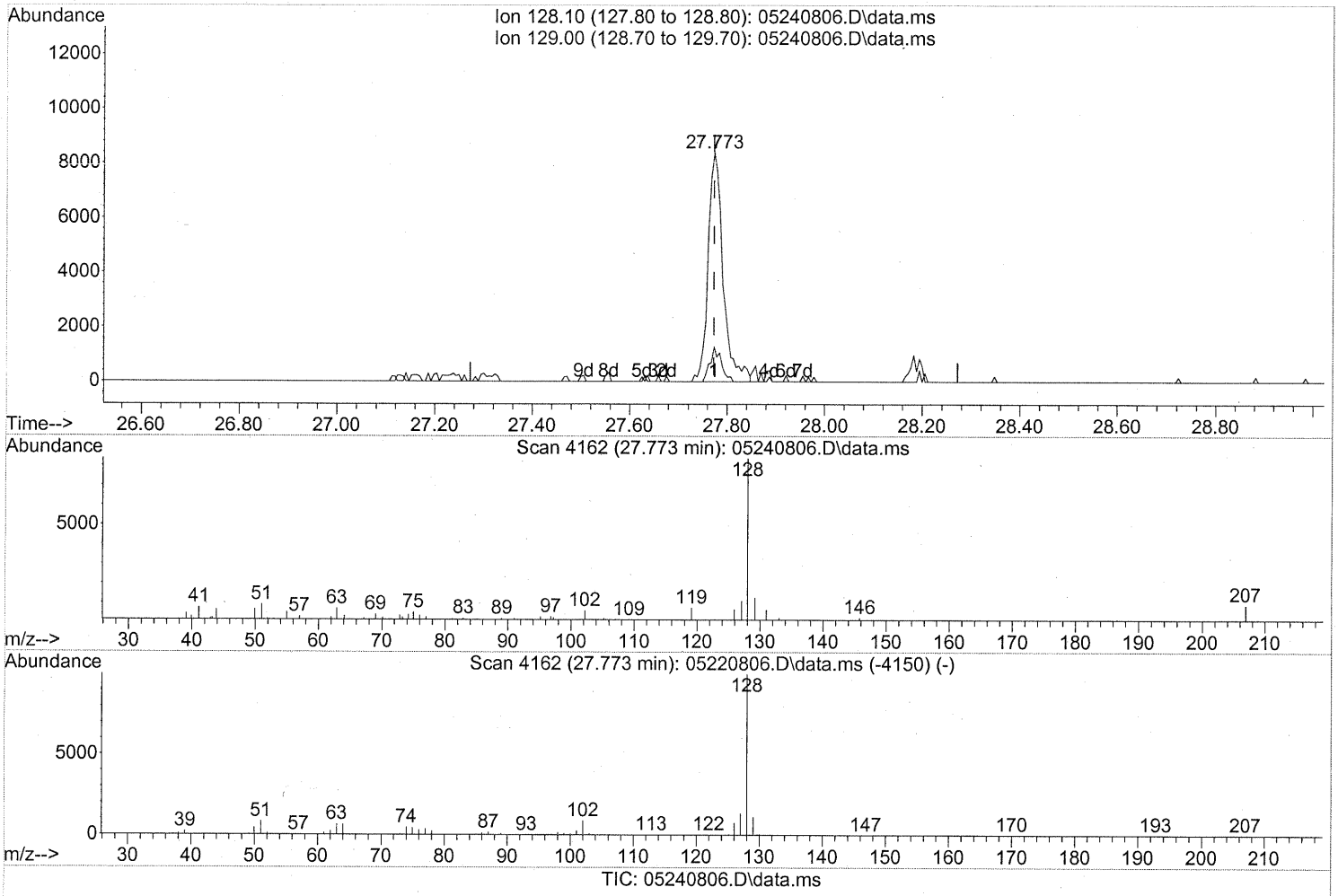
response 140353

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	61.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(95) Naphthalene (T)

27.773min (0.000) 0.12ng

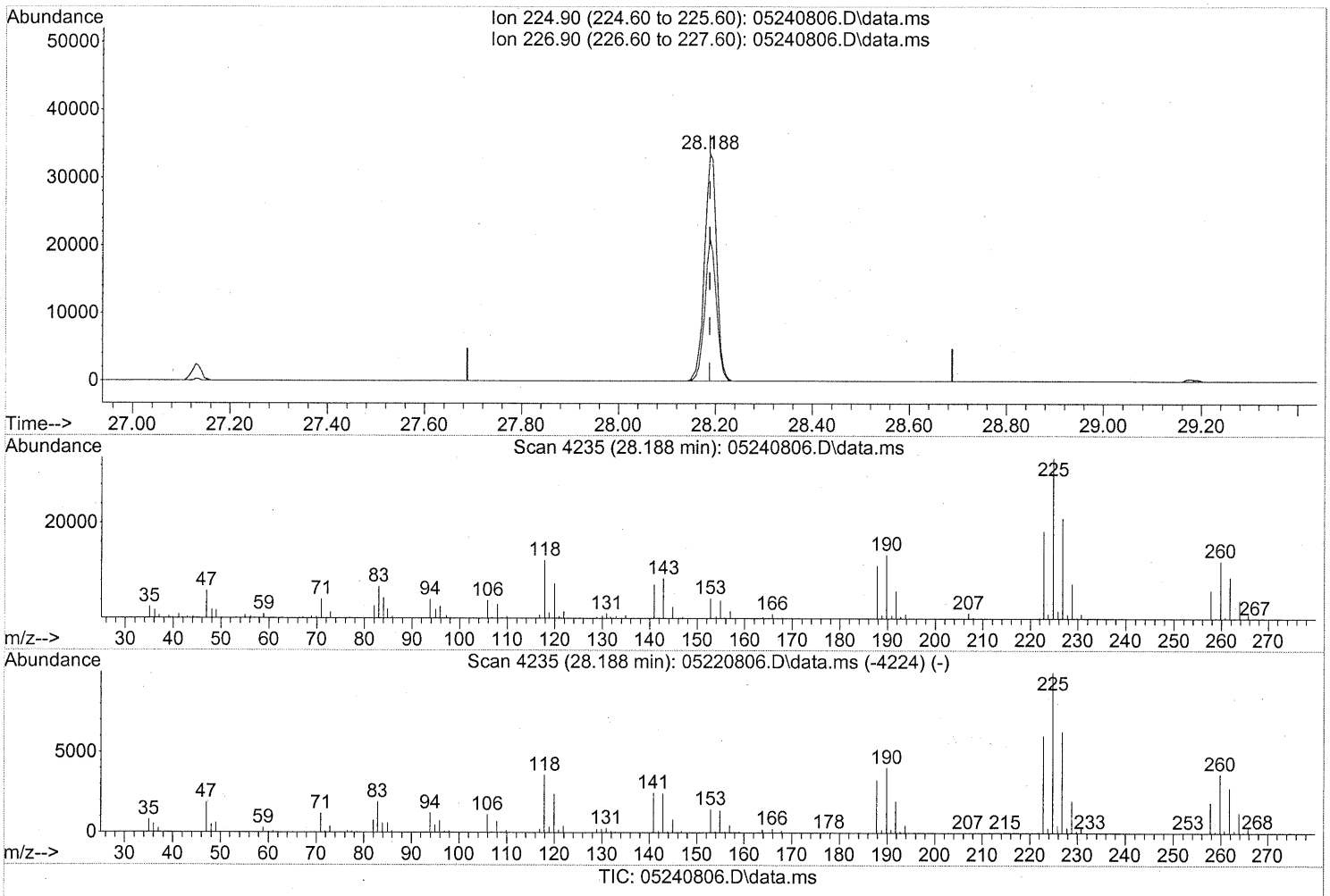
response 17794

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	11.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 13:13:29 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240806.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.188min (0.000) 1.81ng

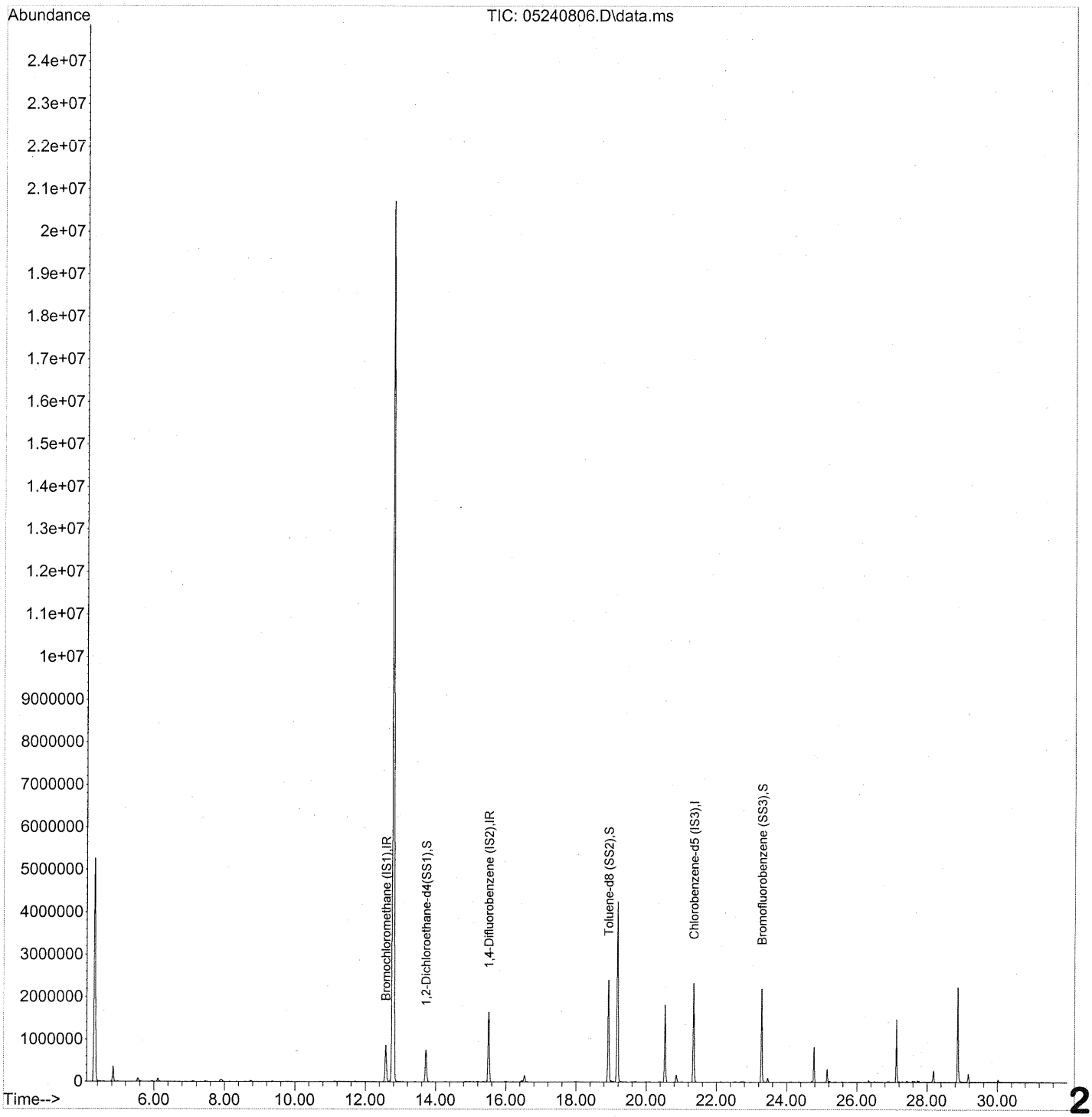
response 58335

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	59.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 25 20:36:13 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240806.D
Acq On : 24 May 2008 10:31
Operator : WA
Sample : P0801442-004 (50ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 25 20:36:13 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

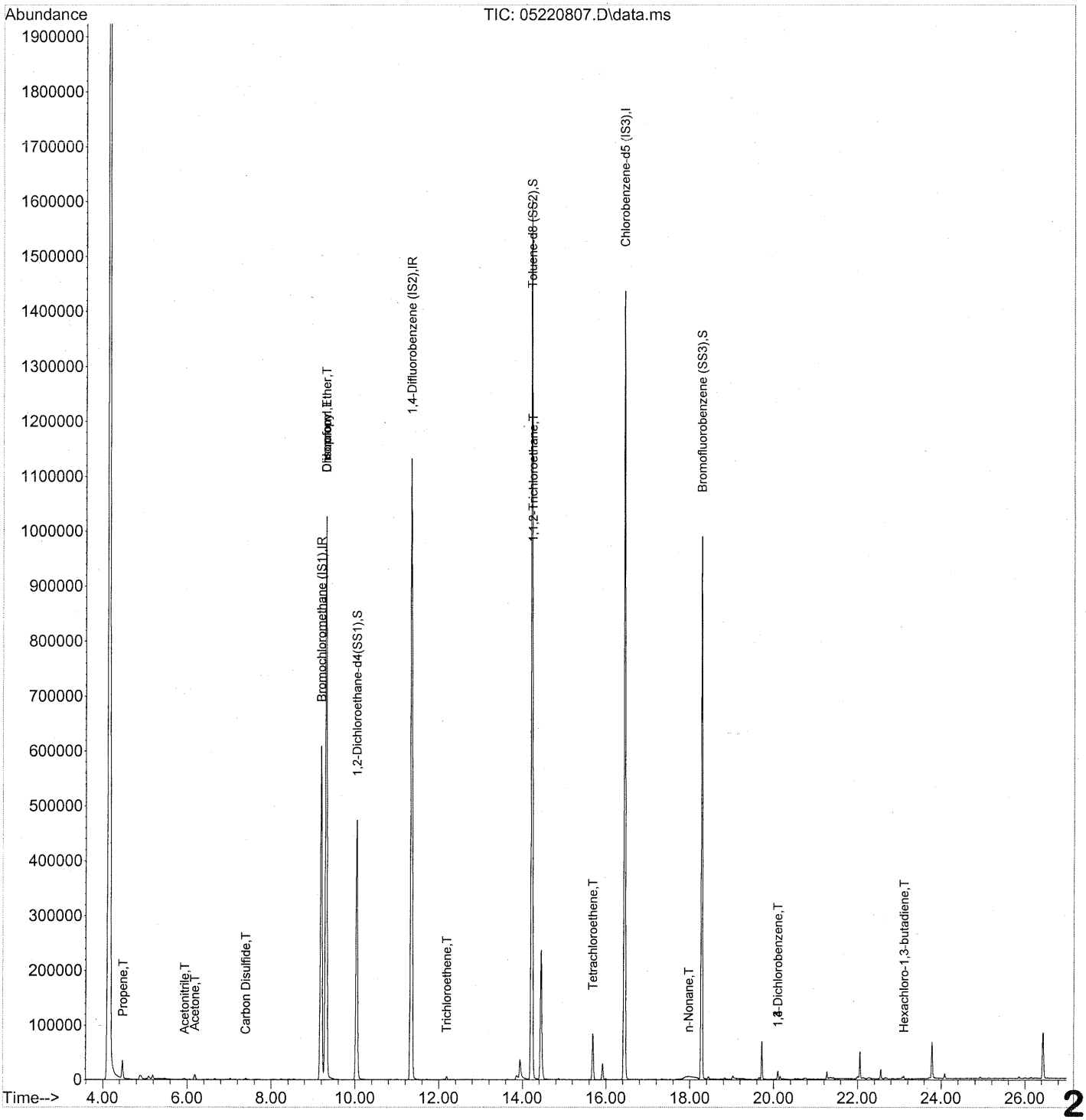
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	441193	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1908057	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	909547	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	761181	24.900	ng	-0.03
Spiked Amount 25.000			Recovery =	99.60%		
5) Toluene-d8 (SS2)	18.93	98	1997717	24.456	ng	-0.01
Spiked Amount 25.000			Recovery =	97.84%		
6) Bromofluorobenzene (SS3)	23.29	174	817701	24.616	ng	0.00
Spiked Amount 25.000			Recovery =	98.48%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	1227	N.D.		
8) n-Butylbenzene	25.91	91	1626	N.D.		

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

5/29/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 11:25
Operator : WA
Sample : P0801442-004 Dil (5.0ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:59:58 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220807.D
Acq On : 22 May 2008 11:25
Operator : WA
Sample : P0801442-004 Dil (5.0ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:59:58 2008
Quant Method : J:\MS16\METHODS\R16051208.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	294338	25.000	ng	-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1253056	25.000	ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	484420	25.000	ng	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	10.04	65	436853	21.047	ng	-0.05
Spiked Amount 25.000			Recovery = 84.20%			
57) Toluene-d8 (SS2)	14.22	98	1266470	26.552	ng	-0.02
Spiked Amount 25.000			Recovery = 106.20%			
73) Bromofluorobenzene (SS3)	18.28	174	348205	28.050	ng	-0.01
Spiked Amount 25.000			Recovery = 112.20%			
Target Compounds						Qvalue
2) Propene	4.48	42	3362	0.114	ng	# 1
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	4.75	50	90	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	118	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	5.72	45	98	N.D.		
11) Acetonitrile	5.94	41	3551	0.068	ng	# 51
12) Acrolein	6.05	56	605	N.D.		
13) Acetone	6.18	58	3847	0.198	ng	# 86
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	6.39	45	434	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	6.98	59	91	N.D.		
19) Methylene Chloride	7.04	84	763	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	3864	0.067	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	108714	8.525	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

5/26/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 11:25
Operator : WA
Sample : P0801442-004 Dil (5.0ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:59:58 2008
Quant Method : J:\MS16\METHODS\R16051208.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	9.31	83	1002414	45.672 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	10.83	56	403	N.D.		
41) Benzene	11.00	78	1031	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	11.33	84	619	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	12.14	83	858	N.D.		
47) Trichloroethene	12.19	130	3000	0.177 ng		99
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	106600	7.151 ng	#	6
58) Toluene	14.35	91	799	N.D.		
59) 2-Hexanone	14.60	43	106	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	90	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	15.69	166	32834	2.273 ng		98
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	17.14	91	677	N.D.		
67) m- & p-Xylene	17.14	91	677	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	17.97	43	15678	0.305 ng	#	19
72) 1,1,2,2-Tetrachloroethane	18.02	83	90	N.D.		
74) Cumene	18.28	105	551	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	19.20	105	96	N.D.		
78) 4-Ethyltoluene	19.24	105	131	N.D.		
79) 1,3,5-Trimethylbenzene	19.24	105	131	N.D.		

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5/26/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 11:25
Operator : WA
Sample : P0801442-004 Dil (5.0ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:59:58 2008
Quant Method : J:\MS16\METHODS\R16051208.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

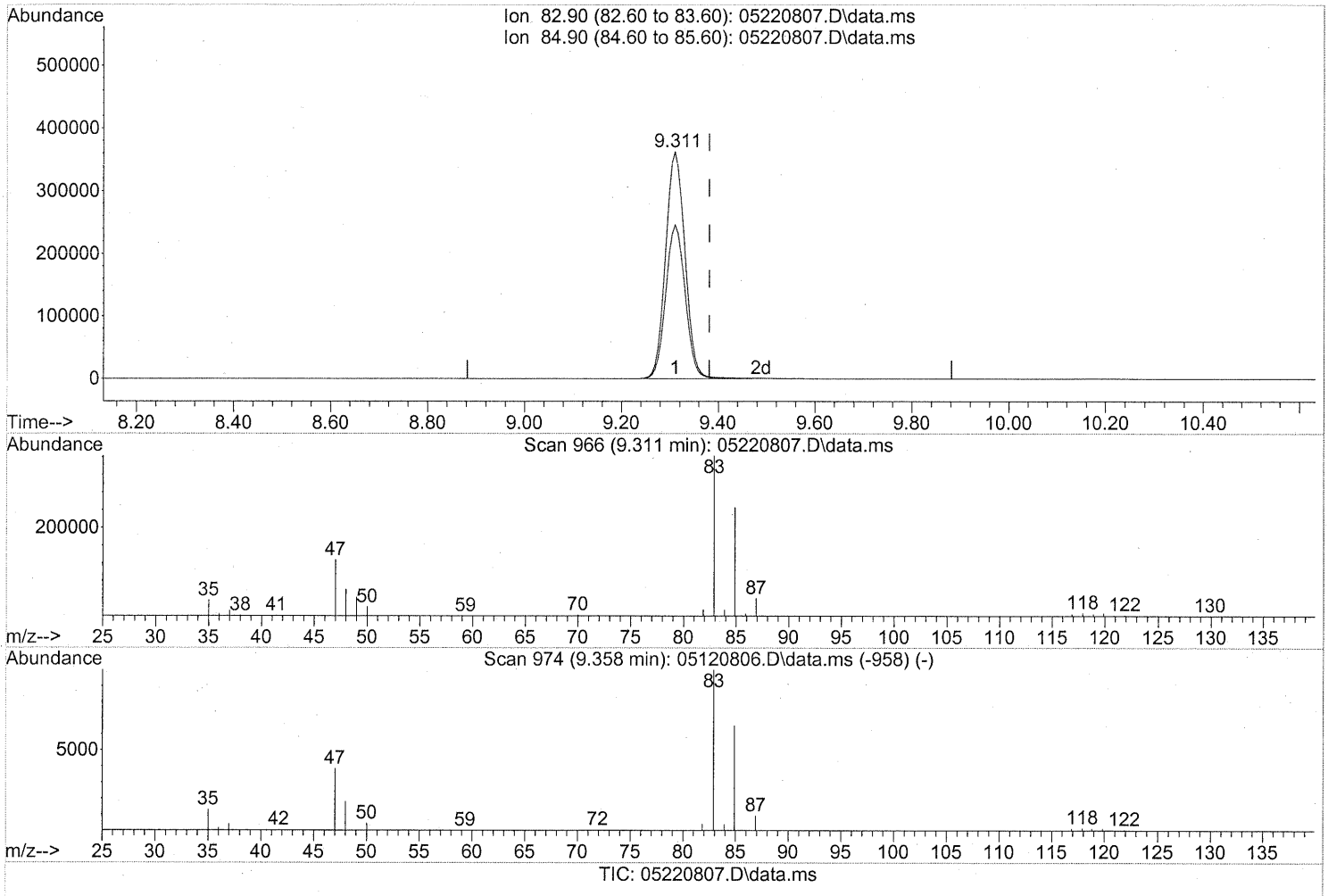
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	440	N.D.	
81) 2-Ethyltoluene	19.57	105	235	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	381	N.D.	
83) n-Decane	19.94	57	116	N.D.	
84) Benzyl Chloride	20.21	91	181	N.D.	
85) 1,3-Dichlorobenzene	20.10	146	7745	0.229 ng	99
86) 1,4-Dichlorobenzene	20.10	146	7745	0.239 ng	98
87) sec-Butylbenzene	19.82	105	381	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	20.77	105	207	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	515	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	2498	N.D.	
96) n-Dodecane	22.66	57	1148	N.D.	
97) Hexachloro-1,3-butadiene	23.11	225	1272	0.156 ng	86

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 11:25
Operator : WA
Sample : P0801442-004 Dil (5.0ml)
Misc : ENSR SG36B-20 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 08:59:58 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220807.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 45.67ng

response 1002414

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.00
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG44B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

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**	0.81	0.081	**0.41**	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.081	ND	0.078	0.039	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.089**	0.81	0.081	**0.013**	0.12	0.012	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.081	ND	0.063	0.032	
74-83-9	Bromomethane	ND	0.16	0.081	ND	0.042	0.021	
75-00-3	Chloroethane	ND	0.16	0.081	ND	0.061	0.031	
64-17-5	**Ethanol**	**3.0**	8.1	0.081	**1.6**	4.3	0.043	**J**
67-64-1	**Acetone**	**13**	8.1	0.12	**5.5**	3.4	0.050	**B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.16	0.081	**0.19**	0.029	0.014	
107-13-1	**Acrylonitrile**	**0.17**	0.81	0.11	**0.078**	0.37	0.052	**J**
75-35-4	1,1-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.52**	0.81	0.12	**0.17**	0.27	0.040	**J**
75-09-2	**Methylene Chloride**	**0.089**	0.81	0.081	**0.026**	0.23	0.023	**J**
107-05-1	**3-Chloro-1-propene (Allyl Chloride)**	**1.0**	0.16	0.081	**0.33**	0.052	0.026	
76-13-1	**Trichlorotrifluoroethane**	**0.46**	0.16	0.091	**0.060**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**1.9**	0.81	0.19	**0.60**	0.26	0.062	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.081	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.081	ND	0.045	0.022	
108-05-4	**Vinyl Acetate**	**2.1**	8.1	0.26	**0.59**	2.3	0.074	**J, M**
78-93-3	**2-Butanone (MEK)**	**6.8**	0.81	0.081	**2.3**	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.081	ND	0.041	0.020	
108-20-3	Diisopropyl Ether	ND	0.81	0.096	ND	0.19	0.023	
67-66-3	**Chloroform**	**4.1**	0.16	0.096	**0.84**	0.033	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
B = Analyte was found in the method blank.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG44B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00868

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

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	0.81	0.083	ND	0.19	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.081	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.081	ND	0.030	0.015	
71-43-2	**Benzene**	**3.1**	0.16	0.081	**0.97**	0.051	0.025	
56-23-5	**Carbon Tetrachloride**	**0.92**	0.16	0.081	**0.15**	0.026	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.81	0.081	ND	0.19	0.019	
78-87-5	**1,2-Dichloropropane**	**0.20**	0.16	0.081	**0.043**	0.035	0.018	
75-27-4	Bromodichloromethane	ND	0.16	0.081	ND	0.024	0.012	
79-01-6	Trichloroethene	ND	0.16	0.081	ND	0.030	0.015	
123-91-1	**1,4-Dioxane**	**0.20**	0.81	0.099	**0.057**	0.22	0.027	**J**
80-62-6	Methyl Methacrylate	ND	0.81	0.12	ND	0.20	0.030	
142-82-5	n-Heptane	ND	0.81	0.10	ND	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.084	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	0.81	0.091	**0.066**	0.20	0.022	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	0.10	ND	0.18	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.081	ND	0.030	0.015	
108-88-3	**Toluene**	**1.0**	0.81	0.081	**0.28**	0.22	0.022	
591-78-6	**2-Hexanone**	**0.30**	0.81	0.12	**0.073**	0.20	0.030	**J**
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.087	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.81	0.081	ND	0.17	0.017	
127-18-4	**Tetrachloroethene**	**0.50**	0.16	0.081	**0.074**	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.083	ND	0.035	0.018	

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

Verified By: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG44B-05** CAS Sample ID: P0801442-005
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00868

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.16**	0.81	0.10	**0.037**	0.19	0.023	**J**
179601-23-1	**m,p-Xylenes**	**0.74**	0.81	0.21	**0.17**	0.19	0.049	**J**
75-25-2	Bromoform	ND	0.81	0.12	ND	0.078	0.012	
100-42-5	Styrene	ND	0.81	0.12	ND	0.19	0.029	
95-47-6	**o-Xylene**	**0.58**	0.81	0.10	**0.13**	0.19	0.024	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.024	0.015	
98-82-8	Cumene	ND	0.81	0.091	ND	0.16	0.018	
103-65-1	**n-Propylbenzene**	**0.11**	0.81	0.084	**0.022**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.30**	0.81	0.092	**0.062**	0.16	0.019	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.31**	0.81	0.097	**0.062**	0.16	0.020	**J**
98-83-9	alpha-Methylstyrene	ND	0.81	0.12	ND	0.17	0.024	
95-63-6	**1,2,4-Trimethylbenzene**	**0.38**	0.81	0.11	**0.076**	0.16	0.023	**J**
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**	**78**	0.16	0.091	**13**	0.027	0.015	
135-98-8	sec-Butylbenzene	ND	0.81	0.094	ND	0.15	0.017	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.18**	0.81	0.11	**0.033**	0.15	0.019	**J**
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	0.81	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**	**1.8**	0.32	0.12	**0.35**	0.062	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.15	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.32	0.081	ND	0.059	0.015	
104-51-8	n-Butylbenzene	ND	0.32	0.081	ND	0.059	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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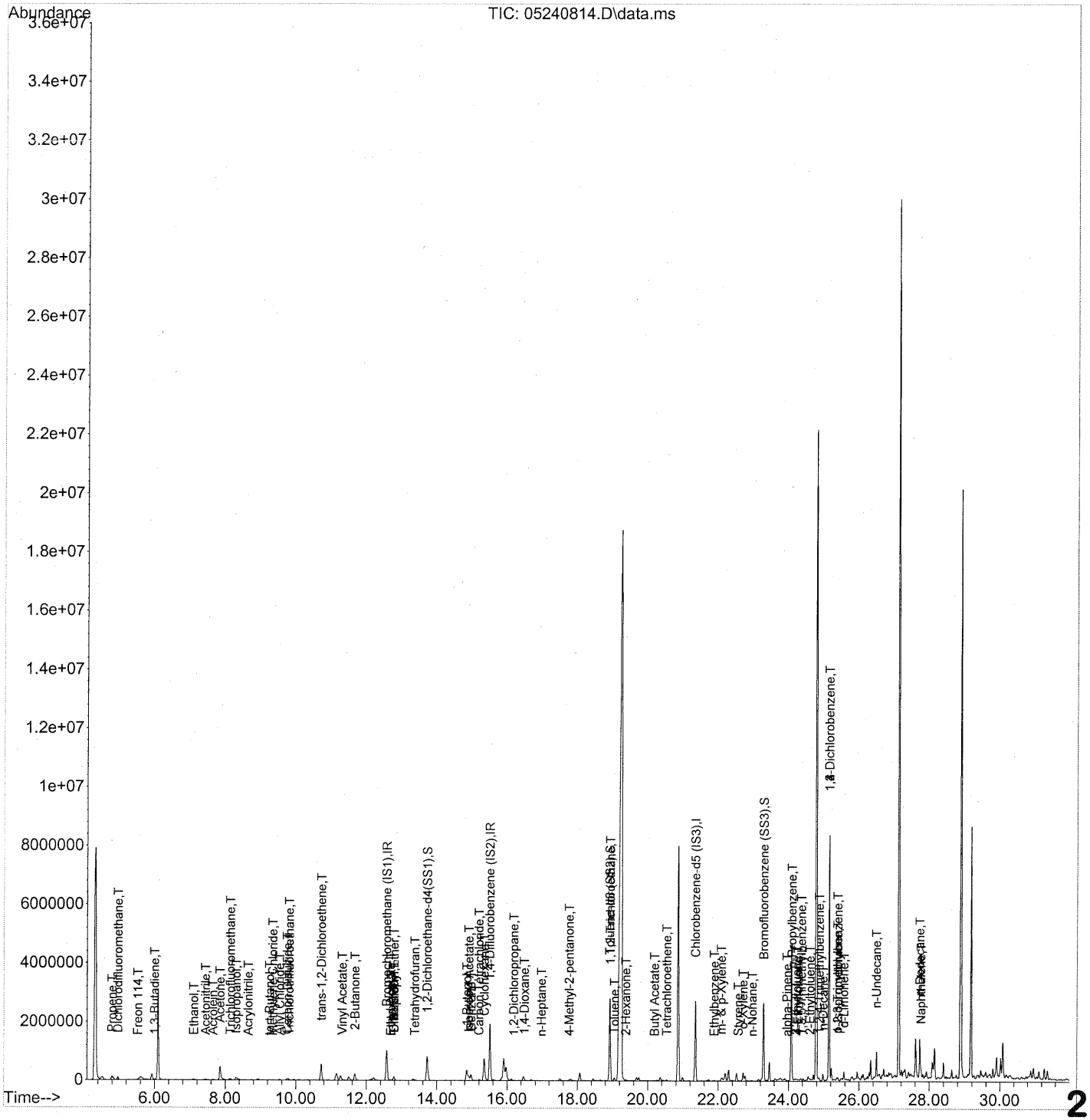
Verified By: Rc Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

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QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	528796	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2294376	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1068545	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	847118	23.120	ng		0.00
Spiked Amount 25.000			Recovery = 92.48%				
57) Toluene-d8 (SS2)	18.92	98	2380986	24.811	ng		0.00
Spiked Amount 25.000			Recovery = 99.24%				
73) Bromofluorobenzene (SS3)	23.29	174	1000648	25.642	ng		0.00
Spiked Amount 25.000			Recovery = 102.56%				
Target Compounds							Qvalue
2) Propene	4.80	42	62904	1.506	ng	#	73
3) Dichlorodifluoromethane	4.96	85	96769	1.257	ng		99
4) Chloromethane	5.28	50	69	N.D. ✓			
5) Freon 114	5.53	135	2085	0.055	ng		82
6) Vinyl Chloride	0.00	62	0	N.D. ✓			
7) 1,3-Butadiene	6.00	54	13907	0.375	ng	#	78
8) Bromomethane	6.49	94	354	N.D. ✓			
9) Chloroethane	6.84	64	306	N.D. ✓			
10) Ethanol	7.11	45	52118m	1.875	ng		
11) Acetonitrile	7.44	41	55848	0.695	ng		95
12) Acrolein	7.65	56	28985	1.459	ng		99
13) Acetone	7.85	58	230920m	8.112	ng		
14) Trichlorofluoromethane	8.14	101	43532	0.659	ng		96
15) Isopropanol	8.31	45	195181	2.150	ng		96
16) Acrylonitrile	8.65	53	4532	0.105	ng		91
17) 1,1-Dichloroethene	0.00	96	0	N.D. ✓			
18) tert-Butanol	9.26	59	24970m	0.323	ng		
19) Methylene Chloride	9.35	84	1764	0.055	ng		88
20) Allyl Chloride	9.54	41	27325	0.644	ng		99
21) Trichlorotrifluoroethane	9.81	151	8558	0.285	ng		90
22) Carbon Disulfide	9.76	76	138895	1.151	ng		100
23) trans-1,2-Dichloroethene	10.73	61	8161	~~0.173 ng~~		NR#	24
24) 1,1-Dichloroethane	11.14	63	182	N.D. ✓			
25) Methyl tert-Butyl Ether	11.16	73	4141	N.D. ✓			
26) Vinyl Acetate	11.31	86	6701	~~1.274 ng~~ 1.1		#	1
27) 2-Butanone	11.68	72	87281	4.201	ng	#	85
28) cis-1,2-Dichloroethene	12.34	61	576	N.D. ✓			
29) Diisopropyl Ether	12.79	87	12627	~~0.496 ng~~		NR#	1
30) Ethyl Acetate	12.69	61	2631	0.235	ng		84
31) n-Hexane	12.71	57	3208	0.057	ng		83

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Quantitation Report (QT Reviewed)

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ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.79	83	121664	2.523 ng		99
34) Tetrahydrofuran	13.37	72	10578	0.533 ng	#	89
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.74	62	398	N.D. ✓		
38) 1,1,1-Trichloroethane	14.30	97	1694	N.D. ✓		
39) Isopropyl Acetate	14.92	61	1014	0.052 ng	#	1
40) 1-Butanol	14.86	56	314396	9.969 ng		88
41) Benzene	14.98	78	230788	1.921 ng		94
42) Carbon Tetrachloride	15.20	117	26350	0.570 ng		96
43) Cyclohexane	15.36	84	39253	0.840 ng	#	1
44) tert-Amyl Methyl Ether	15.82	73	1139	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	3982	0.124 ng		98
46) Bromodichloromethane	16.46	83	210	N.D. ✓		
47) Trichloroethene	16.53	130	1725	N.D. ✓		
48) 1,4-Dioxane	16.49	88	2851	0.126 ng	#	67
49) Isooctane	16.61	57	5348	N.D.		
50) Methyl Methacrylate	16.79	100	51	N.D. ✓		
51) n-Heptane	16.98	71	2006	~~0.063 ng~~	#	75
52) cis-1,3-Dichloropropene	17.81	75	749	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	5363m	0.168 ng		
54) trans-1,3-Dichloropropene	18.45	75	485	N.D. ✓		
55) 1,1,2-Trichloroethane	18.93	97	208773	~~7.033 ng~~ UR	#	9
58) Toluene	19.06	91	84562	0.648 ng		97
59) 2-Hexanone	19.38	43	16540	0.184 ng		77
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	19.75	107	72	N.D. ✓		
62) Butyl Acetate	20.19	43	8165	0.089 ng		74
63) n-Octane	20.36	57	544	N.D. ✓		
64) Tetrachloroethene	20.54	166	11934	0.309 ng		98
65) Chlorobenzene	21.42	112	1344	N.D. ✓		
66) Ethylbenzene	21.89	91	14997	0.100 ng		93
67) m- & p-Xylene	22.09	91	45609	0.456 ng		94
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	5623	~~0.063 ng~~	#	50
70) o-Xylene	22.71	91	38743	0.359 ng		99
71) n-Nonane	22.98	43	13229	0.173 ng	#	76
72) 1,1,2,2-Tetrachloroethane	22.67	83	292	N.D. ✓		
74) Cumene	23.46	105	3169	N.D. ✓		
75) alpha-Pinene	23.96	93	5324	0.072 ng	#	46
76) n-Propylbenzene	24.10	91	12261	0.067 ng	#	1
77) 3-Ethyltoluene	24.23	105	24639	0.161 ng		95
78) 4-Ethyltoluene	24.28	105	26864	0.188 ng		64
79) 1,3,5-Trimethylbenzene	24.37	105	24379m	0.189 ng		

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JDM 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.55	118	3069	N.D. ✓		
81) 2-Ethyltoluene	24.61	105	17002	0.110 ng		97
82) 1,2,4-Trimethylbenzene	24.88	105	30396	0.232 ng		90
83) n-Decane	24.98	57	85576	1.185 ng		77
84) Benzyl Chloride	25.03	91	2556	N.D. ✓		
85) 1,3-Dichlorobenzene	25.15	146	3849571	~~46.906 ng~~ NR		100
86) 1,4-Dichlorobenzene	25.15	146	3849571	48.385 ng		100
87) sec-Butylbenzene	25.21	105	4102	N.D. ✓		
88) p-Isopropyltoluene	25.40	119	15362	0.111 ng	#	73
89) 1,2,3-Trimethylbenzene	25.40	105	23107	0.180 ng		93
90) 1,2-Dichlorobenzene	25.15	146	3849067	~~49.451 ng~~ NR		99
91) d-Limonene	25.57	68	70311	1.344 ng		92
92) 1,2-Dibromo-3-Chloropr...	26.14	157	54	N.D. ✓		
93) n-Undecane	26.50	57	331558	4.386 ng		75
94) 1,2,4-Trichlorobenzene	27.63	180	1186	N.D. ✓		
95) Naphthalene	27.77	128	195854	1.131 ng		98
96) n-Dodecane	27.73	57	427616	5.688 ng		83
97) Hexachloro-1,3-butadiene	28.19	225	116	N.D. ✓		

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

Quantitation Report (Qedit)

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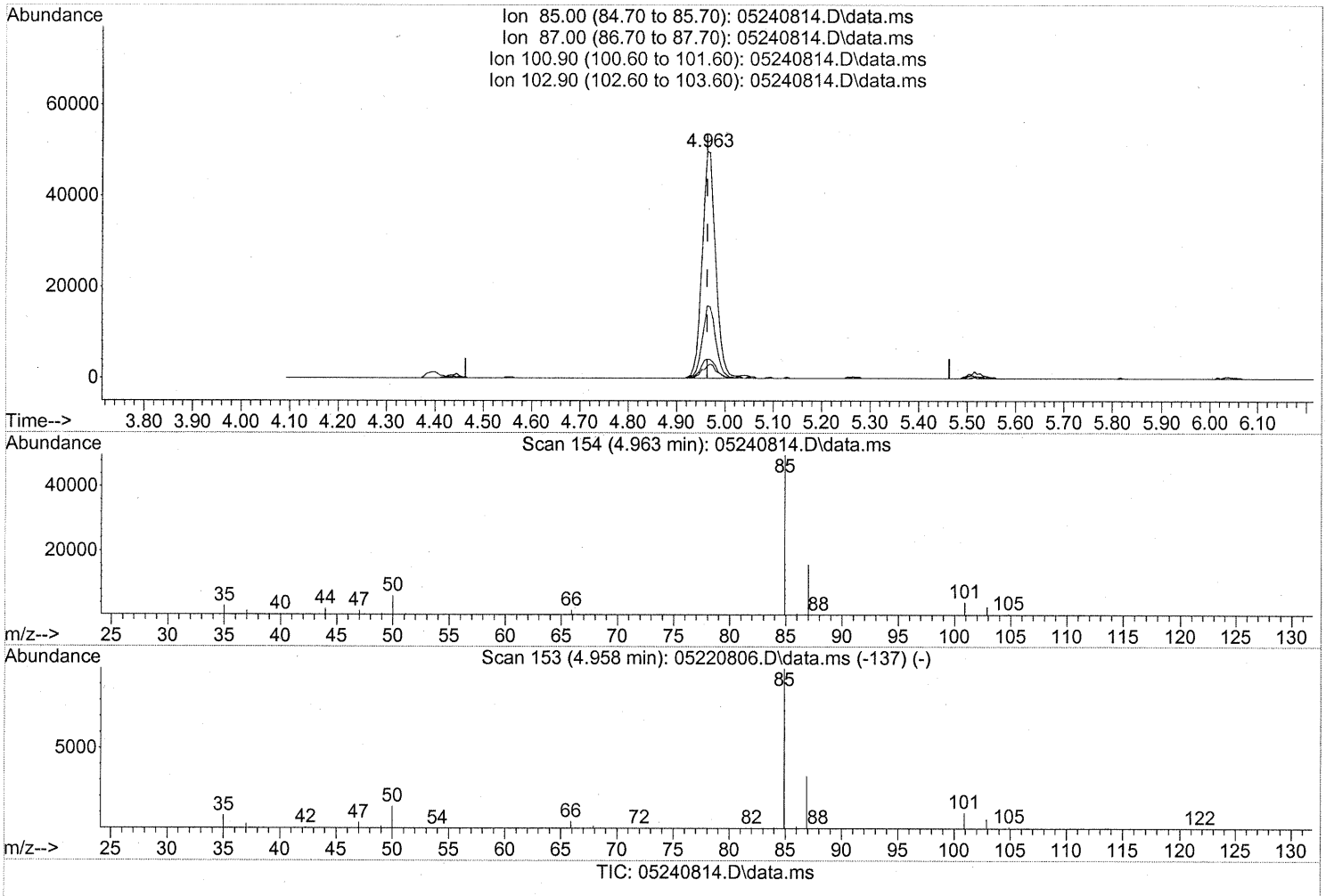
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.26ng

response 96769

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.72
100.90	9.30	9.23
102.90	6.00	6.22

Quantitation Report (Qedit)

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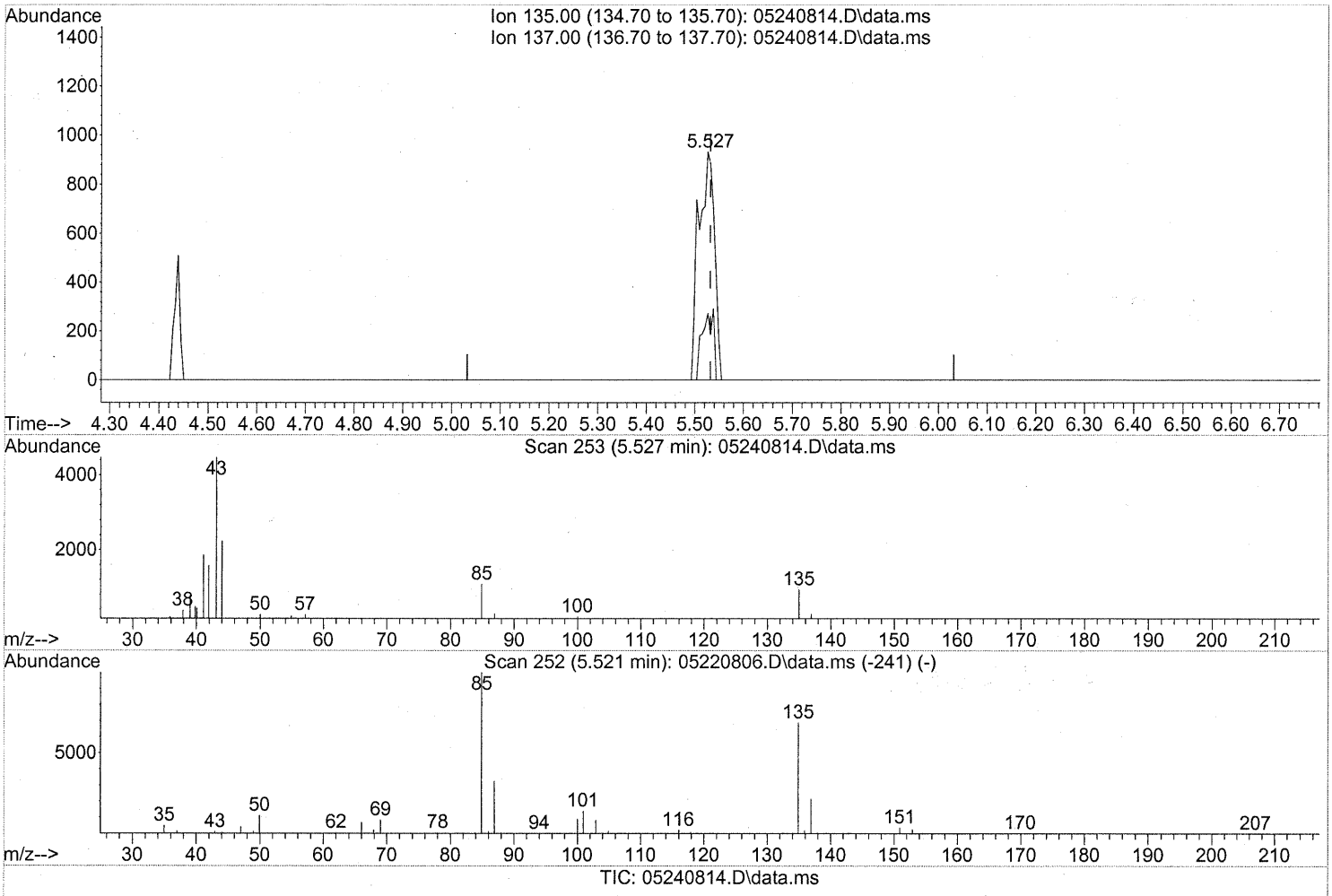


TIC: 05240814.D\data.ms

(5) Freon 114 (T)

5.527min (-0.006) 0.06ng

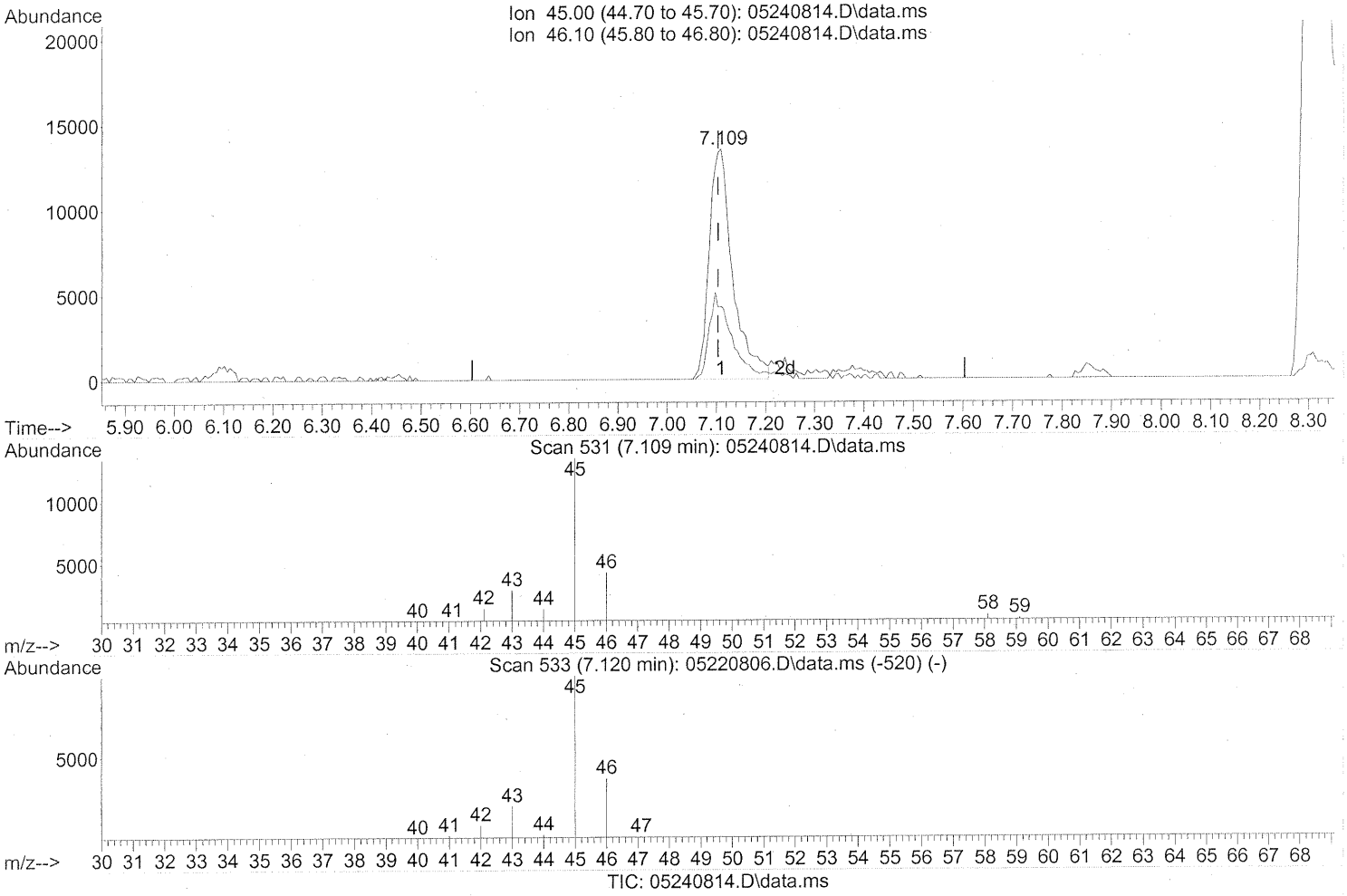
response 2085

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	21.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801422-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:06:52 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(10) Ethanol (T)

7.109min (+0.006) 1.61ng

response 44713

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.50
0.00	0.00	0.00
0.00	0.00	0.00

tailing

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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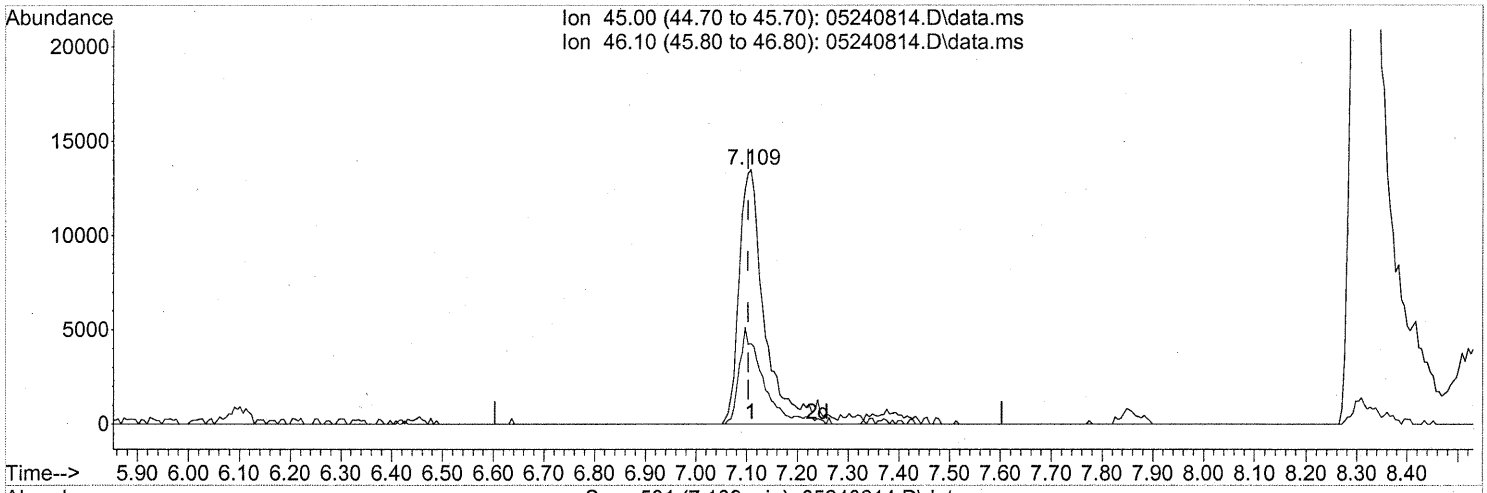

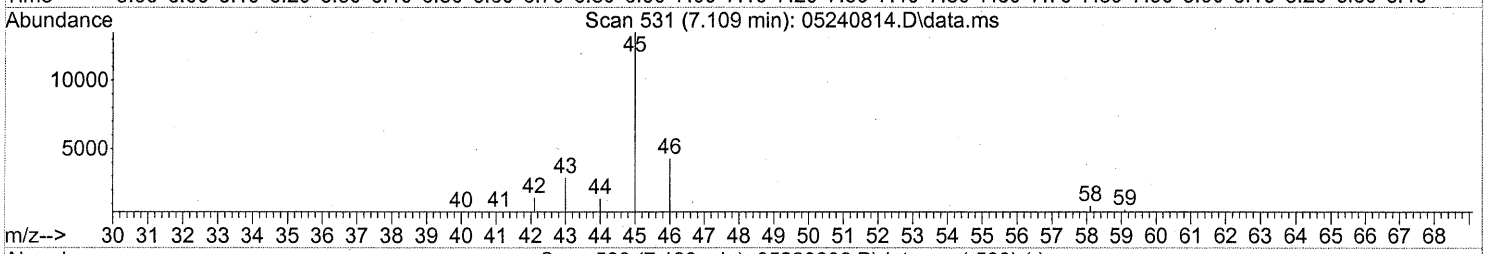

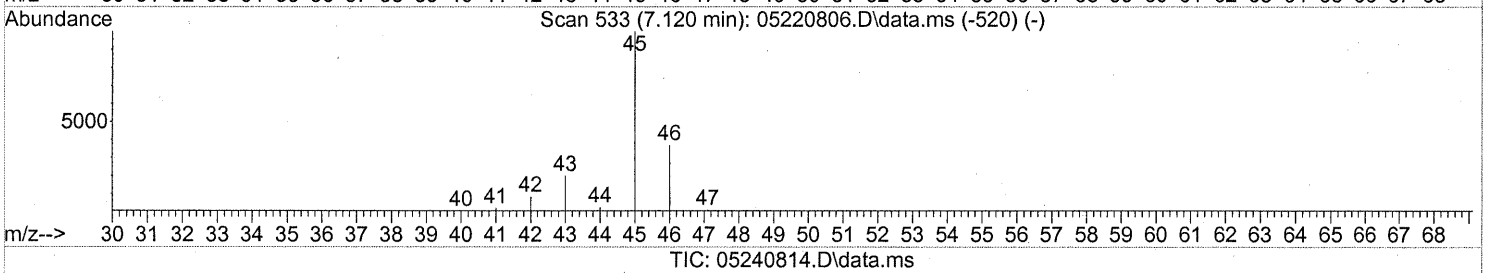

TIC: 05240814.D\data.ms

(10) Ethanol (T)

7.109min (+0.006) 1.87ng m

response 52118

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.17
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing

DM 5/29/08

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Quantitation Report (Qedit)

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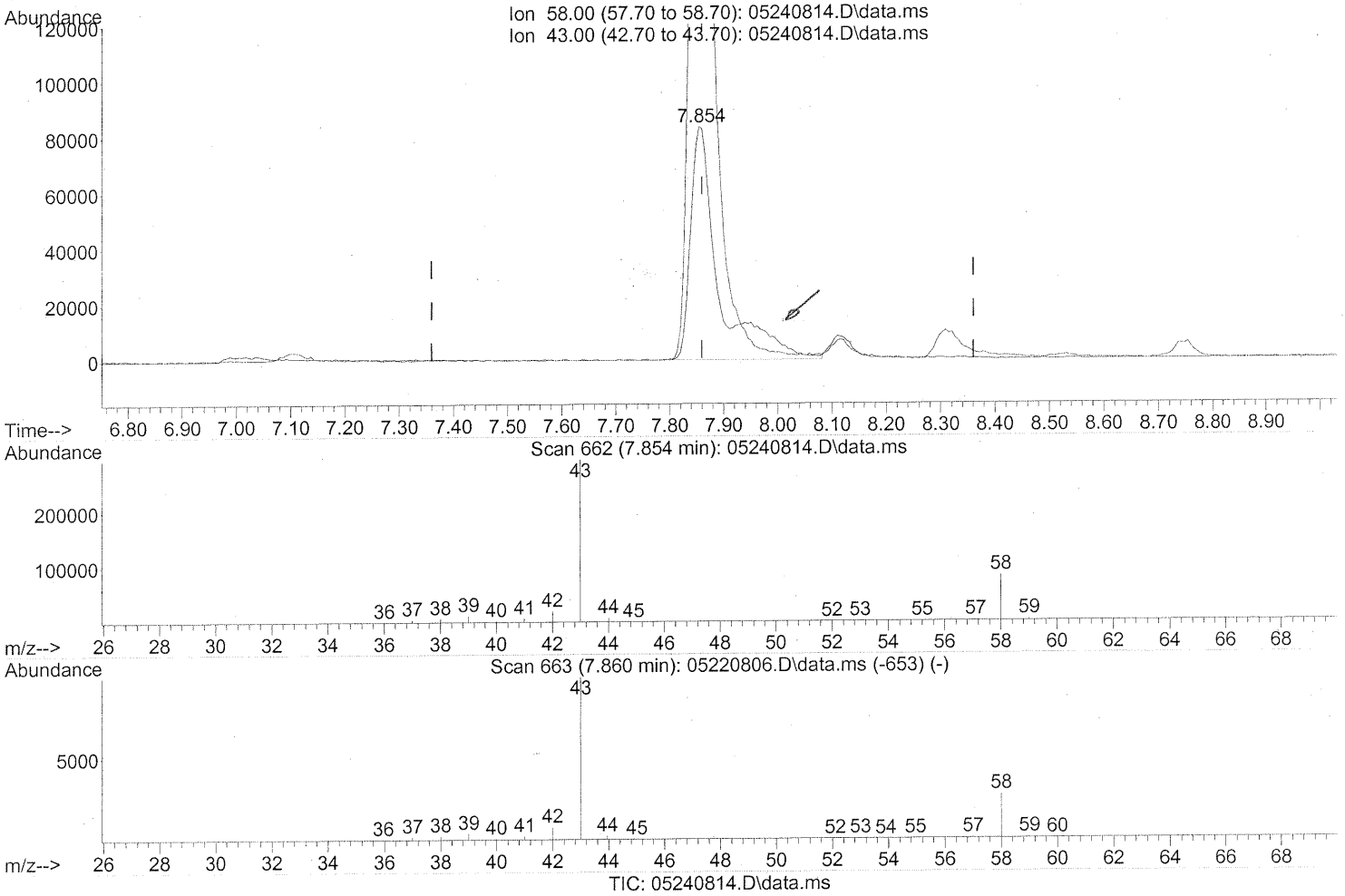
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(13) Acetone (T)

7.854min (-0.006) 10.60ng

response 301823

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	283.75
0.00	0.00	0.00
0.00	0.00	0.00

interf. shoulder

WA 5/30/08

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Quantitation Report (Qedit)

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Operator : WA
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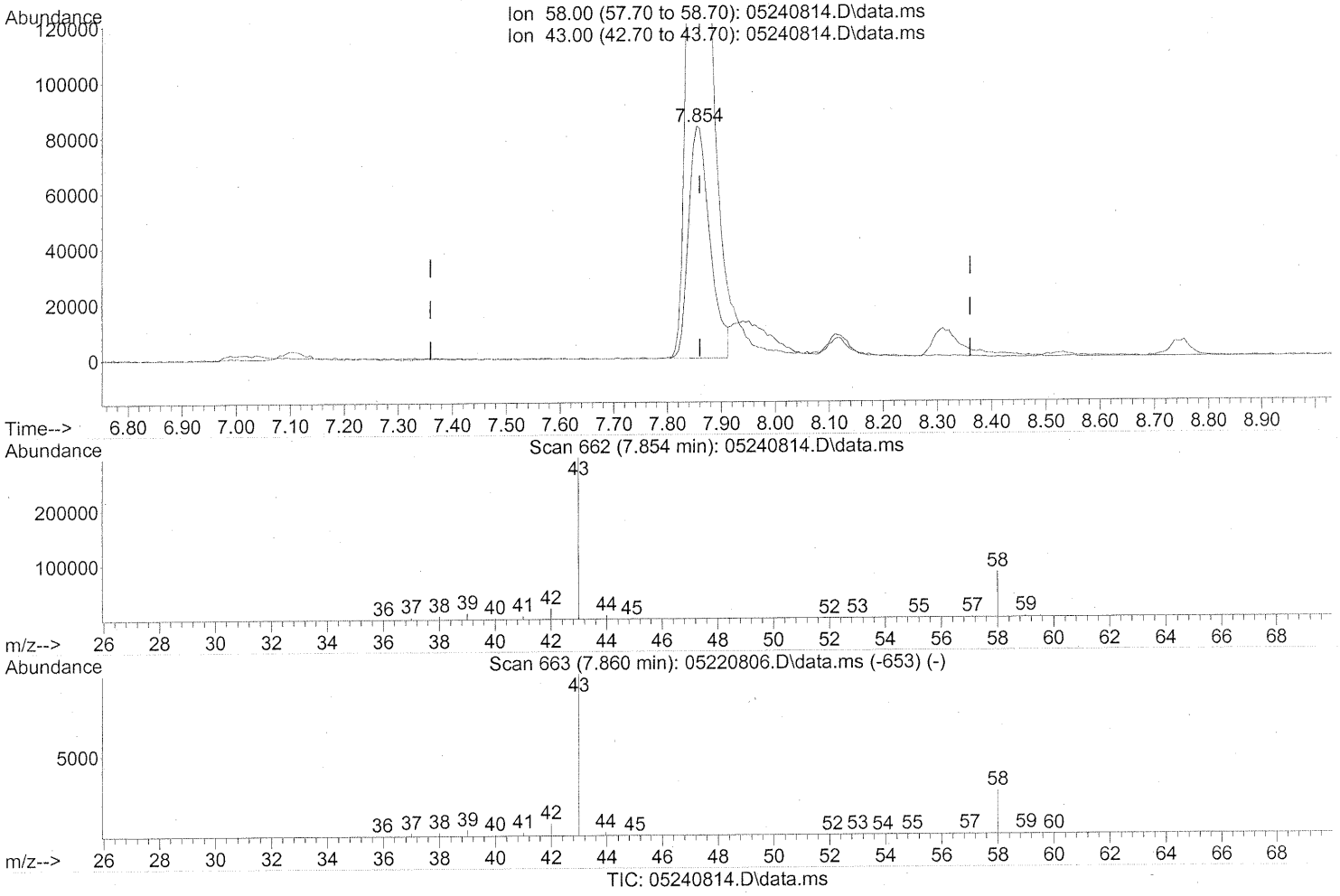
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(13) Acetone (T)

7.854min (-0.006) 8.11ng m

response 230920

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	370.88#
0.00	0.00	0.00
0.00	0.00	0.00

p/o shoulder

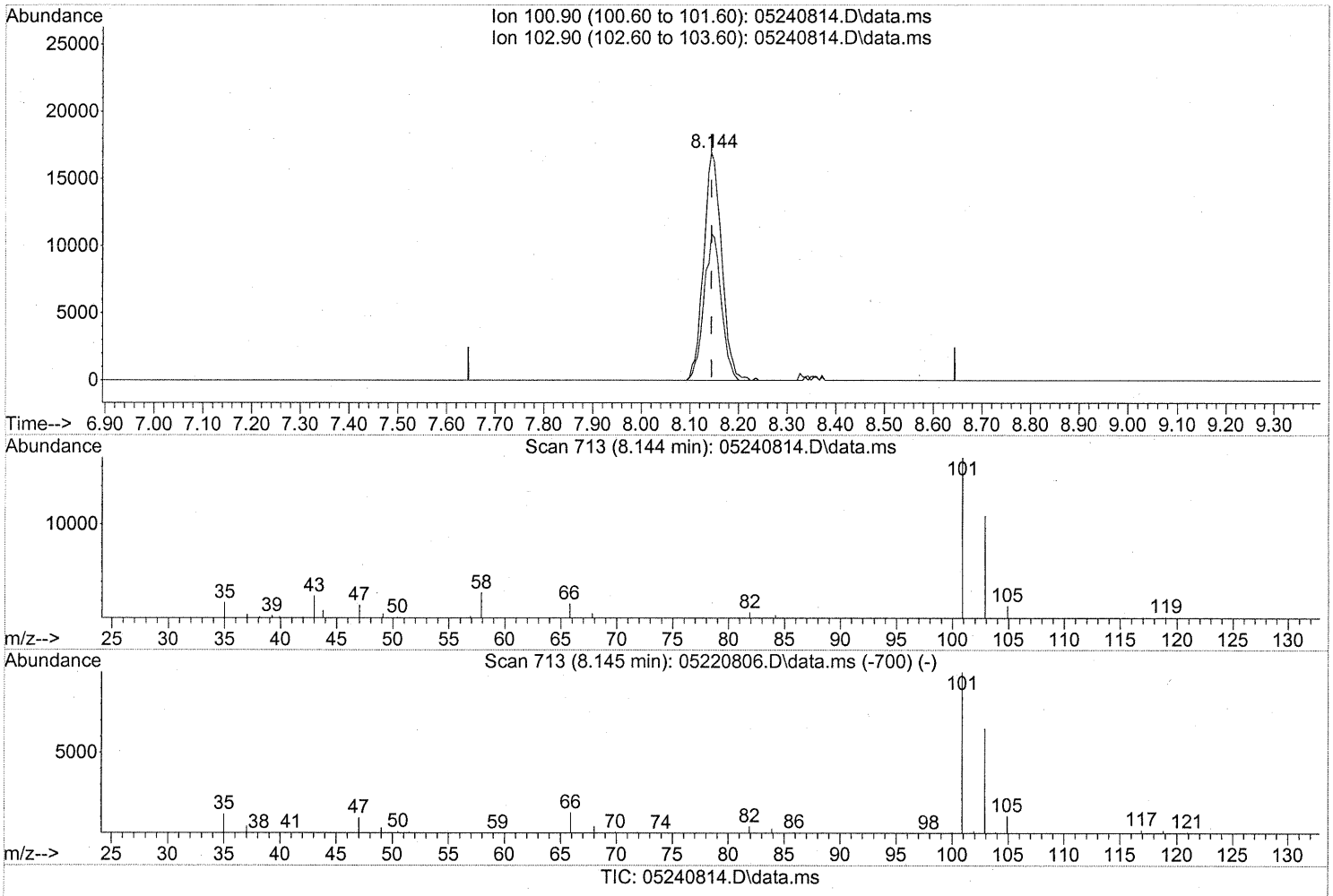
pDA 5/29/08

WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.66ng

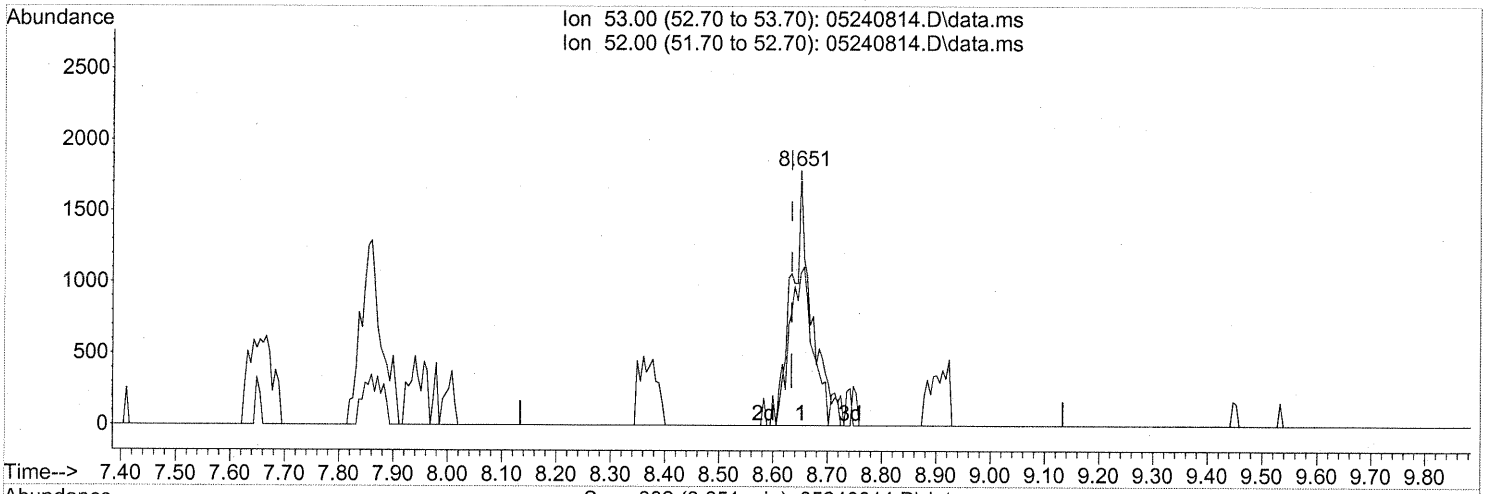
response 43532

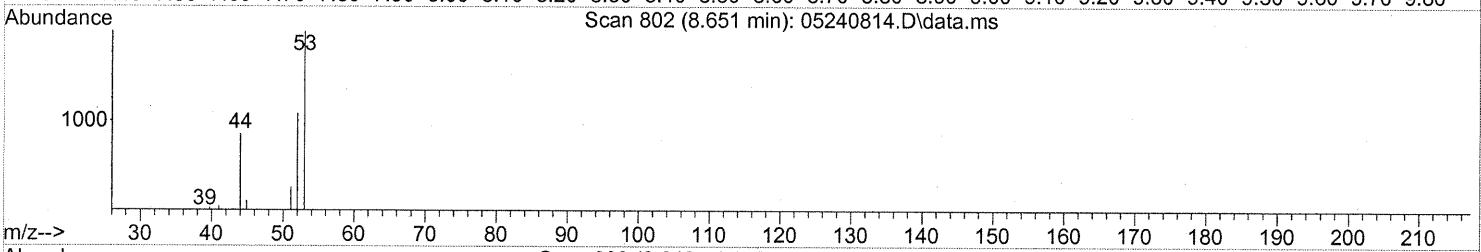
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	61.77
0.00	0.00	0.00
0.00	0.00	0.00

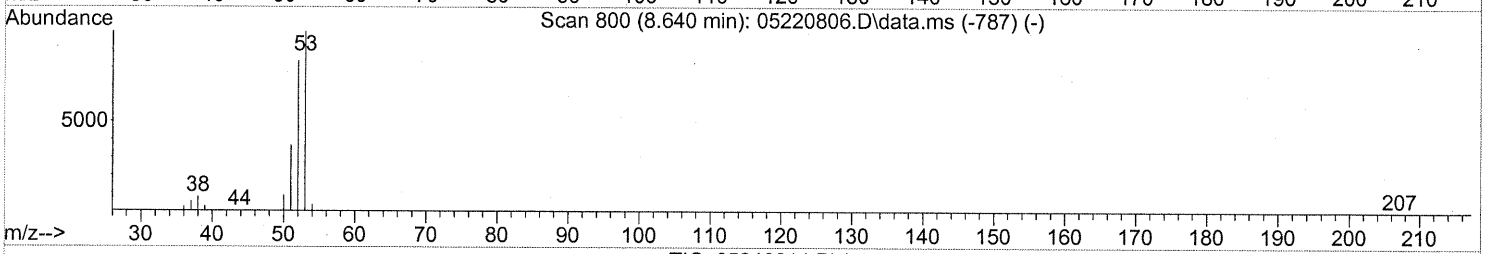
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(16) Acrylonitrile (T)

8.651min (+0.017) 0.10ng

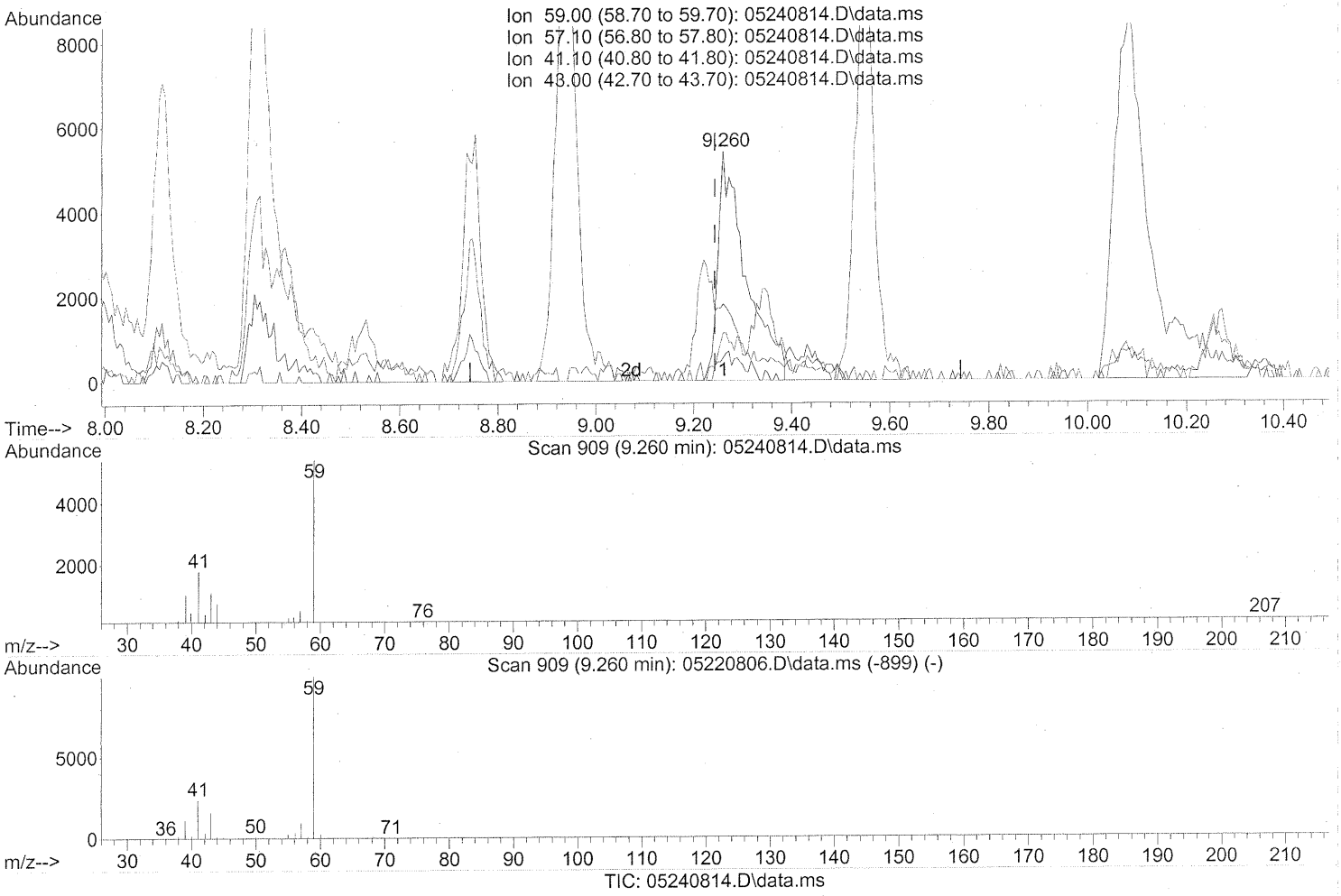
response 4532

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	74.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801422-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:06:52 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.260min (+0.017) 0.28ng

response 21549

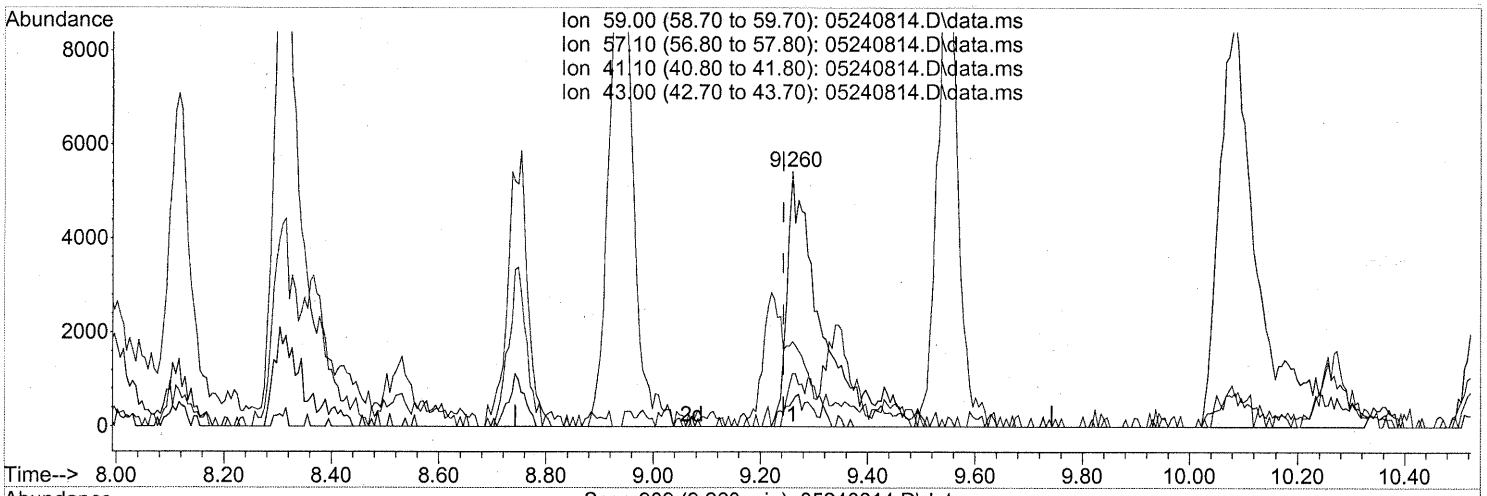
split peaks

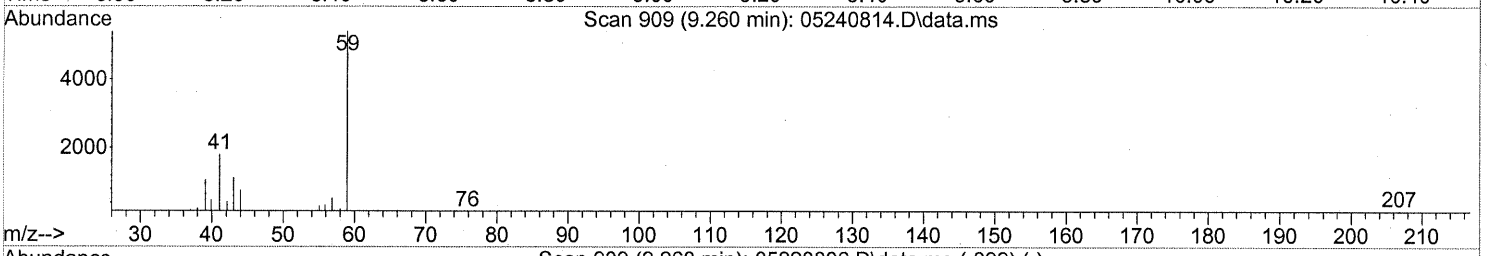
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.93
41.10	20.10	0.00#
43.00	12.30	16.40

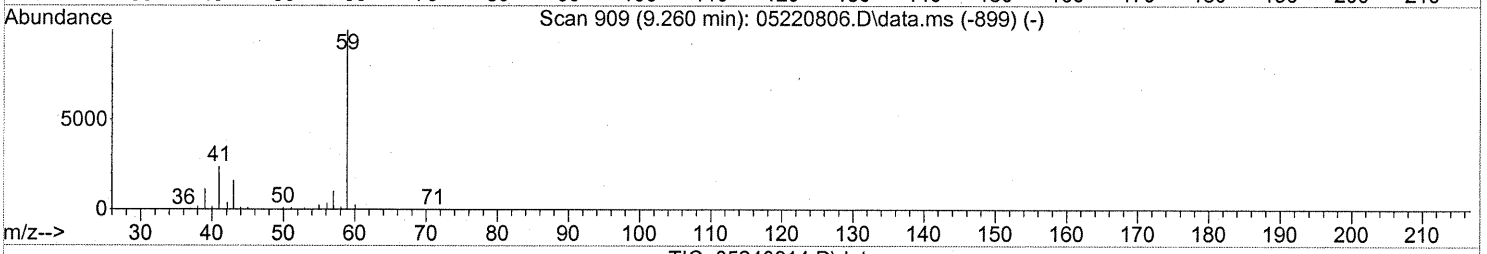
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(18) tert-Butanol (T)

9.260min (+0.017) 0.32ng m

response 24970

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.71
41.10	20.10	0.00#
43.00	12.30	14.15

int. whole peaks

JDA 5/29/08

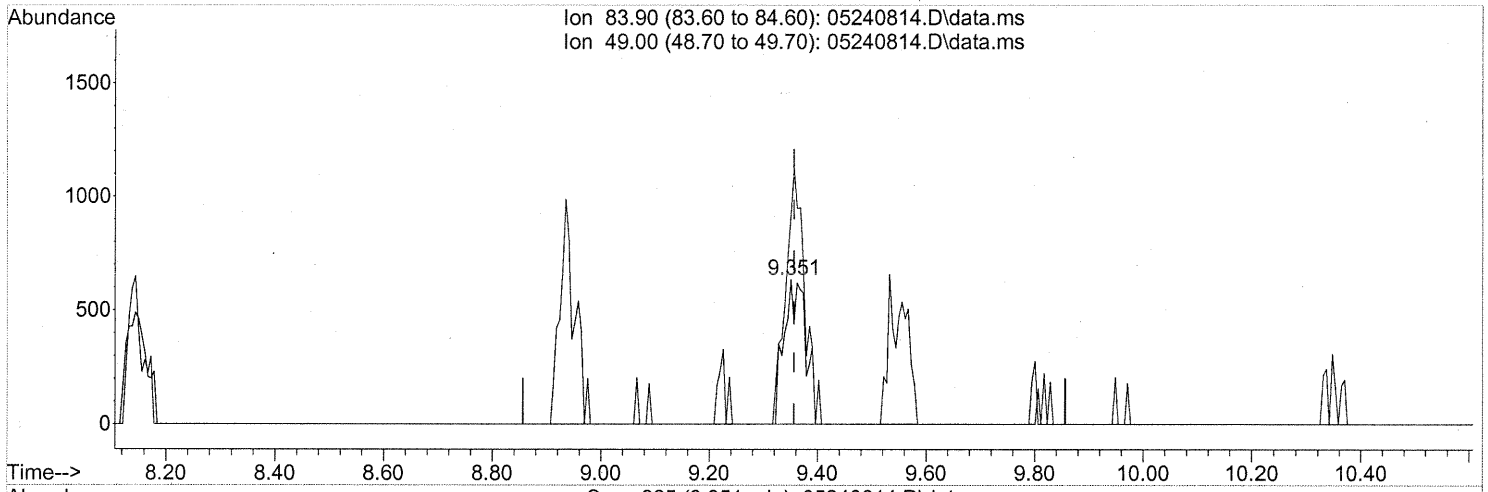
WA 5/30/08

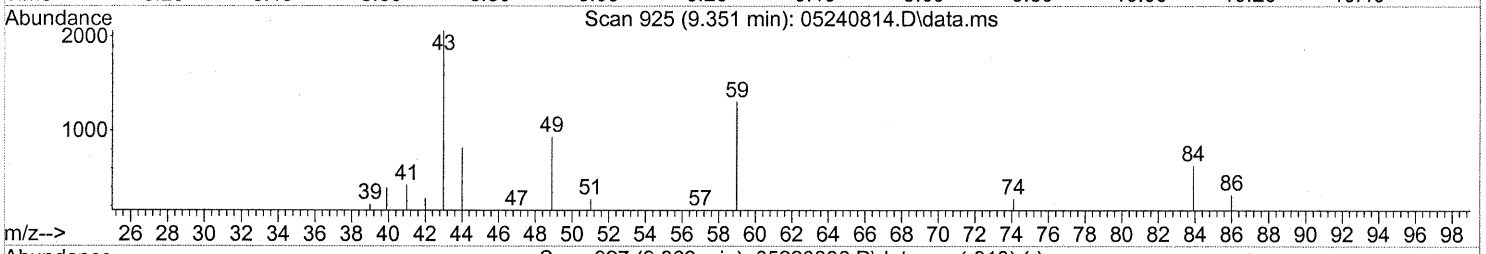
290

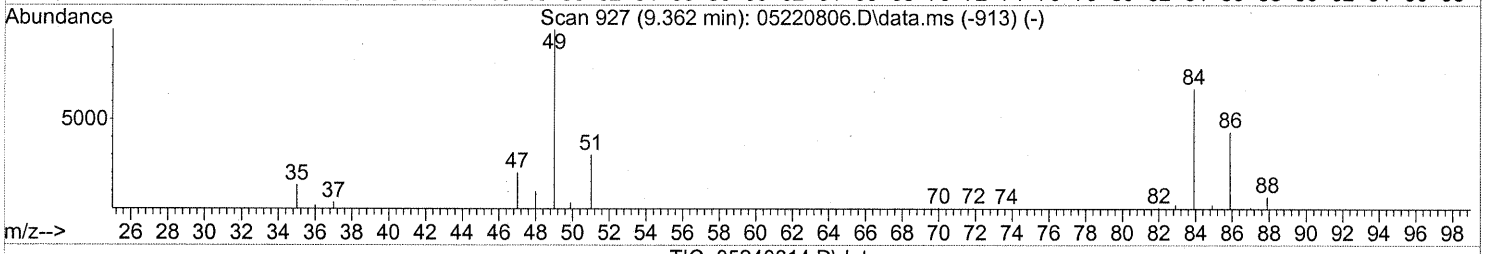
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(19) Methylene Chloride (T)

9.351min (-0.006) 0.06ng

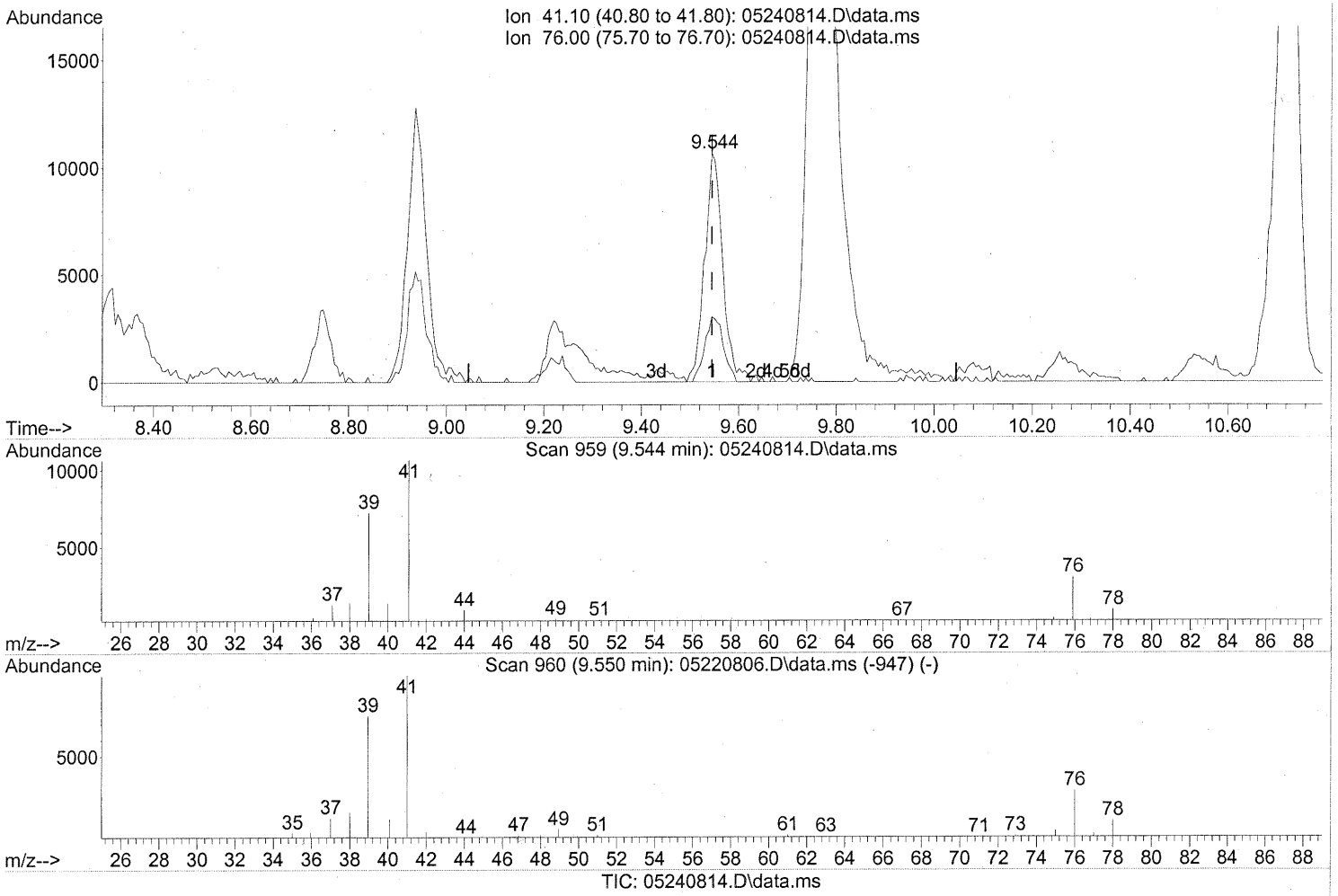
response 1764

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	155.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 4:00 pm
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(20) Allyl Chloride (T)

9.544min (-0.000) 0.64ng

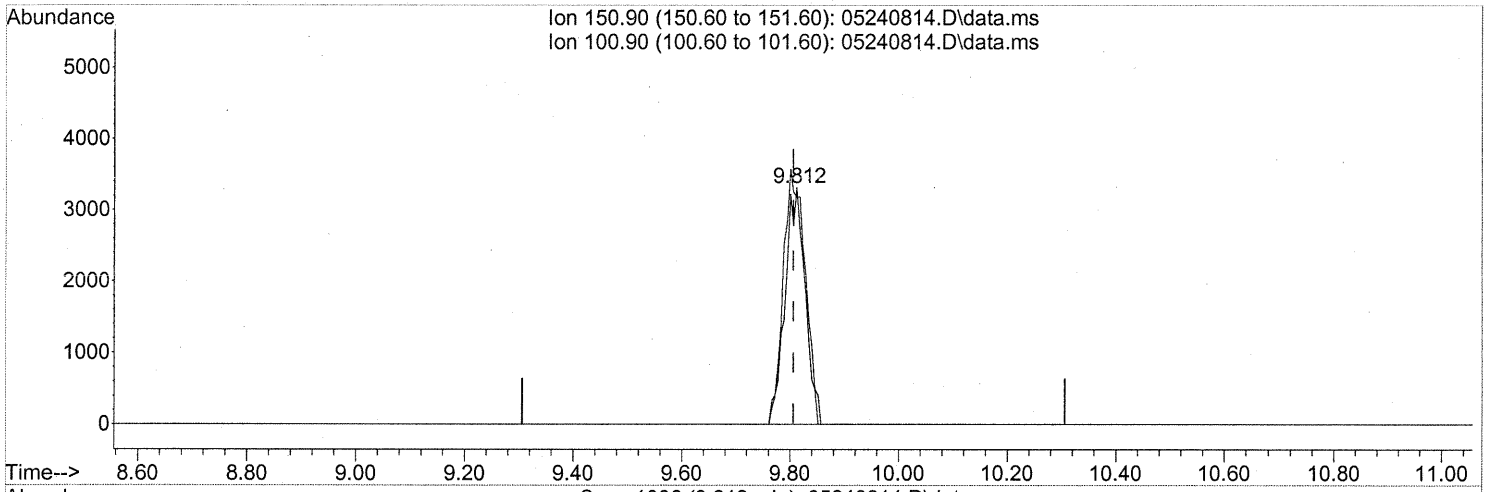
response 27325

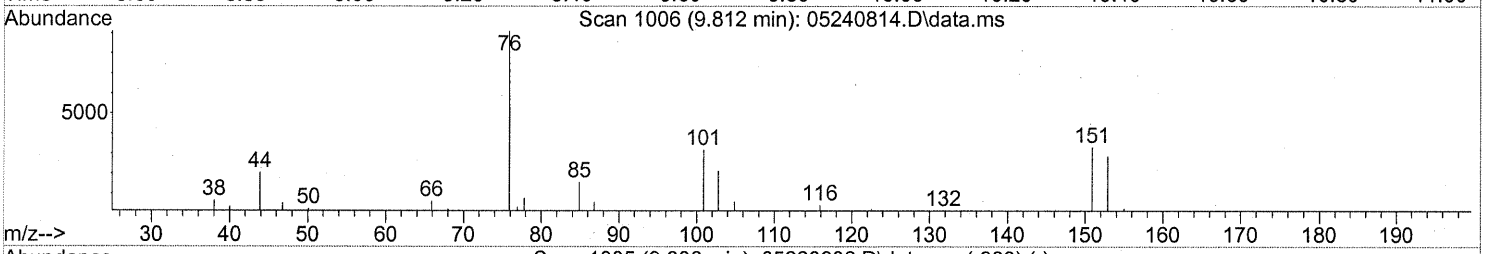
Ion	Exp%	Act%
41.10	100	100
76.00	30.20	29.39
0.00	0.00	0.00
0.00	0.00	0.00

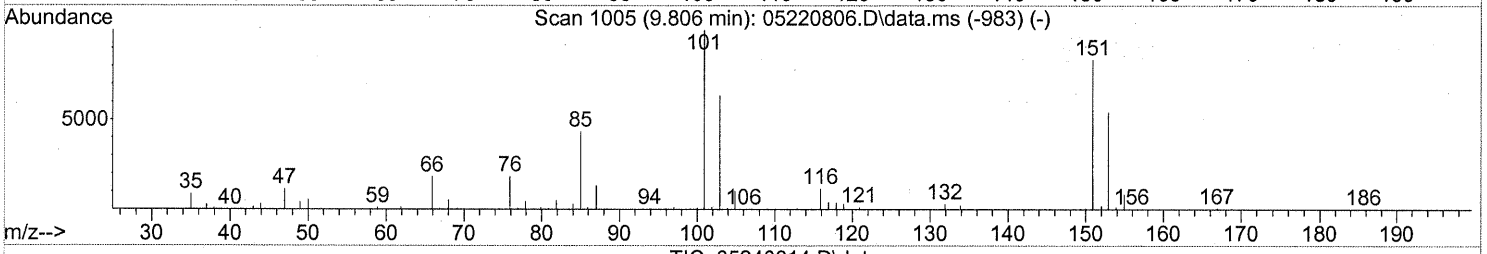
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.28ng

response 8558

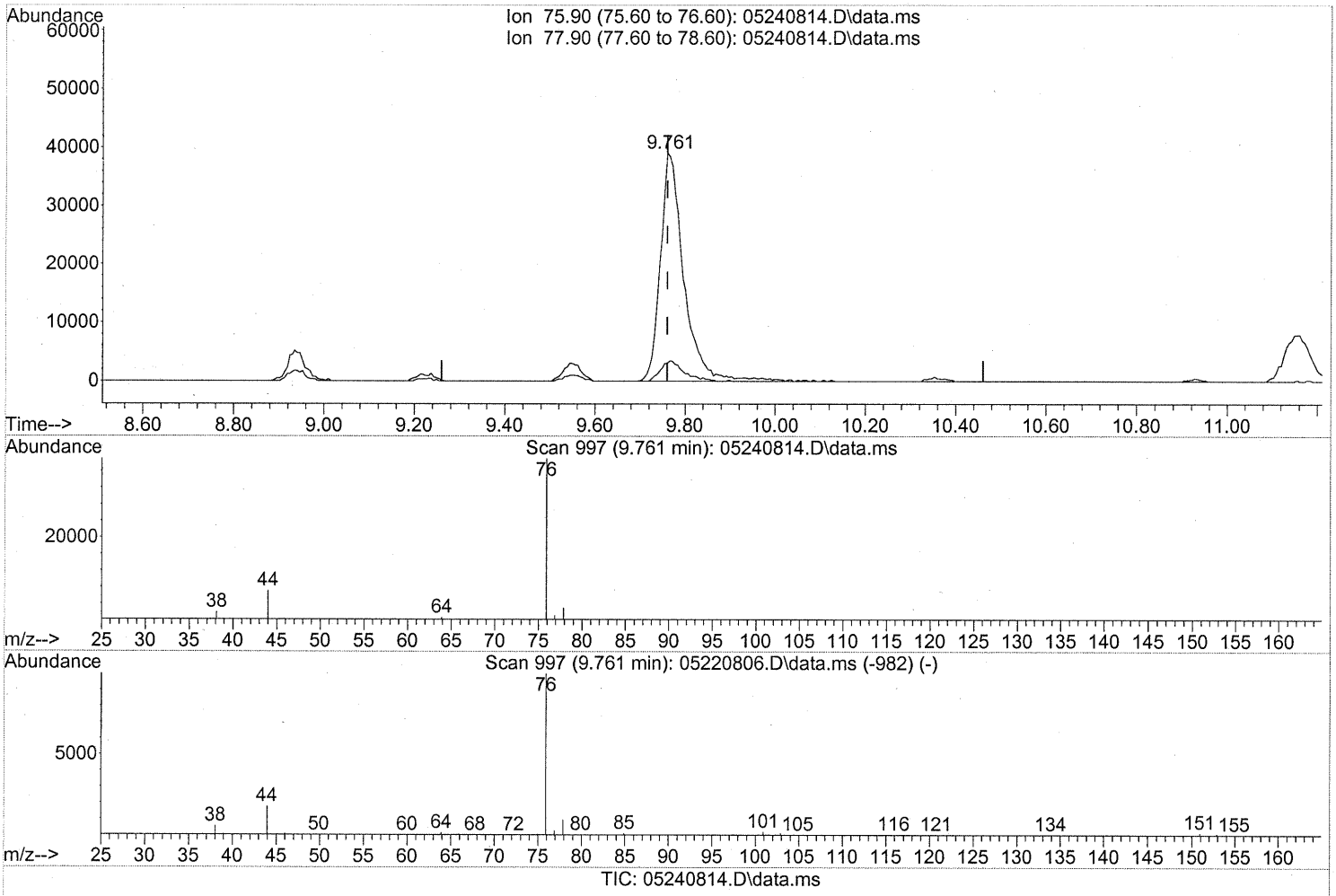
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.48
0.00	0.00	0.00
0.00	0.00	0.00

293

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(22) Carbon Disulfide (T)

9.761min (-0.000) 1.15ng

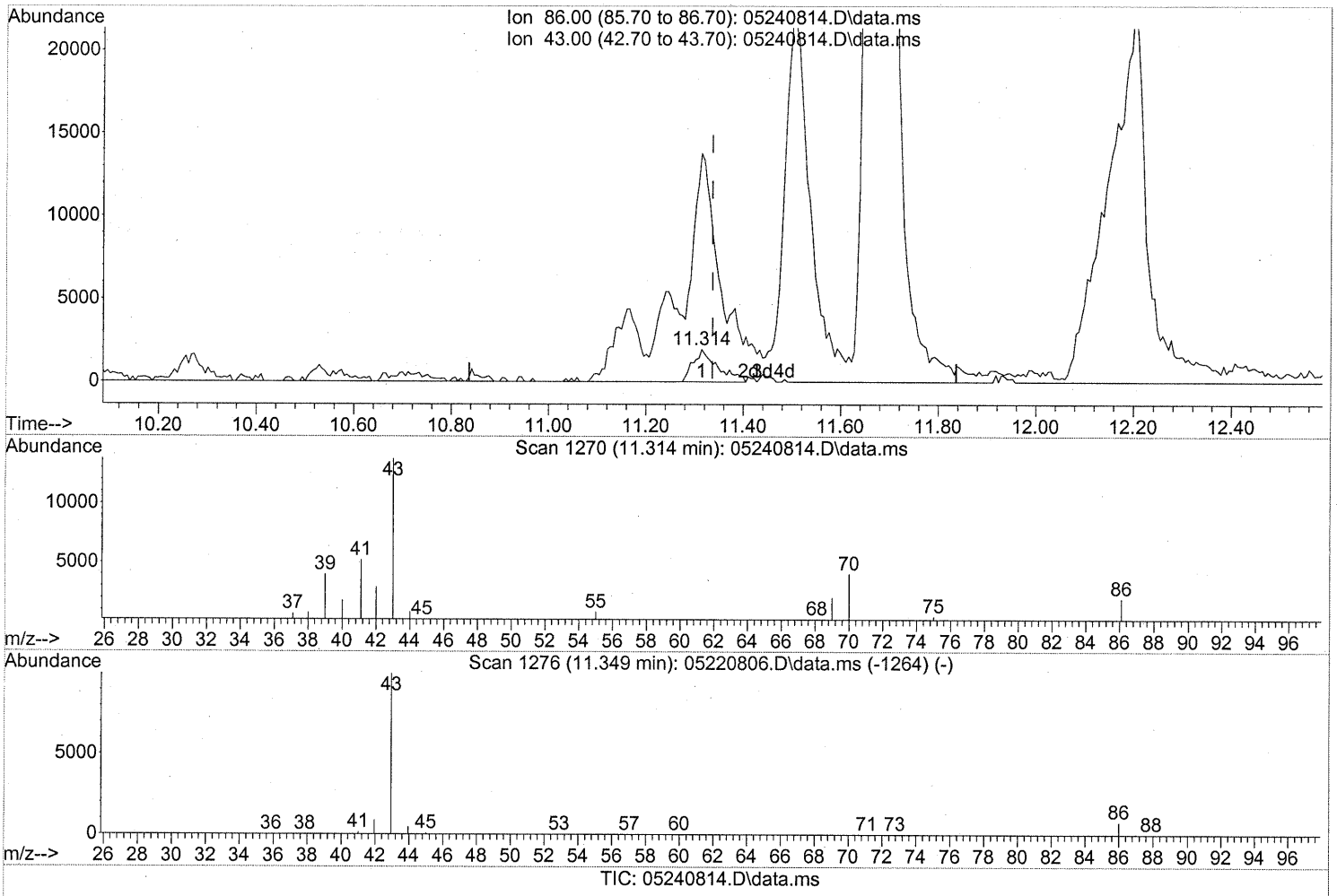
response 138895

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 1.27ng

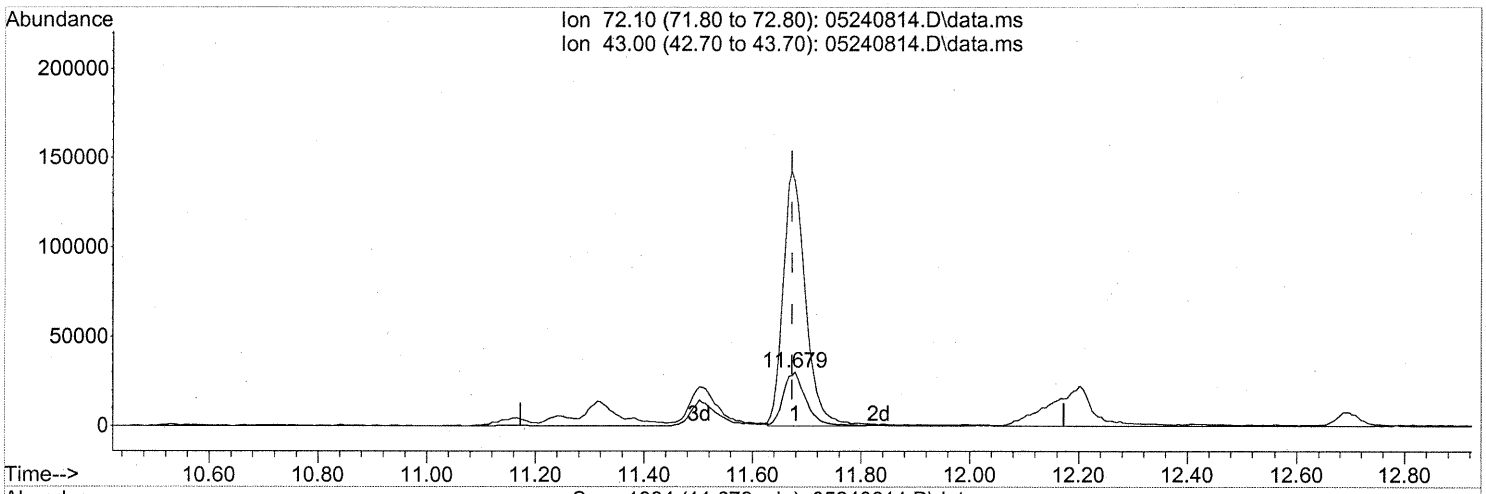
response 6701

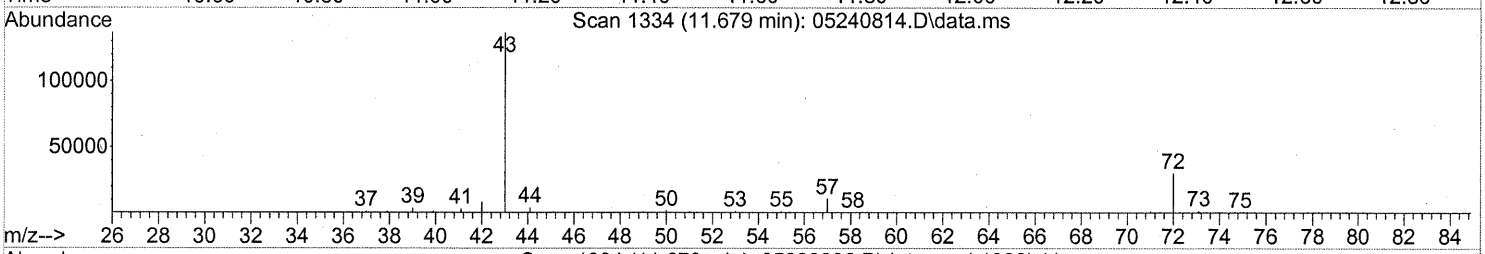
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	776.47#
0.00	0.00	0.00
0.00	0.00	0.00

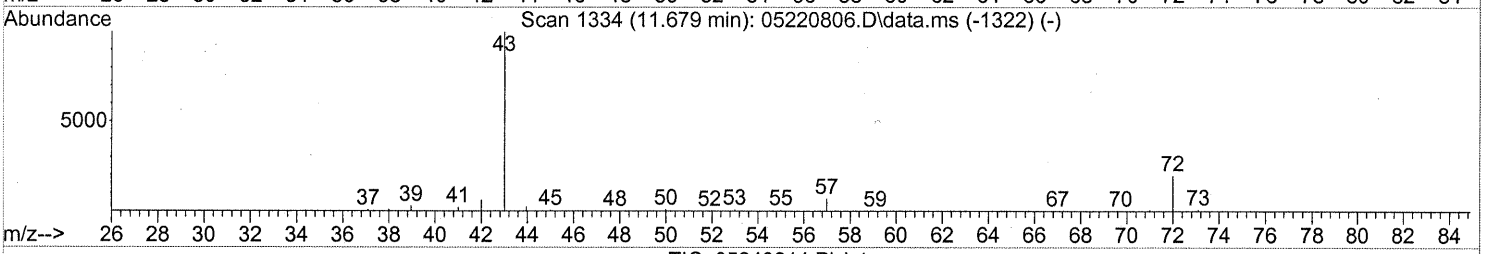
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 4.20ng

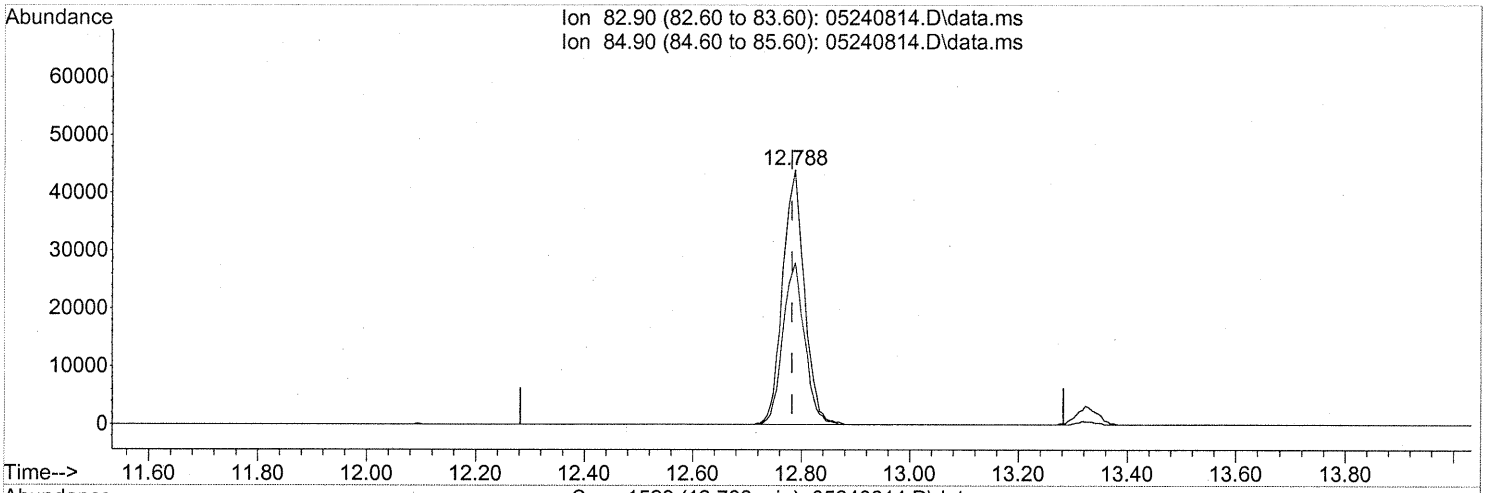
response 87281

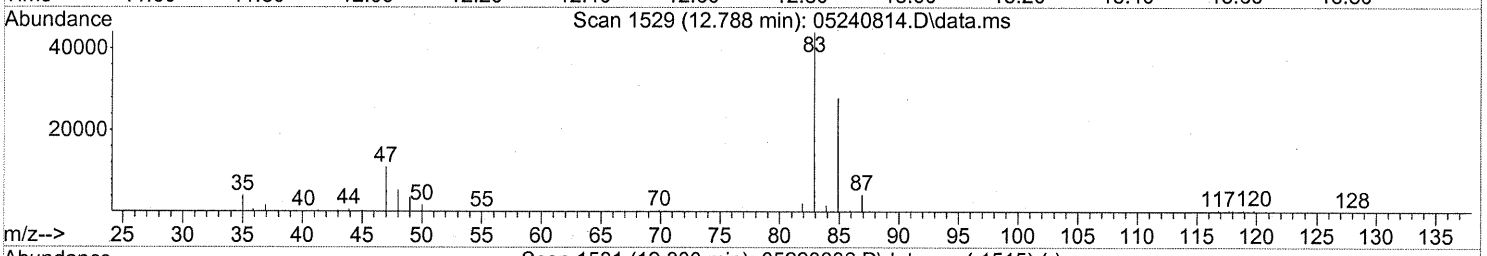
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	465.31#
0.00	0.00	0.00
0.00	0.00	0.00

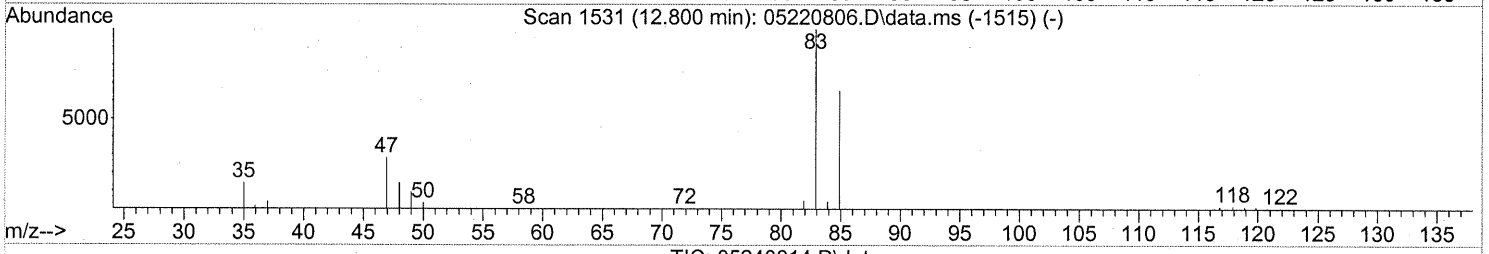
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(32) Chloroform (T)

12.788min (+0.006) 2.52ng

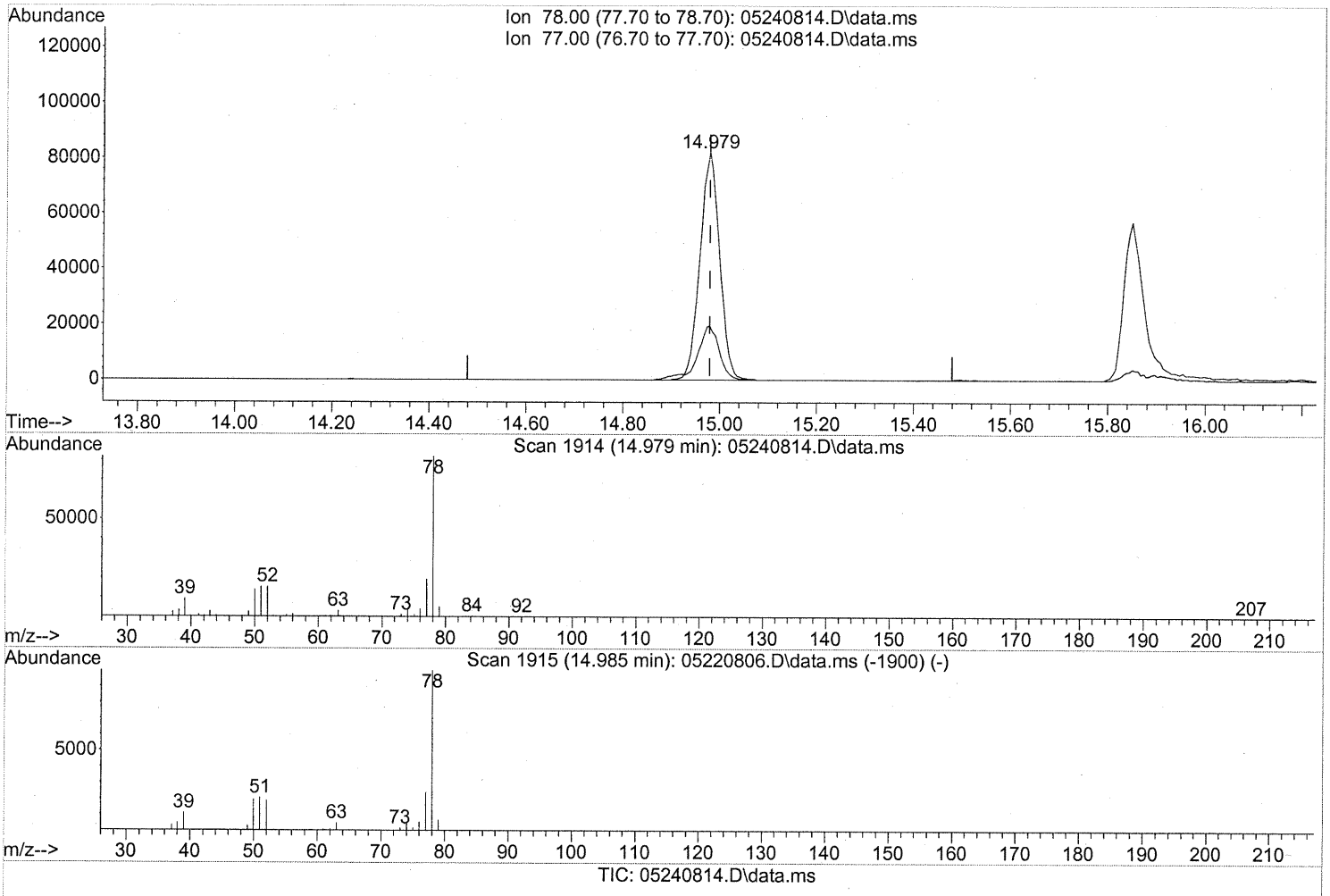
response 121664

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 1.92ng

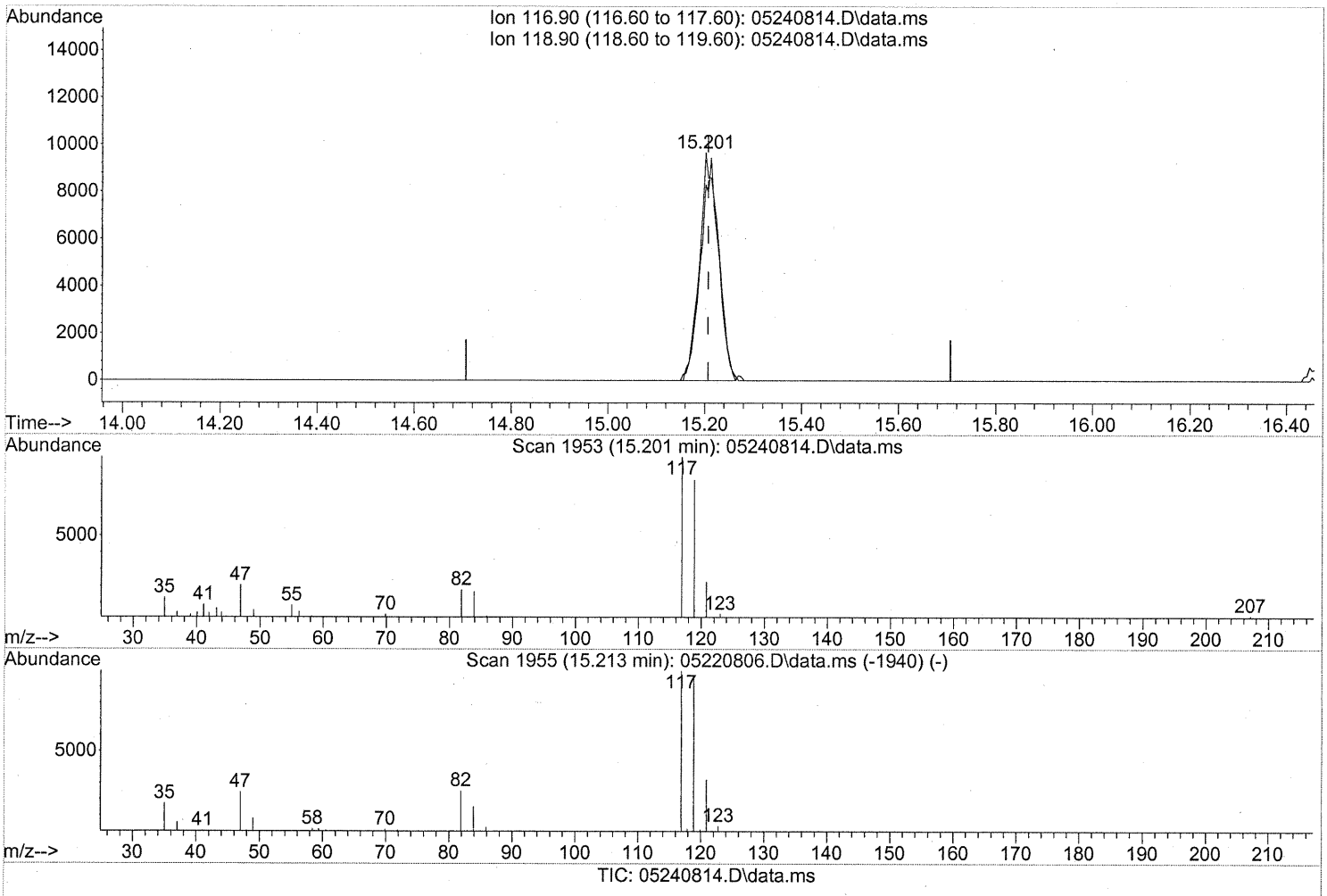
response 230788

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	26.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(42) Carbon Tetrachloride (T)

15.201min (-0.006) 0.57ng

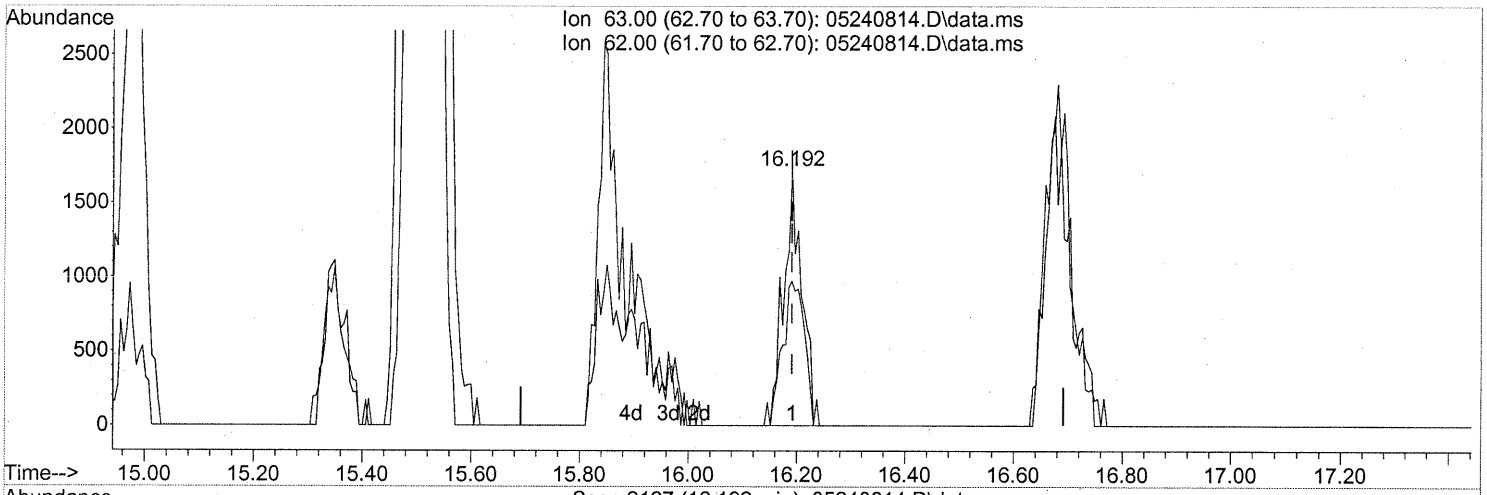
response 26350

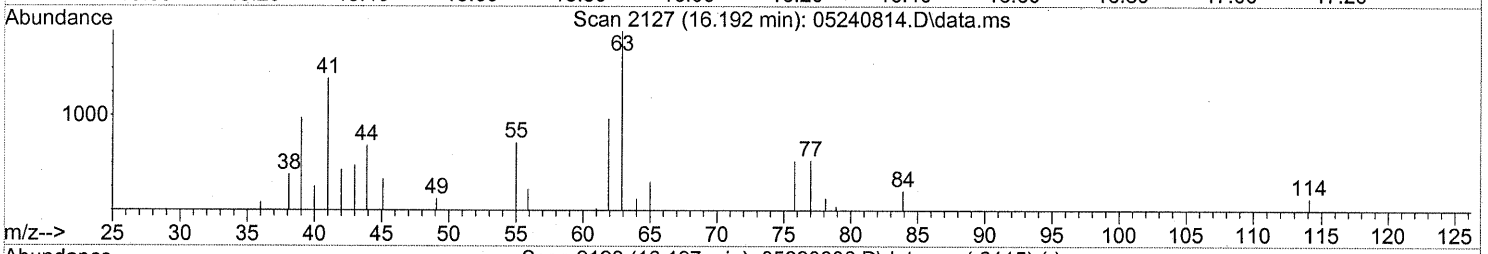
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	92.58
0.00	0.00	0.00
0.00	0.00	0.00

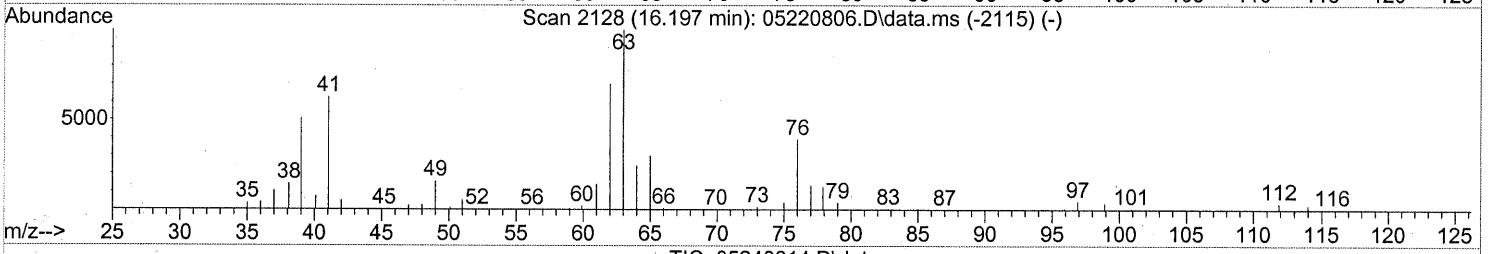
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(45) 1,2-Dichloropropane (T)

16.192min (-0.000) 0.12ng

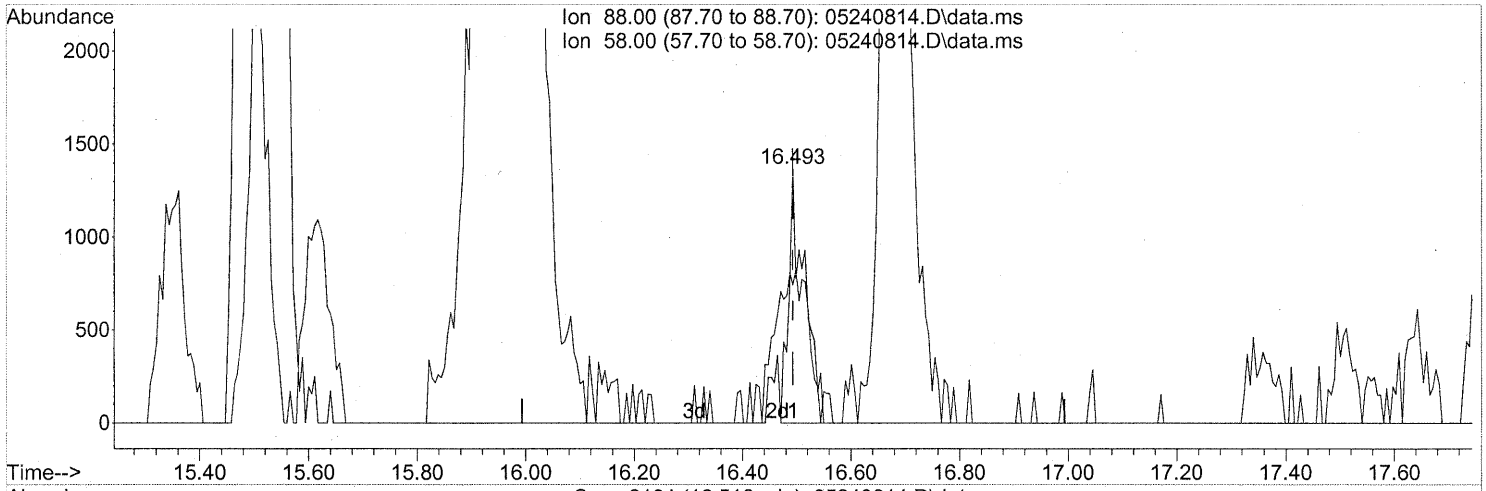
response 3982

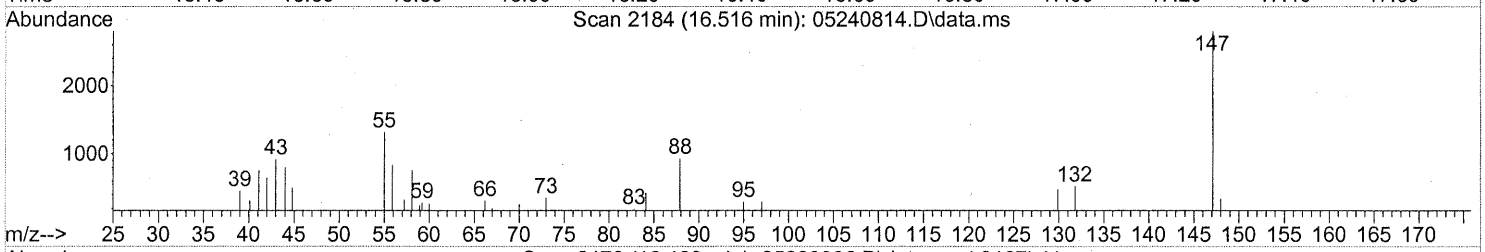
Ion	Exp%	Act%
63.00	100	100
62.00	71.30	69.29
0.00	0.00	0.00
0.00	0.00	0.00

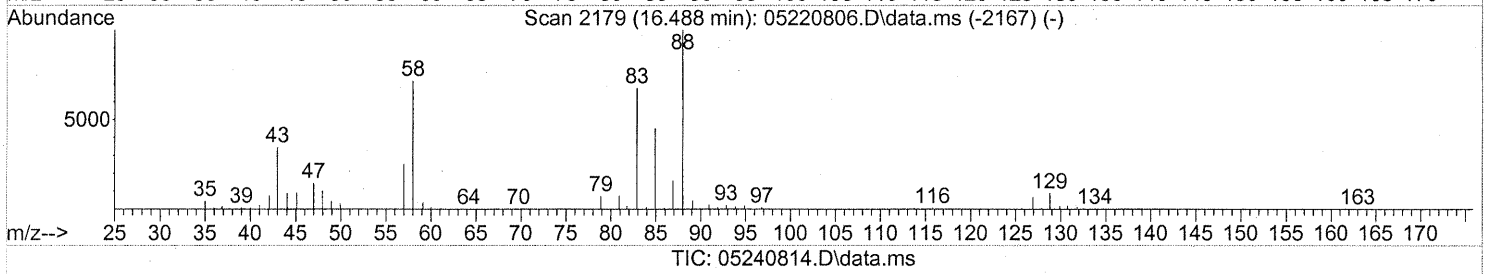
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(48) 1,4-Dioxane (T)

16.493min (-0.000) 0.13ng

response 2851

before

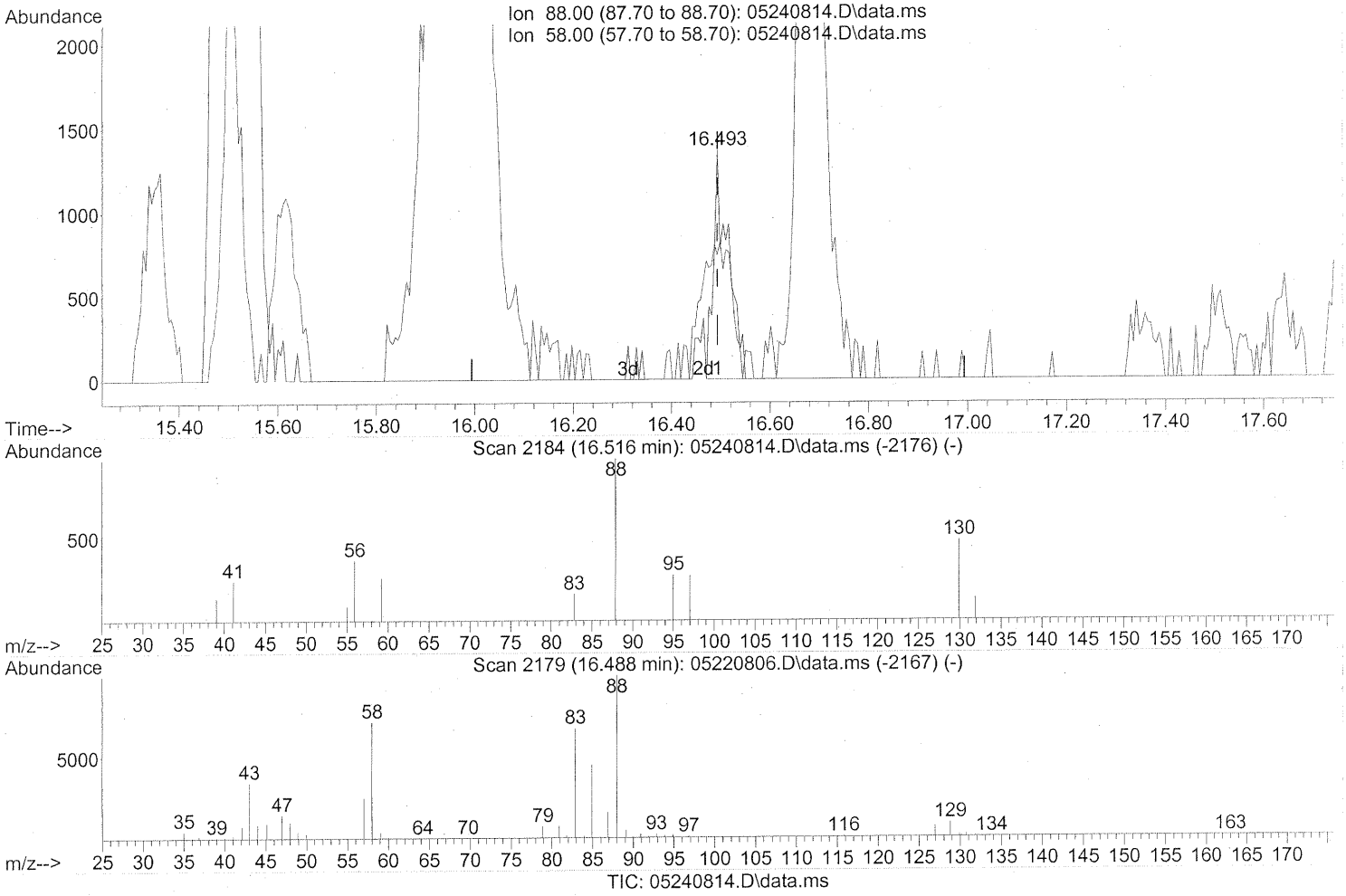
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	121.47#
0.00	0.00	0.00
0.00	0.00	0.00

301

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA 4
Sample : P0801422-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:06:52 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(48) 1,4-Dioxane (T)

16.493min (-0.000) 0.13ng

response 2851

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	121.47#
0.00	0.00	0.00
0.00	0.00	0.00

after subtr -

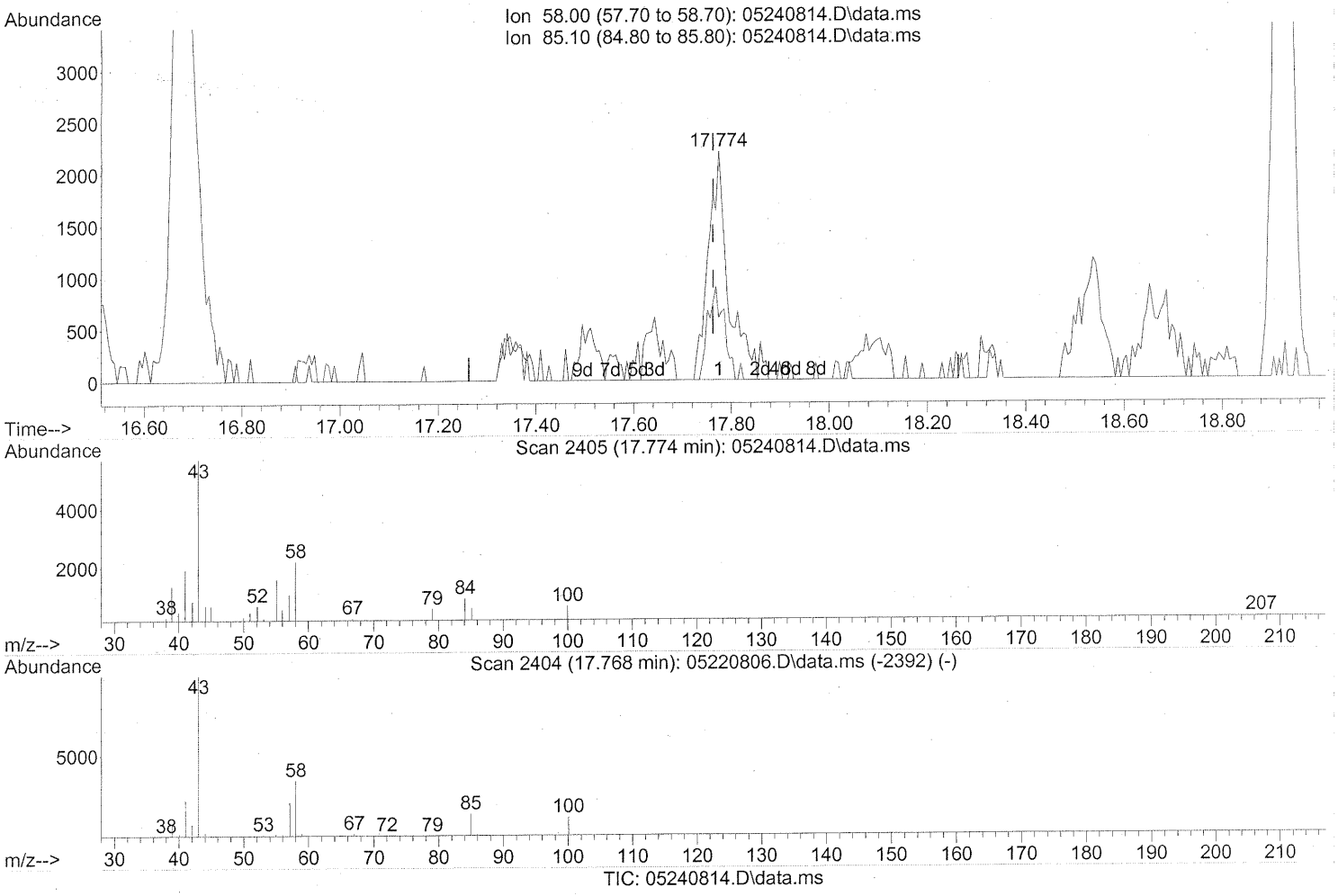
Wt 5/30/08

302

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801422-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:06:52 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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

17.774min (+0.011) 0.20ng

response 6278

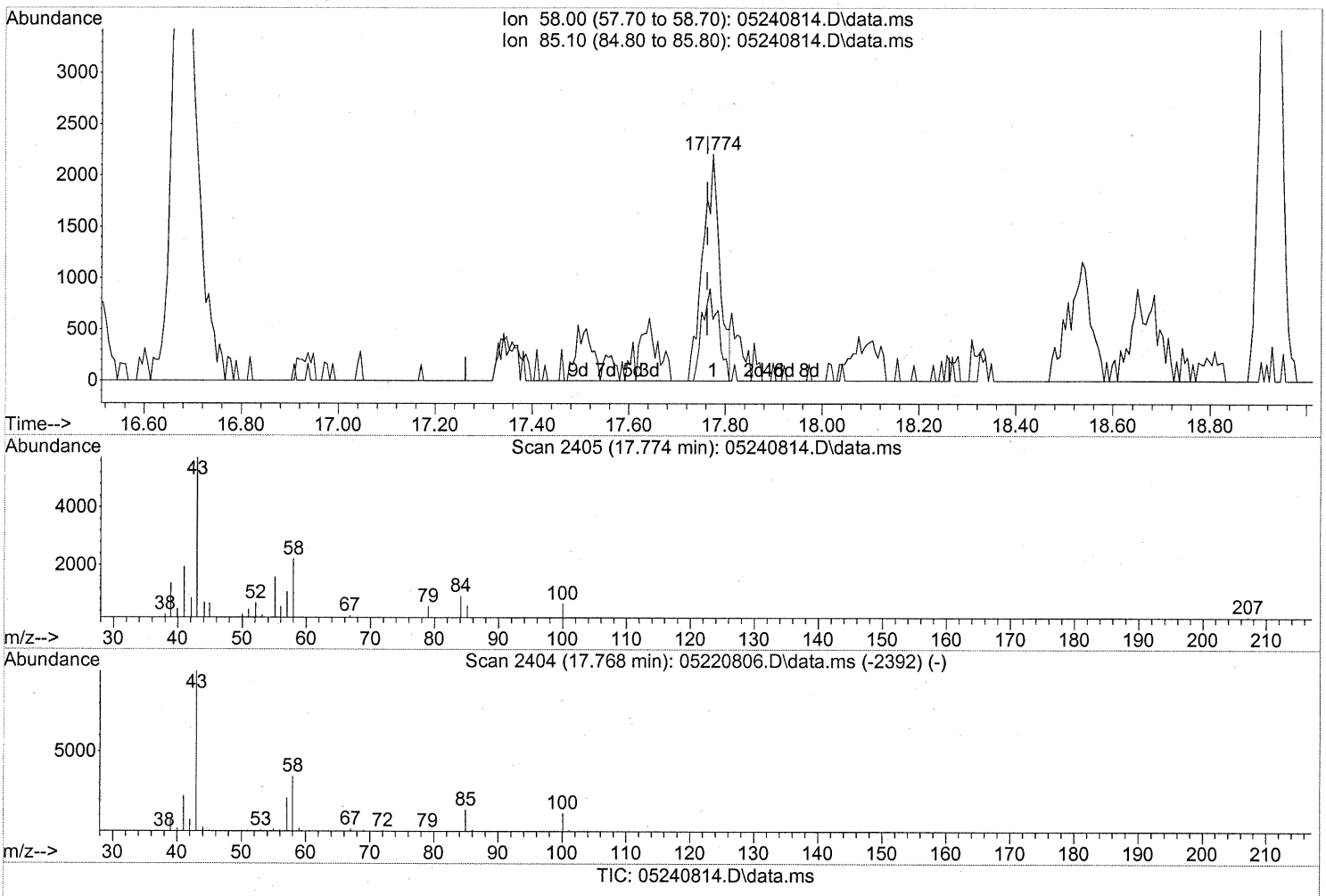
extra tailing

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

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

17.774min (+0.011) 0.17ng m

response 5363

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	38.32
0.00	0.00	0.00
0.00	0.00	0.00

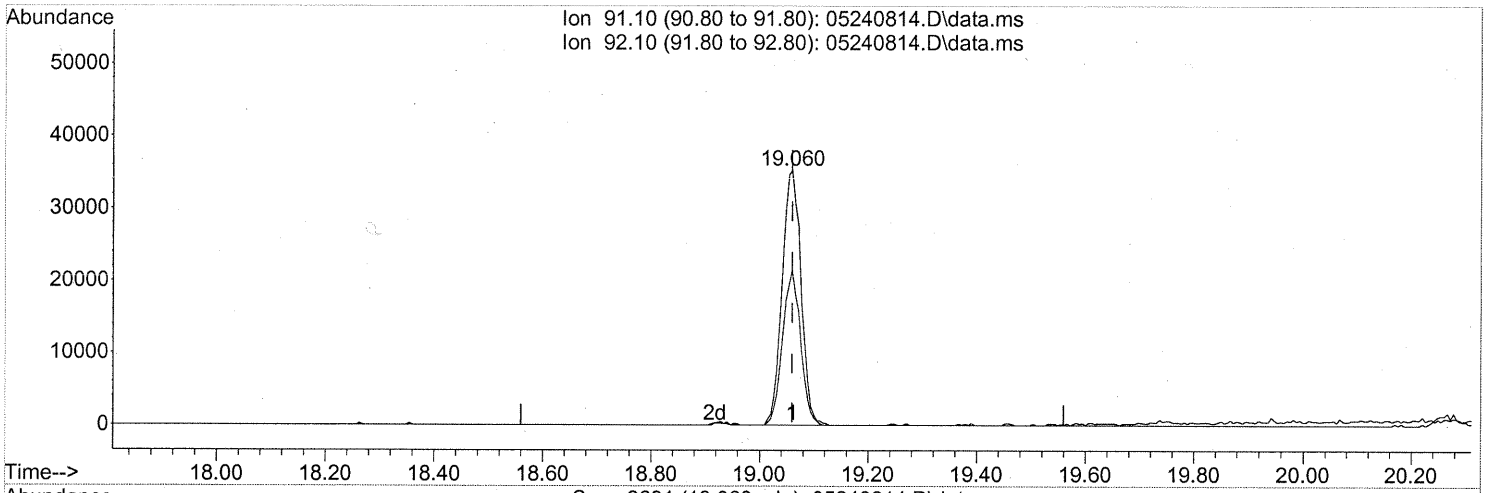
corr. baseline
WA 5/29/08

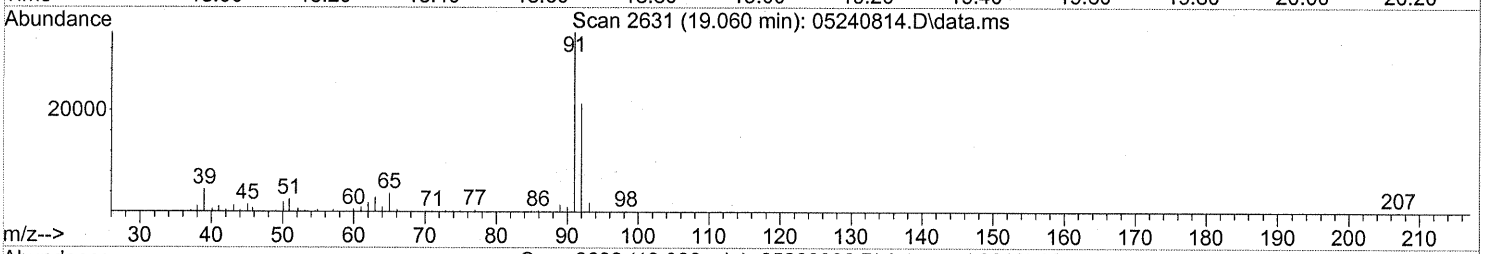
304

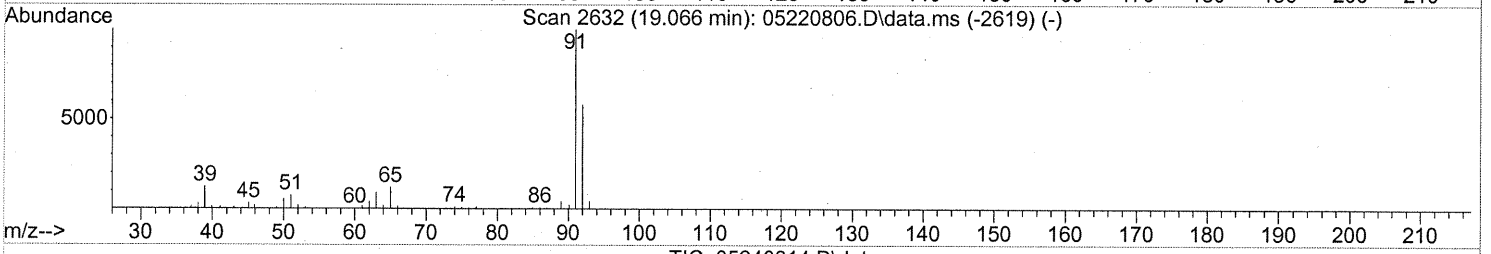
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.65ng

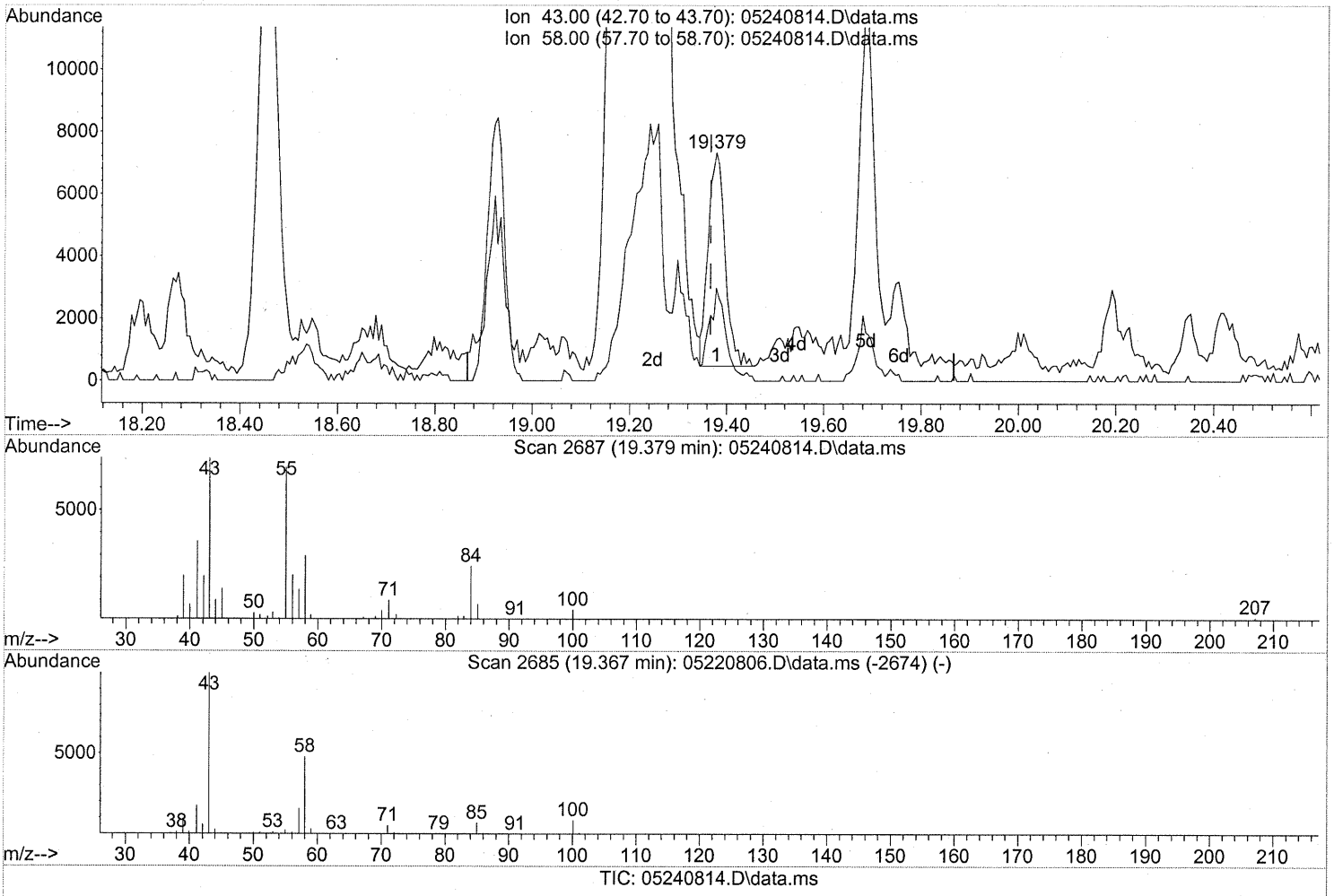
response 84562

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(59) 2-Hexanone (T)

19.379min (+0.011) 0.18ng

response 16540

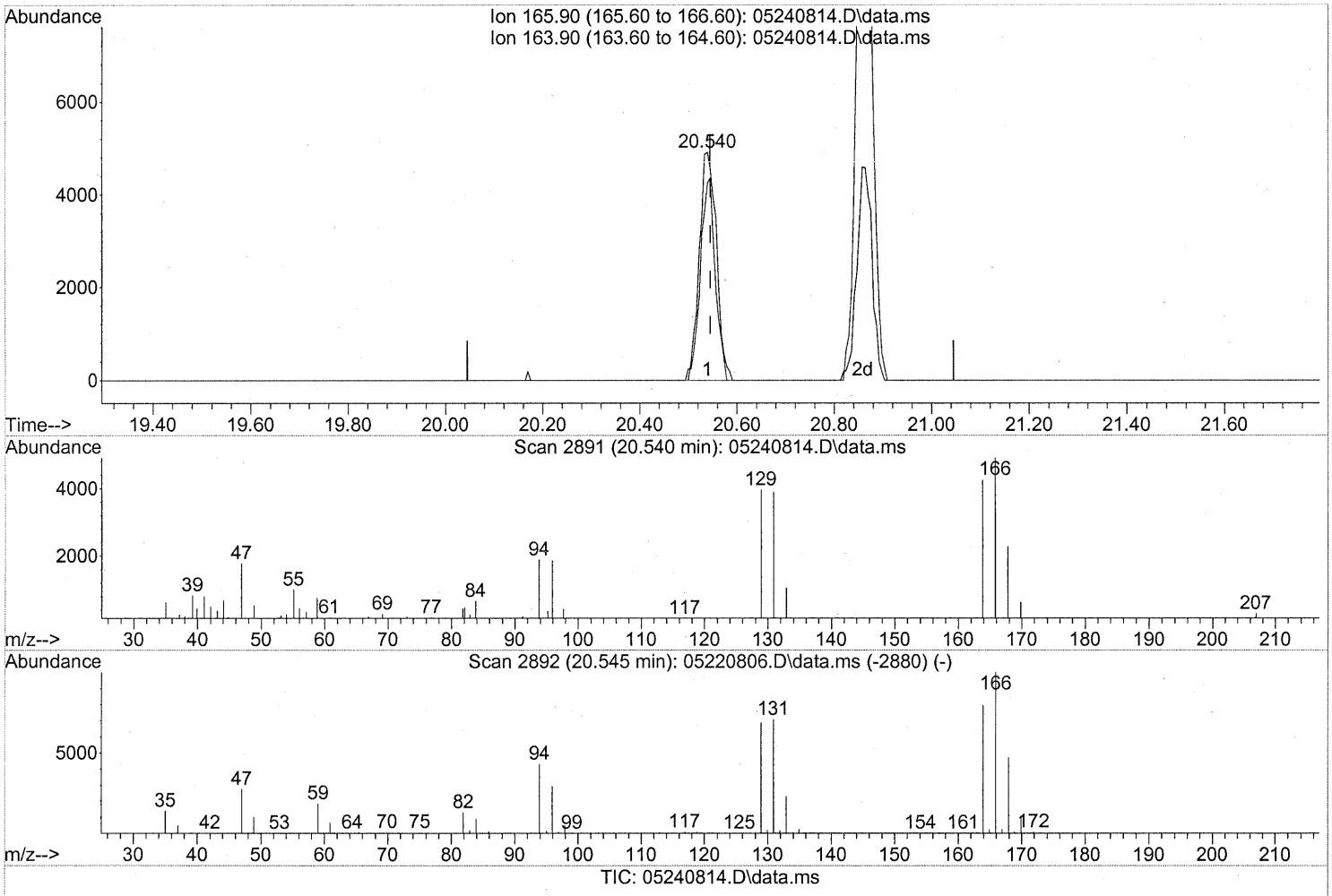
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.20
0.00	0.00	0.00
0.00	0.00	0.00

306

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 0.31ng

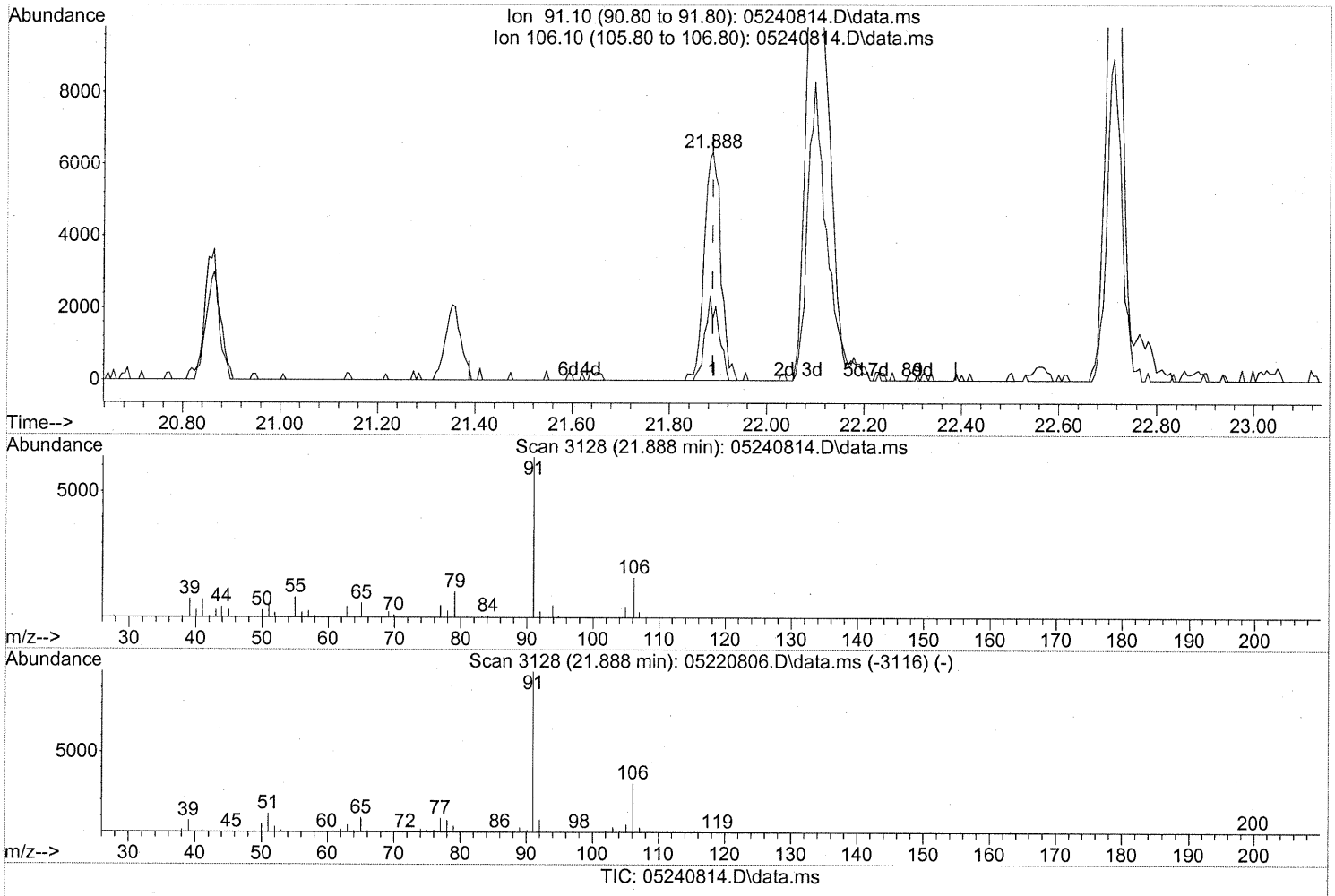
response 11934

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.10ng

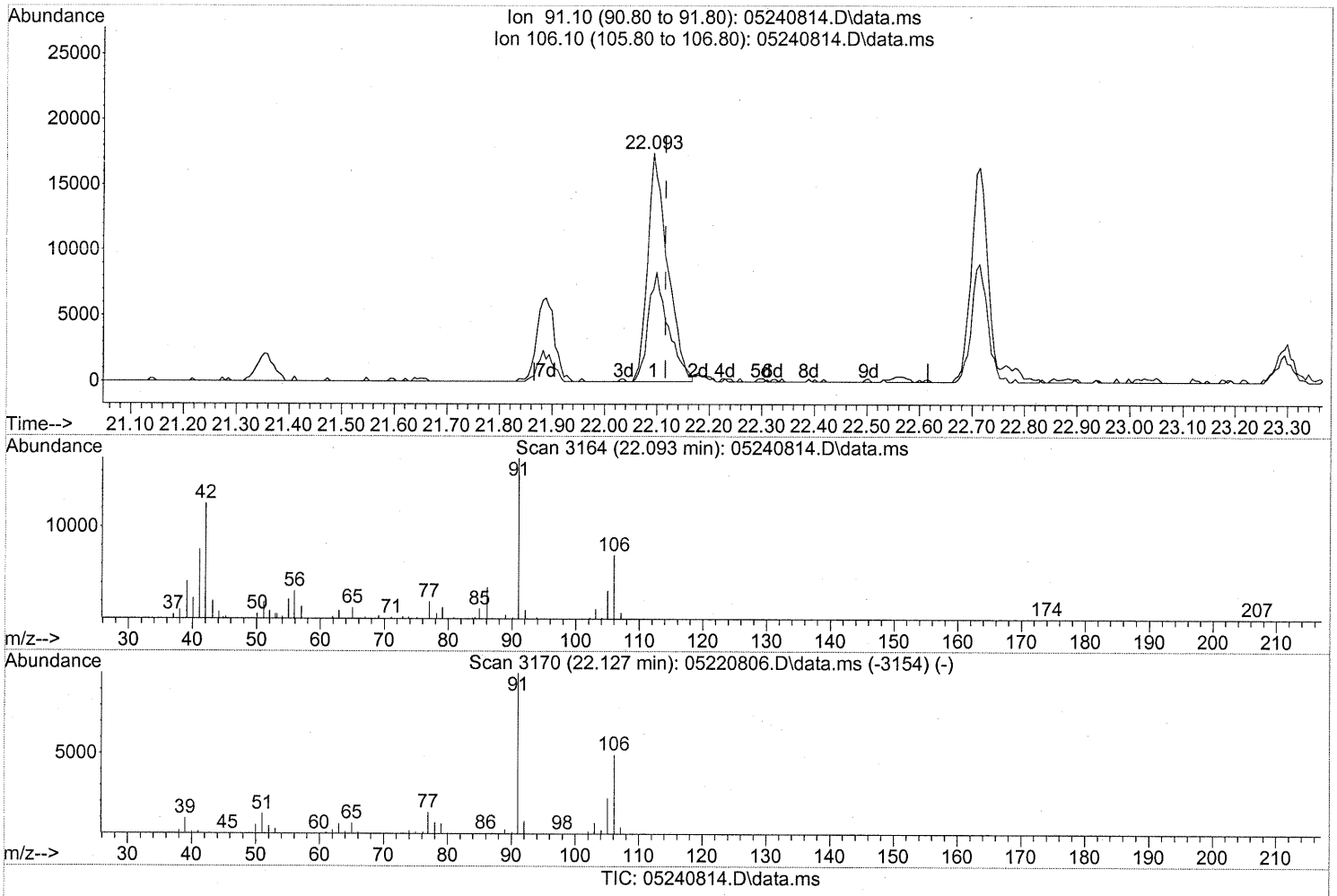
response 14997

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

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

22.093min (-0.023) 0.46ng

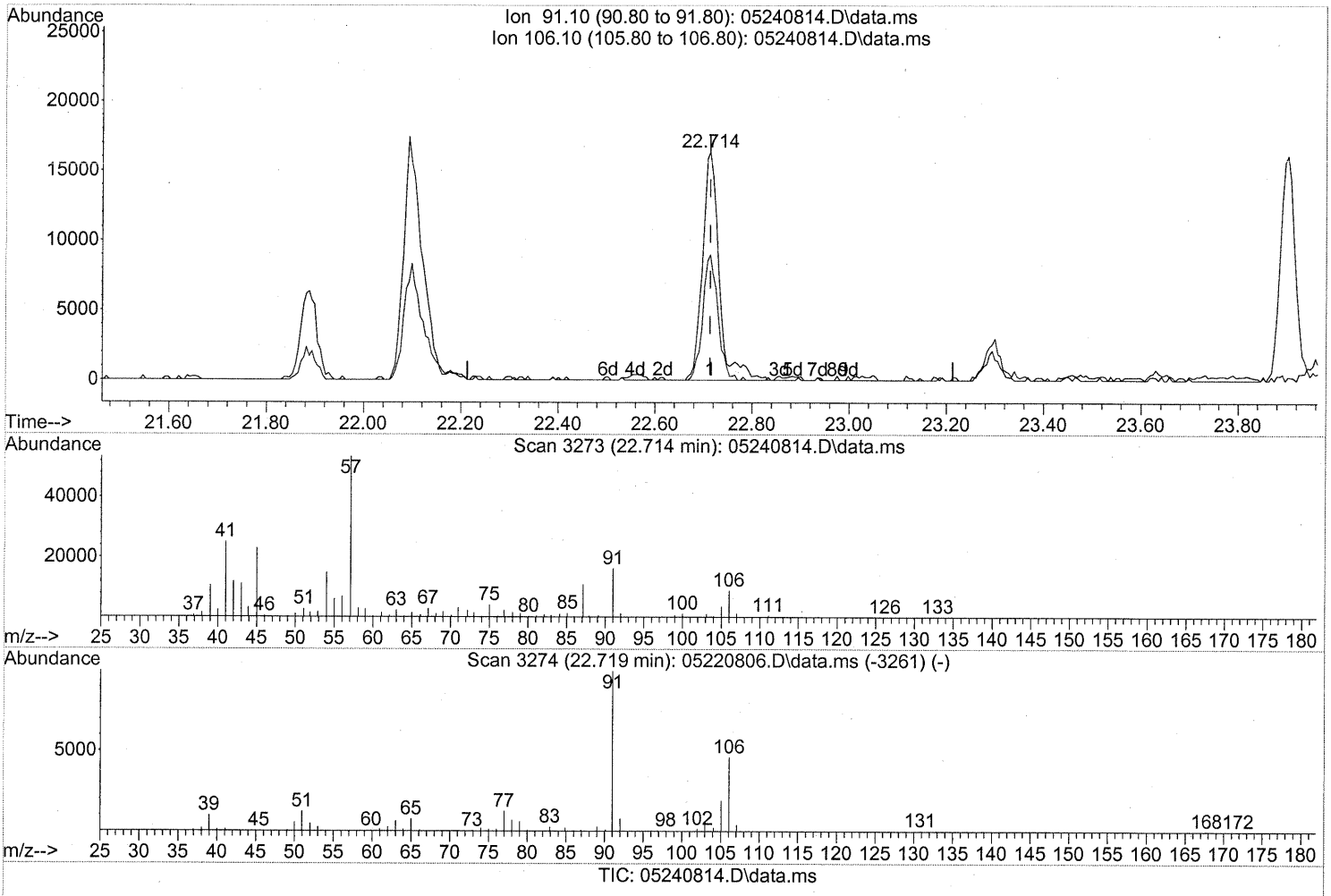
response 45609

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	50.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.36ng

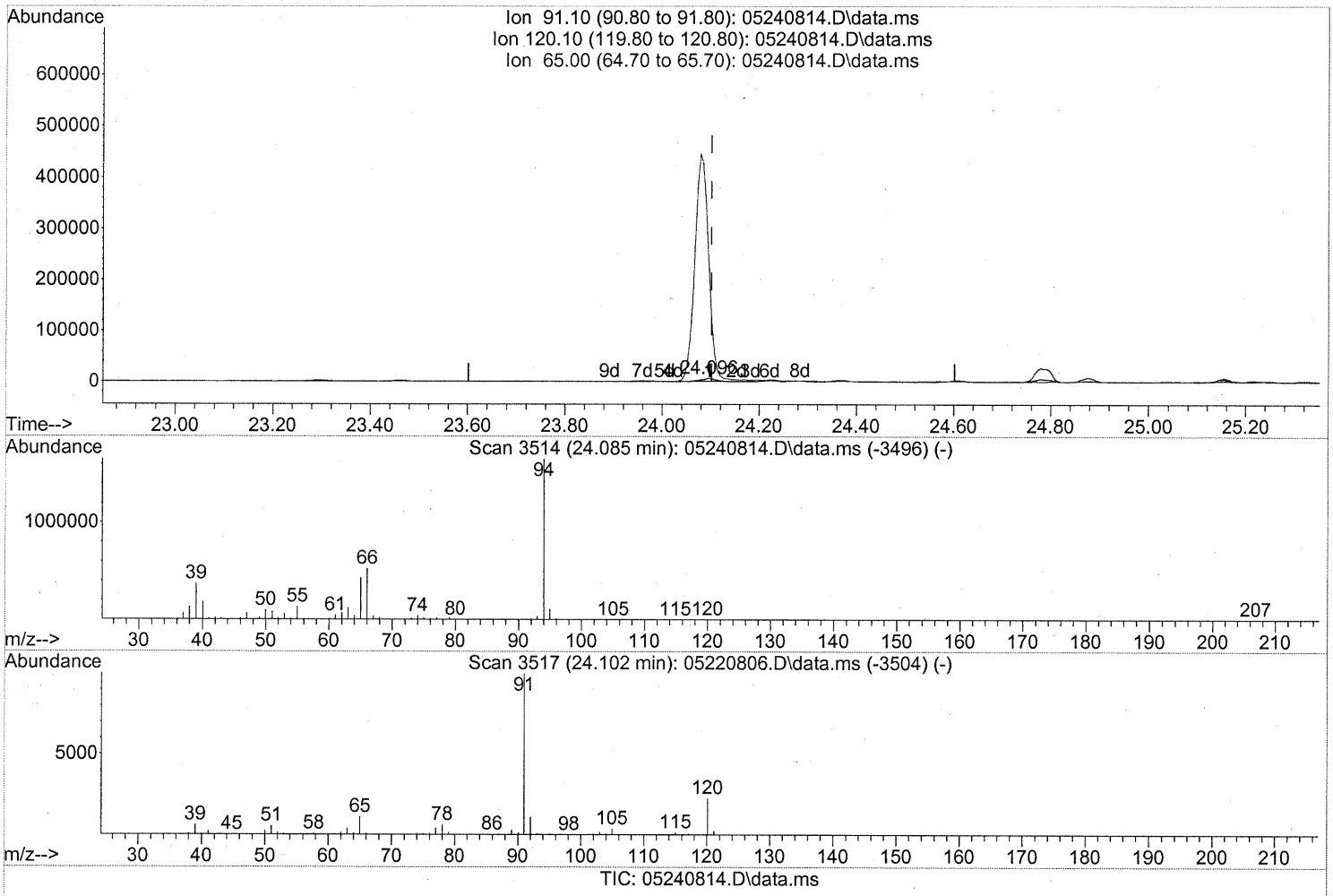
response 38743

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	49.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.07ng

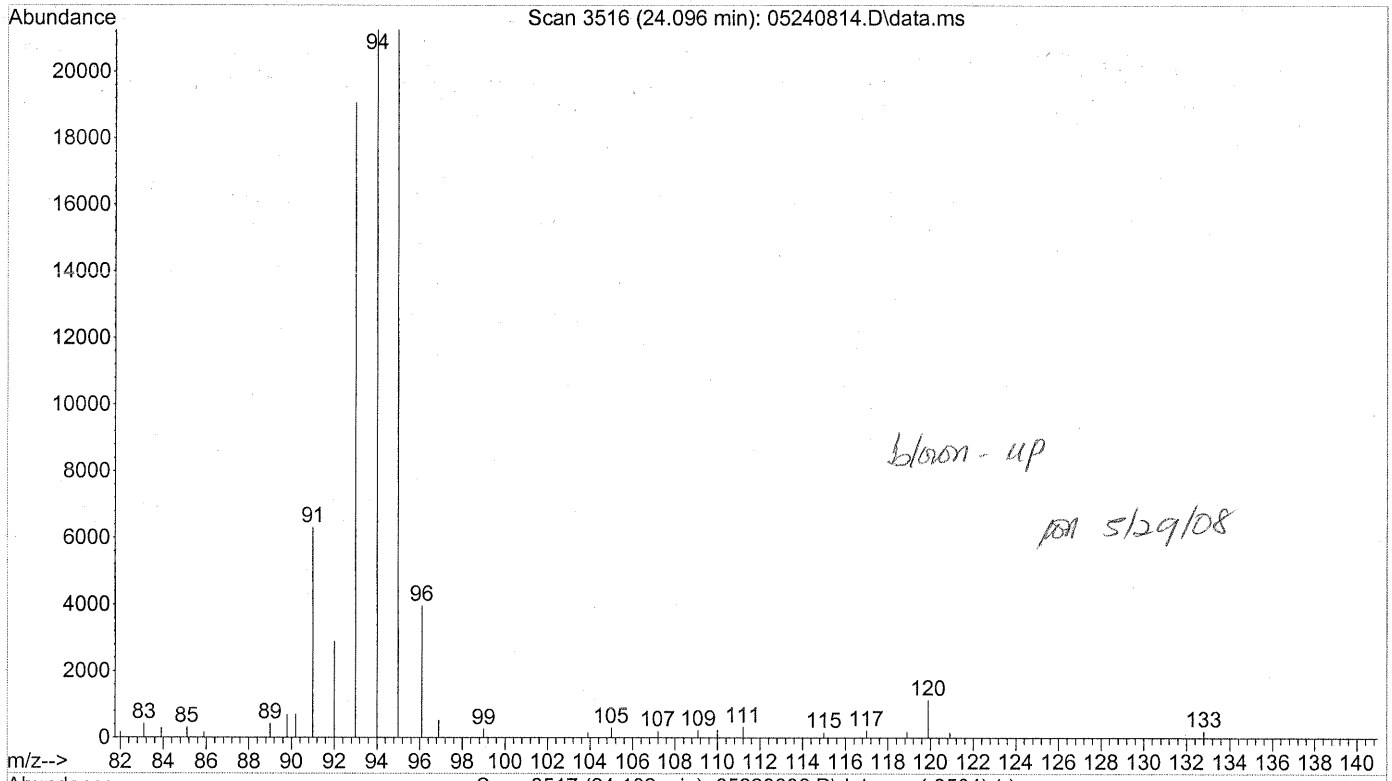
response 12261

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.25
65.00	11.40	7412.28#
0.00	0.00	0.00

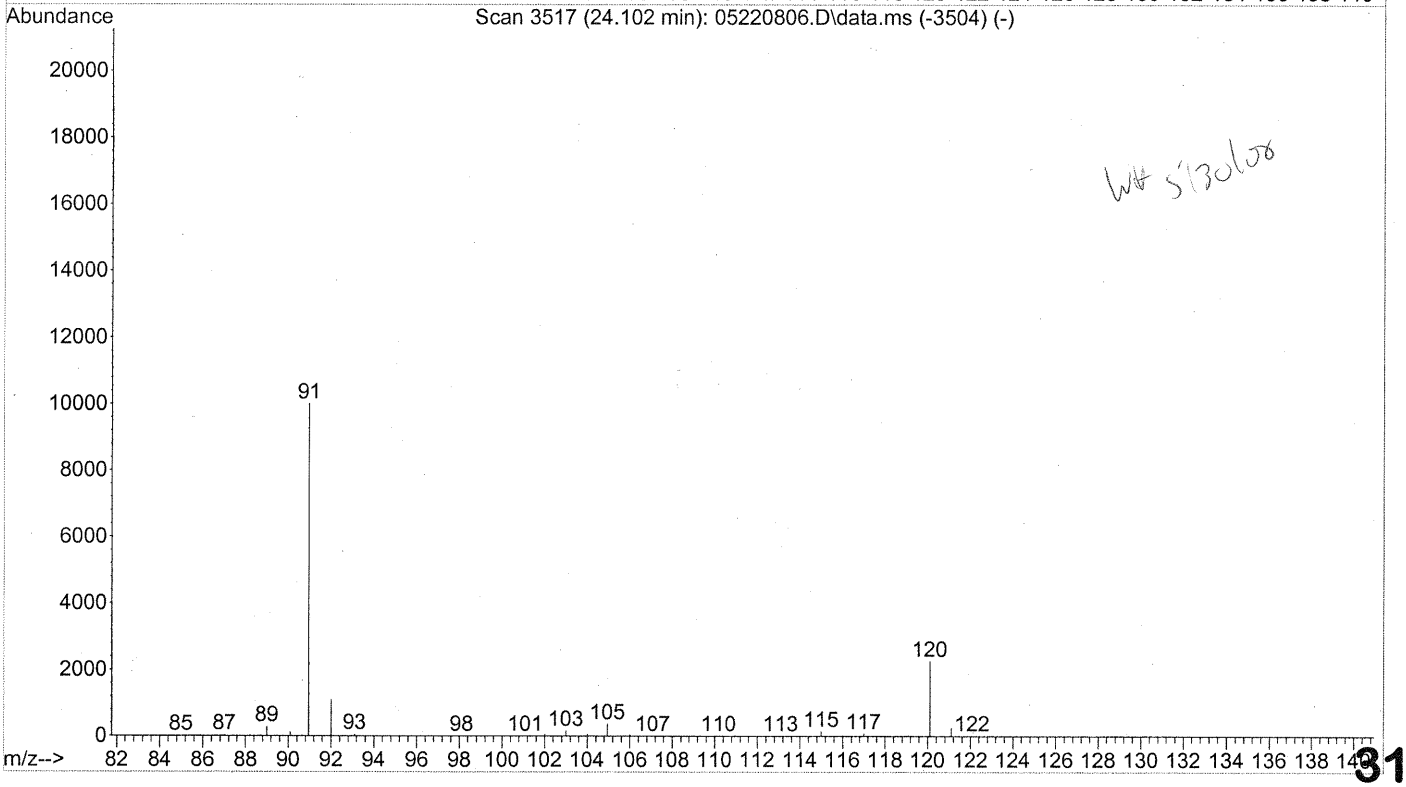
see blown-up spectra

311

File :J:\MS13\DATA\2008_05\24\05240814.D
Operator : WA
Acquired : 24 May 2008 16:00 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-005 (1000ml)
Misc Info : ENSR SG44B-05 (-3.3, 3.8)
Vial Number: 11



blown - up
pm 5/29/08

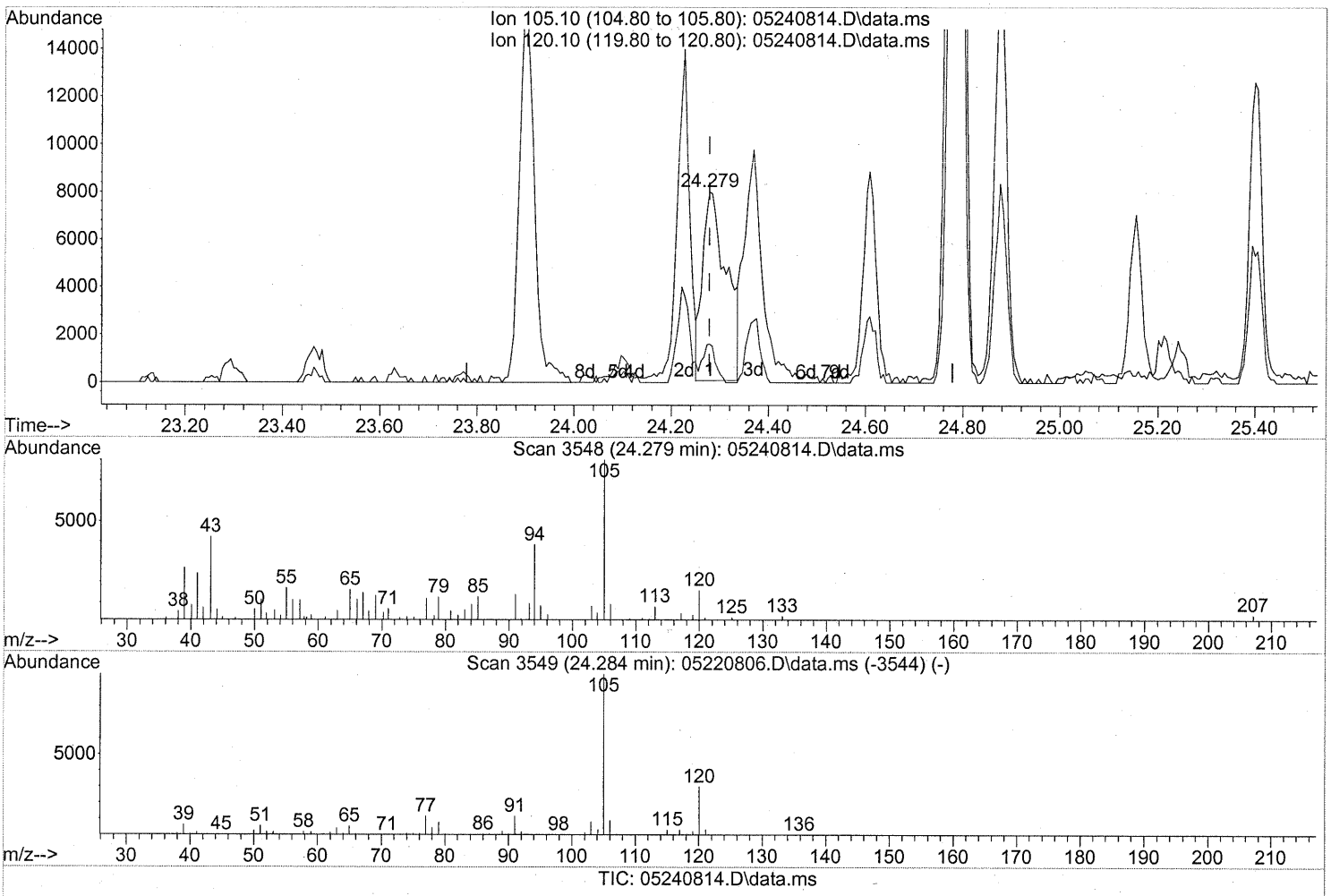


WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.19ng

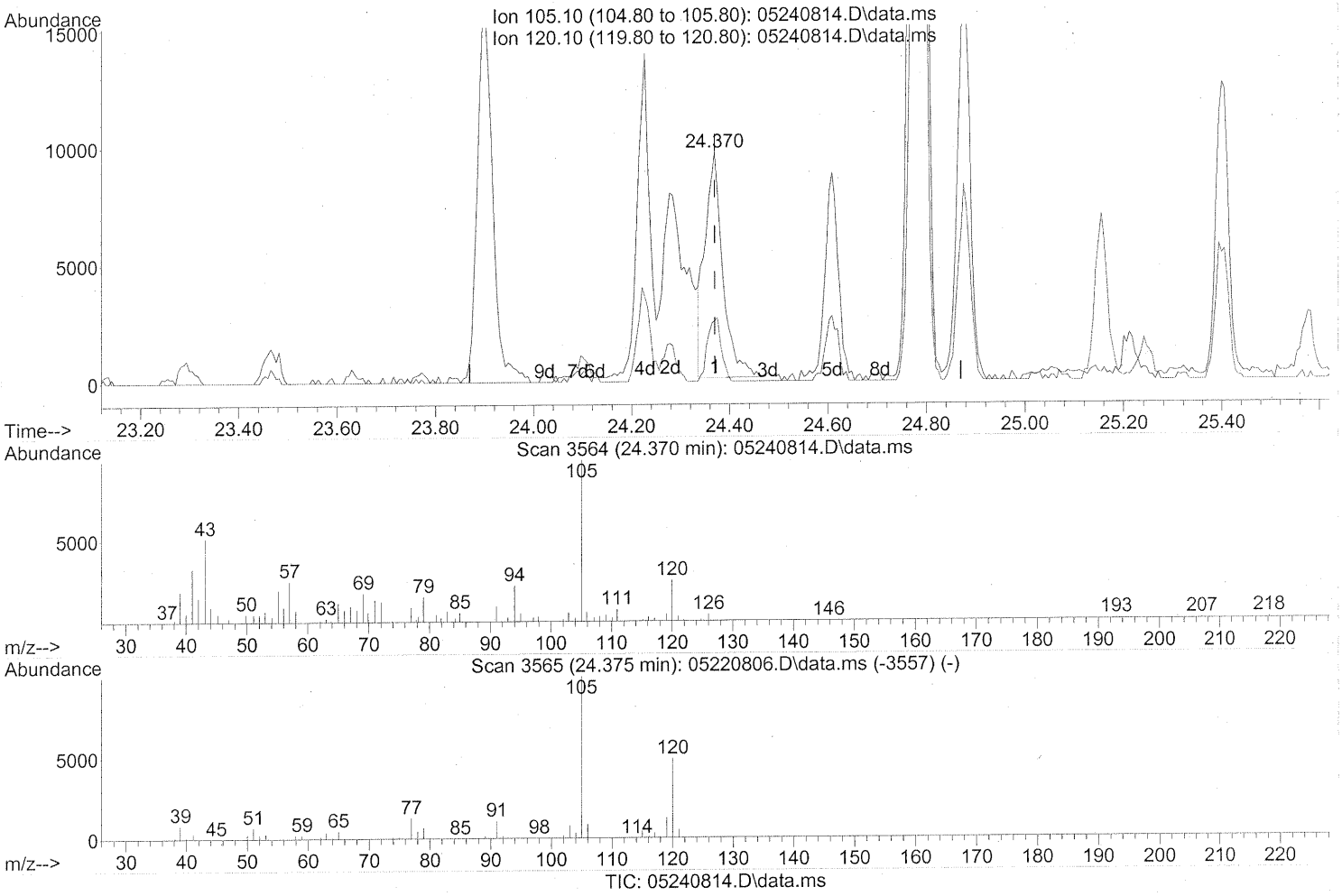
response 26864

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	10.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801422-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:06:52 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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

24.370min (-0.000) 0.19ng

response 24405

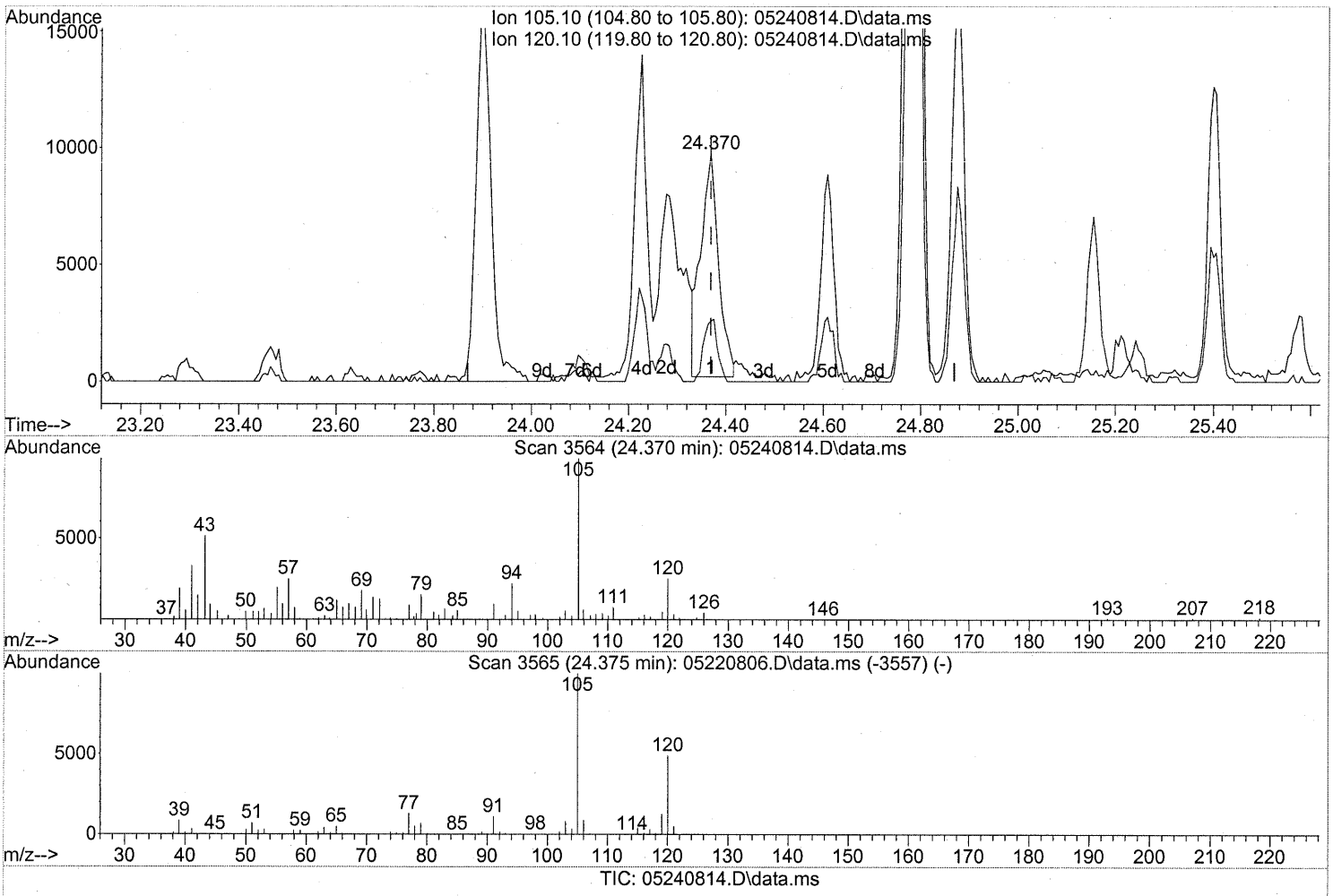
shoulder

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	21.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

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

24.370min (-0.000) 0.19ng m

response 24379

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	21.44#
0.00	0.00	0.00
0.00	0.00	0.00

40% shoulder

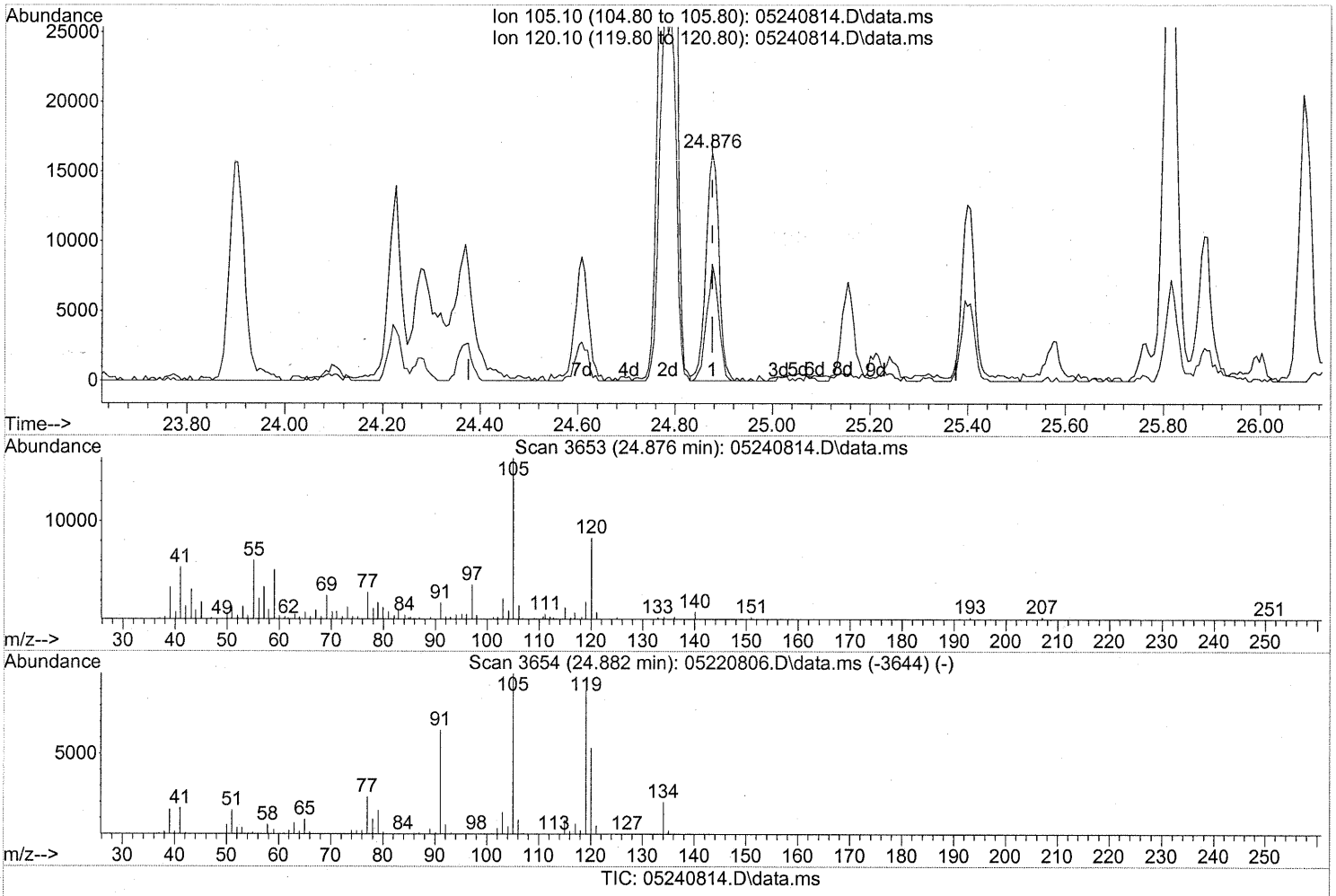
WA 5/30/08

MM 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

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

24.876min (-0.000) 0.23ng

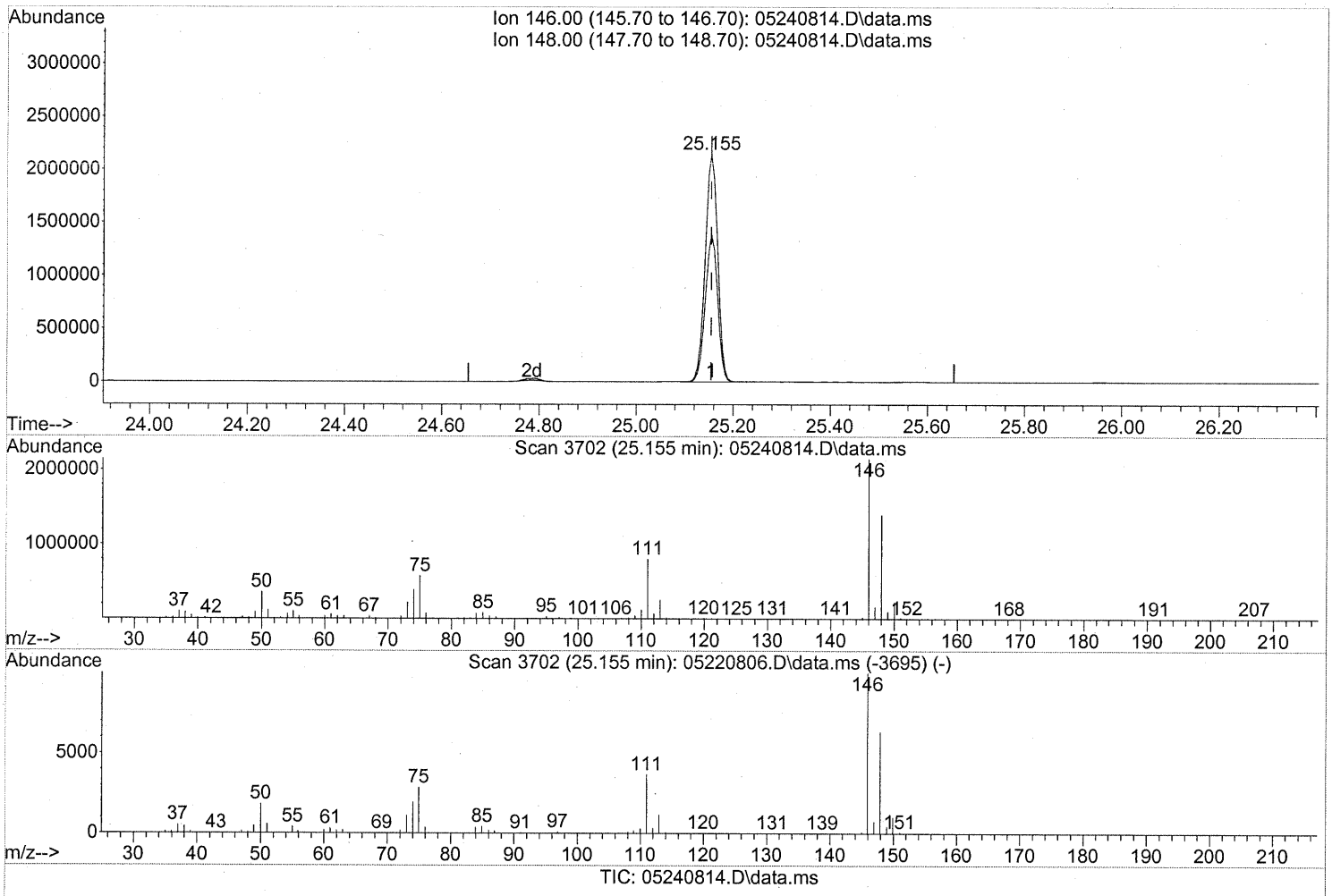
response 30396

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240814.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 48.39ng

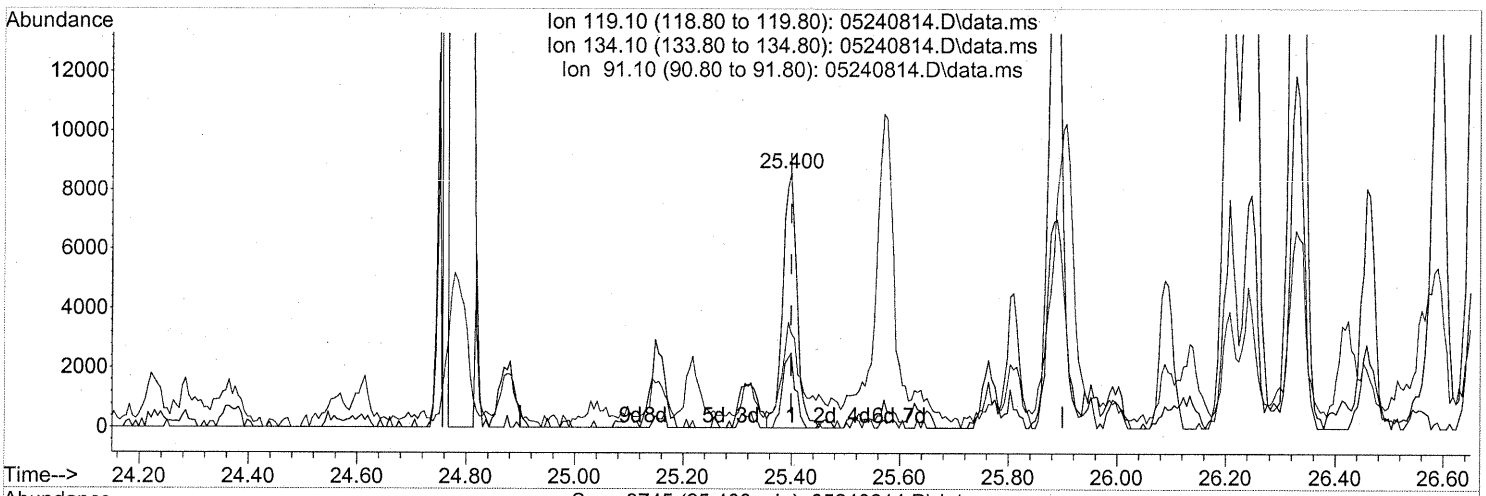
response 3849571

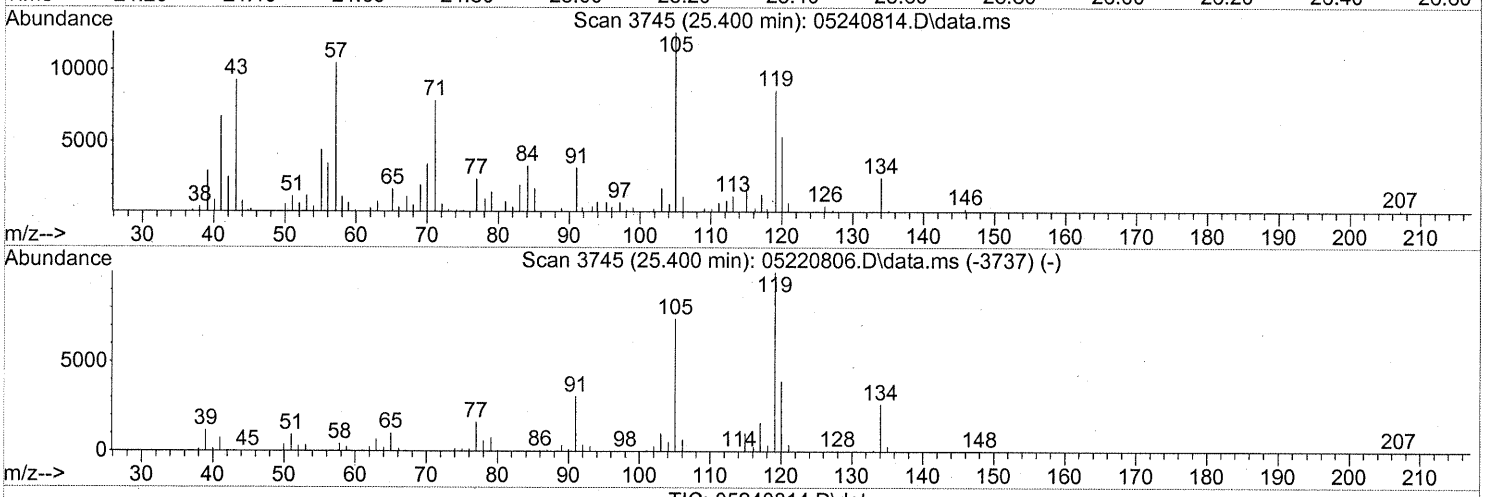
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration





TIC: 05240814.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.11ng

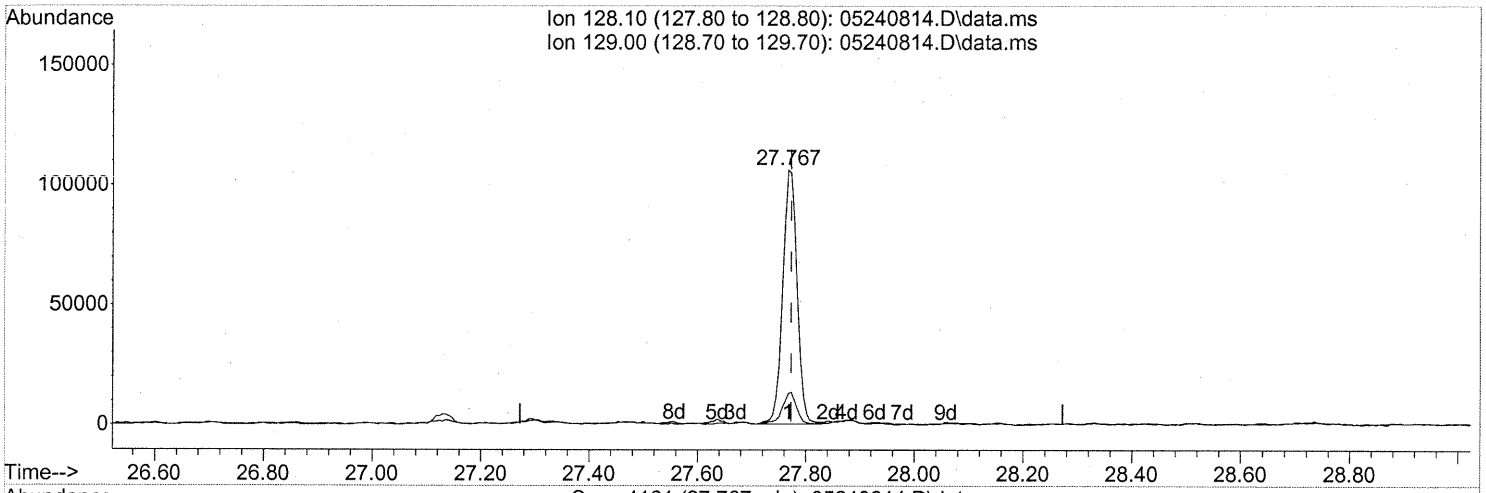
response 15362

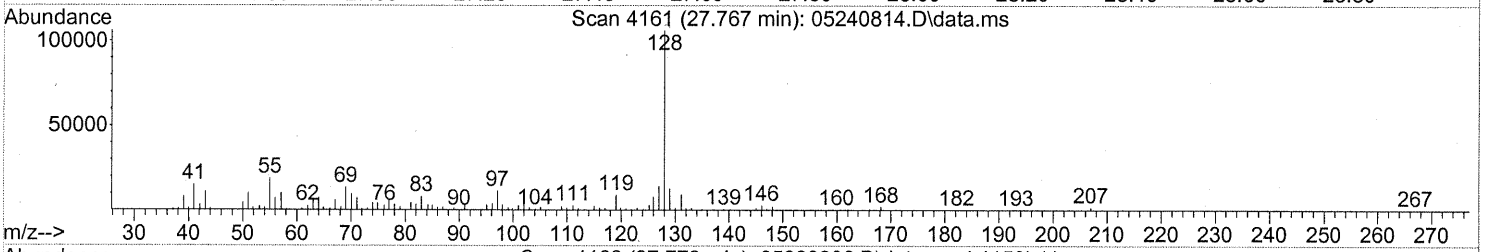
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	26.83
91.10	27.10	54.47#
0.00	0.00	0.00

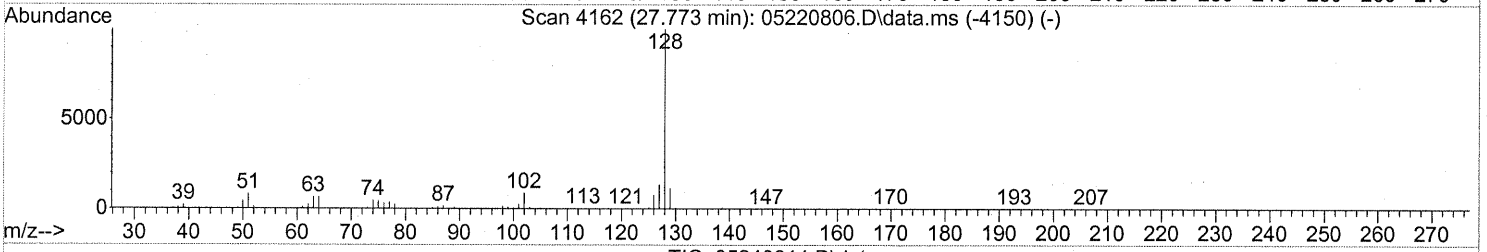
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 07:22:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240814.D\data.ms

(95) Naphthalene (T)

27.767min (-0.006) 1.13ng

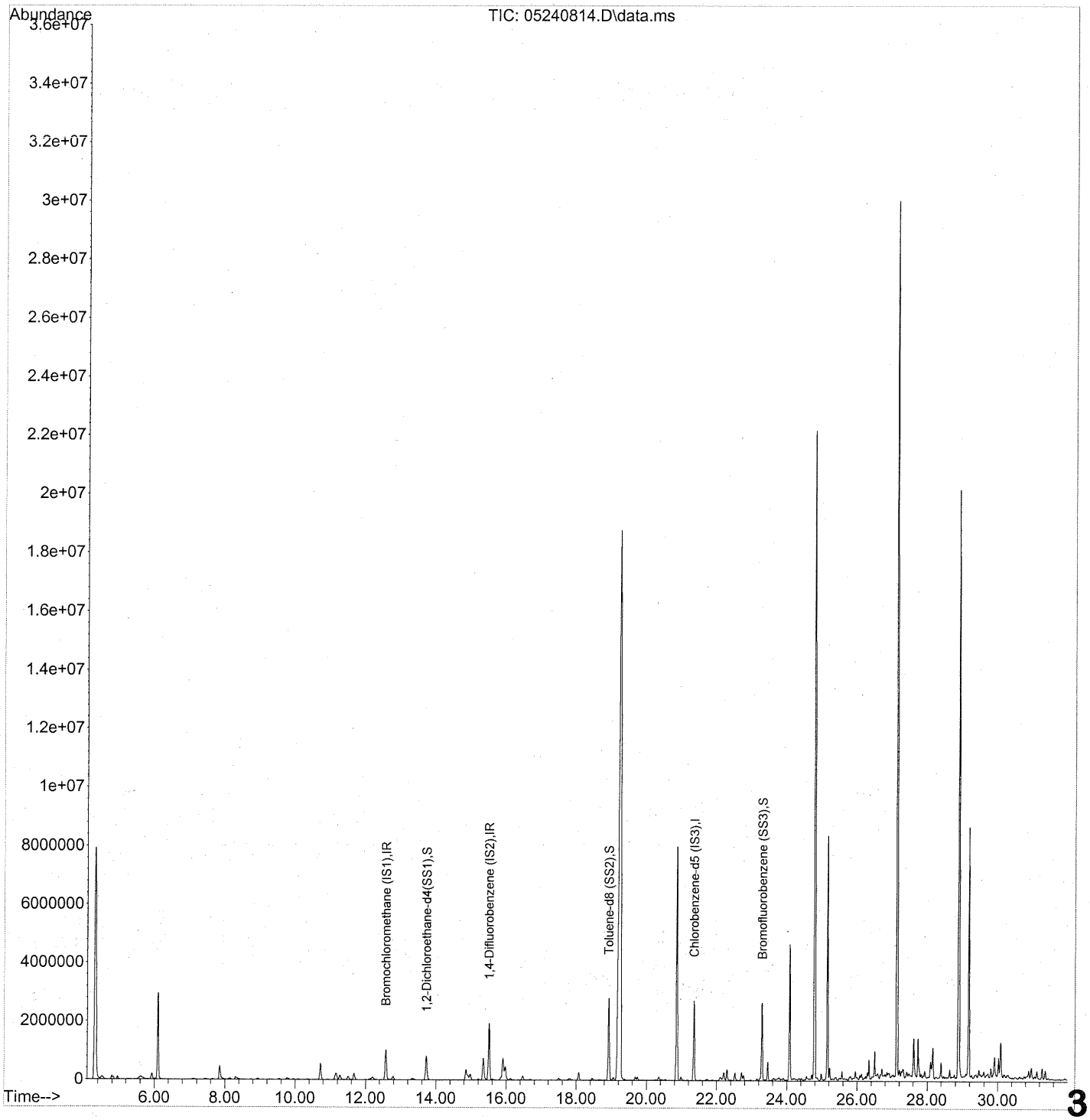
response 195854

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 20:36:50 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240814.D
Acq On : 24 May 2008 16:00
Operator : WA
Sample : P0801442-005 (1000ml)
Misc : ENSR SG44B-05 (-3.3, 3.8)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 25 20:36:50 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	528796	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2294376	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1068545	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	847118	23.120	ng	-0.03
Spiked Amount 25.000			Recovery =	92.48%		
5) Toluene-d8 (SS2)	18.92	98	2380986	24.811	ng	-0.02
Spiked Amount 25.000			Recovery =	99.24%		
6) Bromofluorobenzene (SS3)	23.29	174	1000648	25.642	ng	0.00
Spiked Amount 25.000			Recovery =	102.56%		
Target Compounds						Qvalue
7) tert-Butylbenzene	25.32	119	3683	N.D.		
8) n-Butylbenzene	25.47	91	320	N.D.		

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

DM 5/29/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG88B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00796

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

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

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)**	**2.1**	0.84	0.084	**0.42**	0.17	0.017	
74-87-3	**Chloromethane**	**0.15**	0.17	0.084	**0.072**	0.081	0.040	**J**
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.099**	0.84	0.084	**0.014**	0.12	0.012	**J**
75-01-4	Vinyl Chloride	ND	0.17	0.084	ND	0.065	0.033	
74-83-9	Bromomethane	ND	0.17	0.084	ND	0.043	0.022	
75-00-3	**Chloroethane**	**0.28**	0.17	0.084	**0.10**	0.063	0.032	
64-17-5	**Ethanol**	**2.9**	8.4	0.084	**1.5**	4.4	0.044	**J**
67-64-1	**Acetone**	**24**	8.4	0.12	**10**	3.5	0.051	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.17	0.084	**0.21**	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.84	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.27**	0.84	0.12	**0.089**	0.28	0.041	**J**
75-09-2	**Methylene Chloride**	**0.11**	0.84	0.084	**0.031**	0.24	0.024	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.084	ND	0.053	0.027	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.17	0.094	**0.068**	0.022	0.012	
75-15-0	**Carbon Disulfide**	**9.6**	0.84	0.20	**3.1**	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-34-3	**1,1-Dichloroethane**	**0.18**	0.17	0.084	**0.044**	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.084	ND	0.046	0.023	
108-05-4	**Vinyl Acetate**	**14**	8.4	0.27	**3.9**	2.4	0.076	
78-93-3	**2-Butanone (MEK)**	**4.4**	0.84	0.084	**1.5**	0.28	0.028	
156-59-2	**cis-1,2-Dichloroethene**	**0.16**	0.17	0.084	**0.040**	0.042	0.021	**J**
108-20-3	Diisopropyl Ether	ND	0.84	0.099	ND	0.20	0.024	
67-66-3	**Chloroform**	**12**	0.17	0.099	**2.4**	0.034	0.020	

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

Verified By: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG88B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00796

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

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

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	0.84	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.084	ND	0.041	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
71-43-2	**Benzene**	**2.6**	0.17	0.084	**0.82**	0.052	0.026	
56-23-5	**Carbon Tetrachloride**	**20**	0.17	0.084	**3.2**	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.84	0.084	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.084	ND	0.036	0.018	
75-27-4	**Bromodichloromethane**	**0.16**	0.17	0.084	**0.024**	0.025	0.012	**J**
79-01-6	**Trichloroethene**	**0.20**	0.17	0.084	**0.036**	0.031	0.016	
123-91-1	**1,4-Dioxane**	**0.29**	0.84	0.10	**0.081**	0.23	0.028	**J**
80-62-6	Methyl Methacrylate	ND	0.84	0.13	ND	0.20	0.031	
142-82-5	**n-Heptane**	**0.18**	0.84	0.11	**0.043**	0.20	0.026	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.087	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**0.26**	0.84	0.094	**0.064**	0.20	0.023	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.11	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	**Toluene**	**9.2**	0.84	0.084	**2.4**	0.22	0.022	
591-78-6	**2-Hexanone**	**0.87**	0.84	0.13	**0.21**	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	**n-Octane**	**0.22**	0.84	0.084	**0.047**	0.18	0.018	**J**
127-18-4	**Tetrachloroethene**	**8.4**	0.17	0.084	**1.2**	0.025	0.012	
108-90-7	**Chlorobenzene**	**0.62**	0.17	0.085	**0.13**	0.036	0.019	

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

Verified By: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG88B-05** CAS Sample ID: P0801442-006
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00796

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

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**	**4.4**	0.84	0.10	**1.0**	0.19	0.024	
179601-23-1	**m,p-Xylenes**	**37**	0.84	0.22	**8.4**	0.19	0.050	
75-25-2	Bromoform	ND	0.84	0.13	ND	0.081	0.012	
100-42-5	**Styrene**	**0.14**	0.84	0.13	**0.034**	0.20	0.030	**J**
95-47-6	**o-Xylene**	**7.1**	0.84	0.11	**1.6**	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.016	
98-82-8	**Cumene**	**0.18**	0.84	0.094	**0.036**	0.17	0.019	**J**
103-65-1	**n-Propylbenzene**	**0.53**	0.84	0.087	**0.11**	0.17	0.018	**J**
622-96-8	**4-Ethyltoluene**	**1.5**	0.84	0.095	**0.30**	0.17	0.019	
108-67-8	**1,3,5-Trimethylbenzene**	**2.2**	0.84	0.10	**0.45**	0.17	0.020	
98-83-9	alpha-Methylstyrene	ND	0.84	0.12	ND	0.17	0.025	
95-63-6	**1,2,4-Trimethylbenzene**	**10**	0.84	0.12	**2.1**	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	**1,3-Dichlorobenzene**	**0.23**	0.17	0.10	**0.039**	0.028	0.017	
106-46-7	**1,4-Dichlorobenzene**	**110**	0.17	0.094	**19**	0.028	0.016	
135-98-8	sec-Butylbenzene	ND	0.84	0.097	ND	0.15	0.018	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.91**	0.84	0.11	**0.17**	0.15	0.020	
95-50-1	**1,2-Dichlorobenzene**	**2.4**	0.17	0.11	**0.39**	0.028	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	**Naphthalene**	**9.5**	0.33	0.12	**1.8**	0.064	0.024	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.084	ND	0.061	0.015	
104-51-8	**n-Butylbenzene**	**1.5**	0.33	0.084	**0.27**	0.061	0.015	

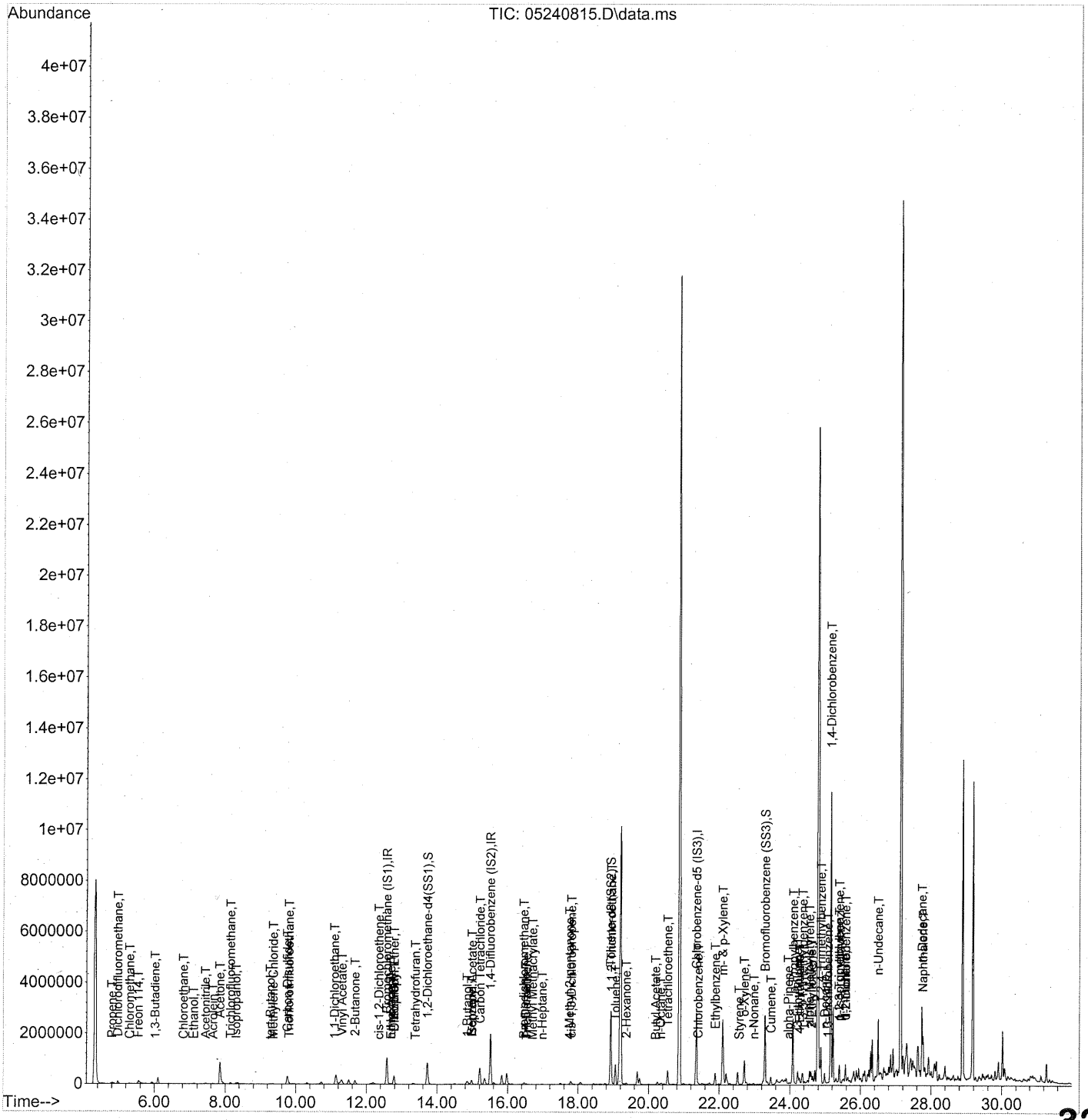
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: RC Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	542028	25.000 ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2318224	25.000 ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1105781	25.000 ng	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	13.73	65	867896	23.109 ng	0.00
Spiked Amount 25.000			Recovery =	92.44%	
57) Toluene-d8 (SS2)	18.92	98	2429089	24.460 ng	0.00
Spiked Amount 25.000			Recovery =	97.84%	
73) Bromofluorobenzene (SS3)	23.29	174	1023064	25.333 ng	0.00
Spiked Amount 25.000			Recovery =	101.32%	
Target Compounds					Qvalue
2) Propene	4.80	42	25899	0.605 ng #	66
3) Dichlorodifluoromethane	4.97	85	97457	1.235 ng	99
4) Chloromethane	5.30	50	4529	0.089 ng #	41
5) Freon 114	5.54	135	2295	0.059 ng	93
6) Vinyl Chloride	5.75	62	453	N.D. ✓	
7) 1,3-Butadiene	6.02	54	2956	0.078 ng #	47
8) Bromomethane	6.49	94	1234	N.D. ✓	
9) Chloroethane	6.82	64	4011	0.165 ng	96
10) Ethanol	7.10	45	49217m	1.727 ng	
11) Acetonitrile	7.44	41	47096	0.571 ng	93
12) Acrolein	7.66	56	25636	1.259 ng	96
13) Acetone	7.85	58	425011m	14.566 ng	
14) Trichlorofluoromethane	8.15	101	48221	0.712 ng	99
15) Isopropanol	8.31	45	115050	1.236 ng	99
16) Acrylonitrile	8.63	53	1058	N.D. ✓	
17) 1,1-Dichloroethene	9.15	96	387	N.D. ✓	
18) tert-Butanol	9.28	59	12748m	0.161 ng	
19) Methylene Chloride	9.36	84	2090	0.064 ng #	72
20) Allyl Chloride	9.55	41	383	N.D. ✓	
21) Trichlorotrifluoroethane	9.81	151	9541	0.310 ng	91
22) Carbon Disulfide	9.76	76	712515	5.758 ng	99
23) trans-1,2-Dichloroethene	10.79	61	127	N.D. ✓	
24) 1,1-Dichloroethane	11.09	63	6019	0.106 ng	99
25) Methyl tert-Butyl Ether	11.23	73	54	N.D. ✓	
26) Vinyl Acetate	11.31	86	44319	8.219 ng #	1
27) 2-Butanone	11.68	72	56241	2.641 ng #	88
28) cis-1,2-Dichloroethene	12.36	61	4346	0.094 ng #	71
29) Diisopropyl Ether	12.78	87	35340	~~1.354 ng~~ NR #	1
30) Ethyl Acetate	12.69	61	3093	0.269 ng	75
31) n-Hexane	12.70	57	8274	0.143 ng	97

JSH 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	346809	7.017 ng		99
34) Tetrahydrofuran	13.38	72	2512	0.123 ng	#	77
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.87	62	58	N.D.		
38) 1,1,1-Trichloroethane	14.29	97	1986	N.D.		
39) Isopropyl Acetate	14.99	61	1511	0.076 ng	#	1
40) 1-Butanol	14.85	56	119321	3.745 ng		87
41) Benzene	14.98	78	189664	1.563 ng		99
42) Carbon Tetrachloride	15.21	117	558464	11.947 ng		99
43) Cyclohexane	15.46	84	293	N.D.		
44) tert-Amyl Methyl Ether	15.80	73	1970	N.D.		
45) 1,2-Dichloropropane	15.98	63	308	N.D.		
46) Bromodichloromethane	16.46	83	3987	0.097 ng		94
47) Trichloroethene	16.53	130	4338	0.117 ng		98
48) 1,4-Dioxane	16.50	88	4003	0.175 ng		80
49) Isooctane	16.62	57	4353	N.D.		
50) Methyl Methacrylate	16.71	100	1095	~~0.090 ng~~ UR	#	1
51) n-Heptane	16.98	71	3378	0.105 ng		89
52) cis-1,3-Dichloropropene	17.81	75	2769	~~0.057 ng~~ UR		77
53) 4-Methyl-2-pentanone	17.76	58	5045	0.157 ng		66
54) trans-1,3-Dichloropropene	18.43	75	158	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	212953	~~7.100 ng~~ UR	#	9
58) Toluene	19.06	91	741583	5.493 ng		98
59) 2-Hexanone	19.37	43	48466	0.521 ng		77
60) Dibromochloromethane	19.61	129	244	N.D.		
61) 1,2-Dibromoethane	19.75	107	285	N.D.		
62) Butyl Acetate	20.20	43	6489	0.069 ng		97
63) n-Octane	20.34	57	3903	0.131 ng		88
64) Tetrachloroethene	20.54	166	200088	5.009 ng		99
65) Chlorobenzene	21.40	112	33365	0.369 ng		99
66) Ethylbenzene	21.89	91	409118	2.643 ng		95
67) m- & p-Xylene	22.10	91	2272243	21.946 ng		92
68) Bromoform	22.21	173	213	N.D.		
69) Styrene	22.57	104	7962	0.086 ng	#	59
70) o-Xylene	22.71	91	473854	4.240 ng		98
71) n-Nonane	22.98	43	25279	0.319 ng	#	78
72) 1,1,2,2-Tetrachloroethane	22.70	83	902	N.D.		
74) Cumene	23.46	105	15876	0.107 ng		97
75) alpha-Pinene	23.96	93	5681	0.074 ng	#	46
76) n-Propylbenzene	24.10	91	60399	0.319 ng	#	1
77) 3-Ethyltoluene	24.22	105	294087	1.856 ng		98
78) 4-Ethyltoluene	24.28	105	131932	0.893 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	176545	1.323 ng		99

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

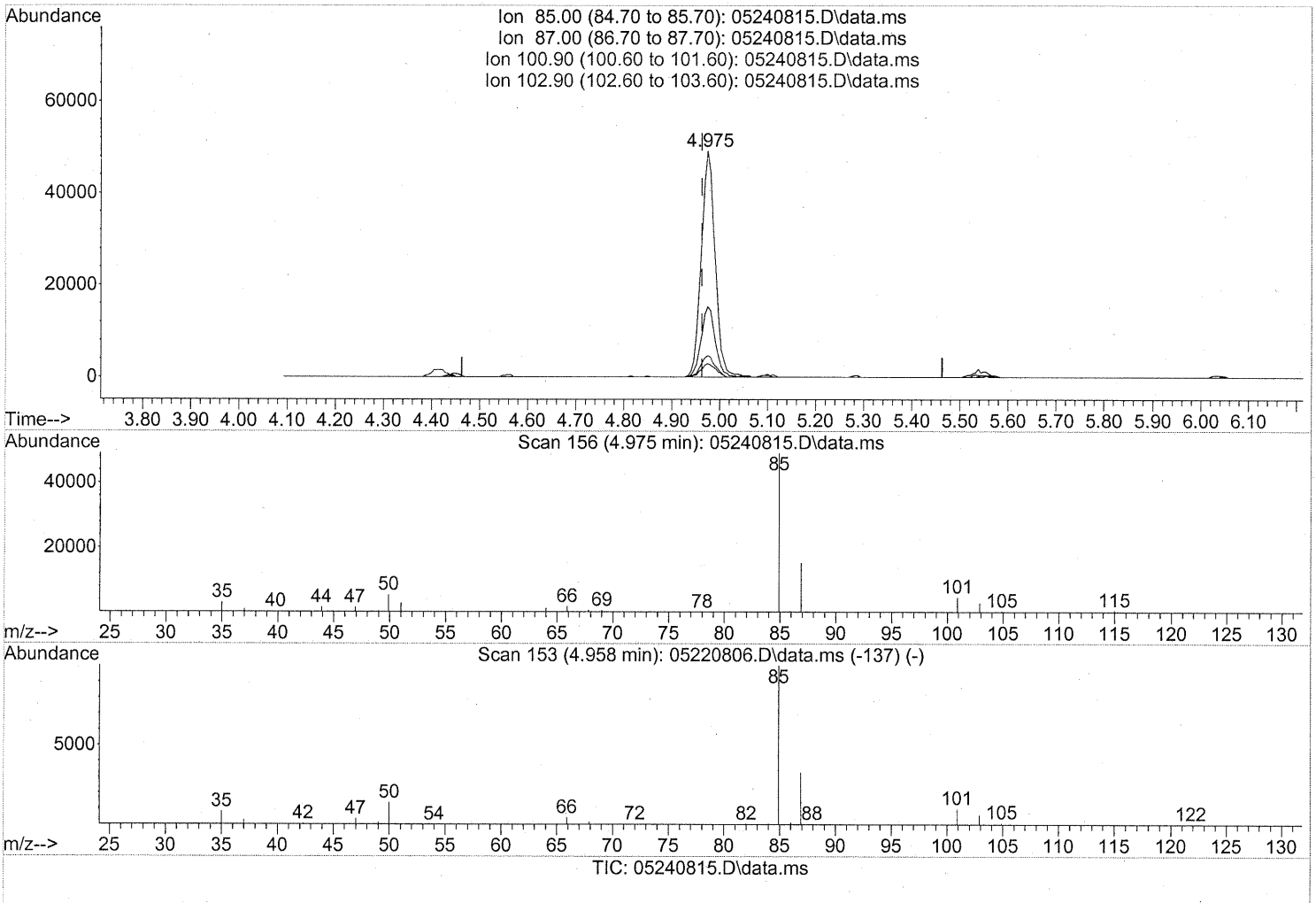
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	5467	~~0.076 ng~~ NR #	61
81) 2-Ethyltoluene	24.61	105	192047	1.196 ng	97
82) 1,2,4-Trimethylbenzene	24.88	105	824218	6.067 ng	89
83) n-Decane	24.98	57	156516	2.094 ng	78
84) Benzyl Chloride	25.04	91	3240	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	11822	0.139 ng	99
86) 1,4-Dichlorobenzene	25.16	146	5481503	66.577 ng	100
87) sec-Butylbenzene	25.21	105	7577	N.D. ✓	
88) p-Isopropyltoluene	25.40	119	78048	0.546 ng #	62
89) 1,2,3-Trimethylbenzene	25.40	105	307978	2.317 ng	89
90) 1,2-Dichlorobenzene	25.58	146	113529	1.409 ng	97
91) d-Limonene	25.58	68	113657	2.100 ng	94
92) 1,2-Dibromo-3-Chloropr...	26.12	157	211	N.D. ✓	
93) n-Undecane	26.50	57	856444	10.949 ng	80
94) 1,2,4-Trichlorobenzene	27.64	180	2059	N.D. ✓	
95) Naphthalene	27.77	128	1021676	5.702 ng	97
96) n-Dodecane	27.74	57	897221	11.534 ng	82
97) Hexachloro-1,3-butadiene	28.16	225	169	N.D. ✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 1.24ng

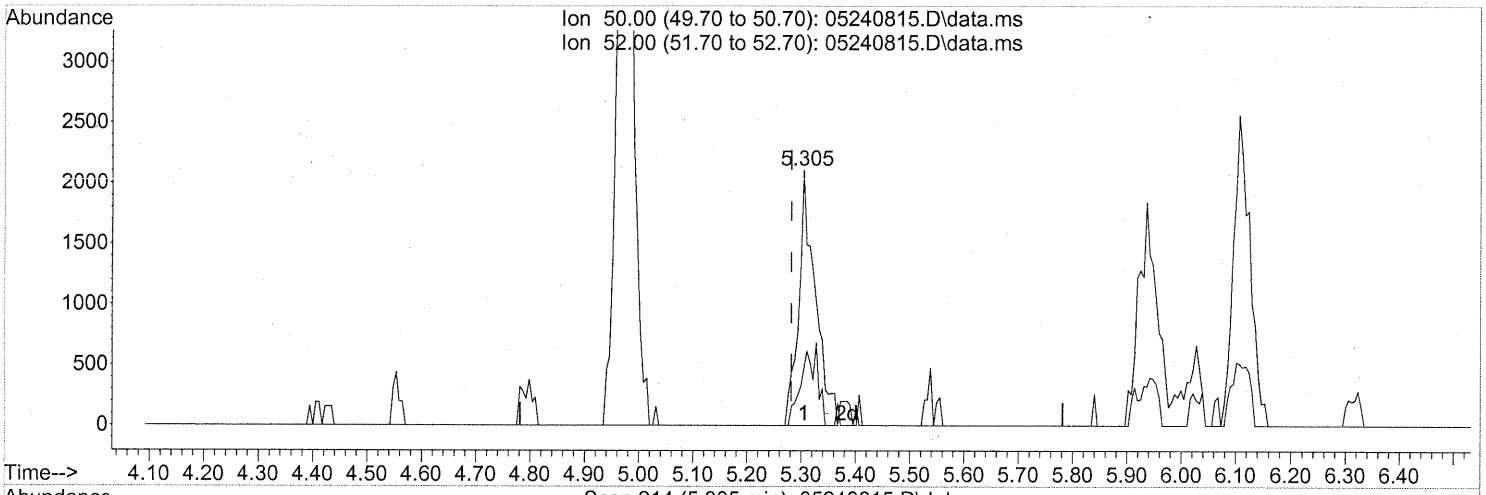
response 97457

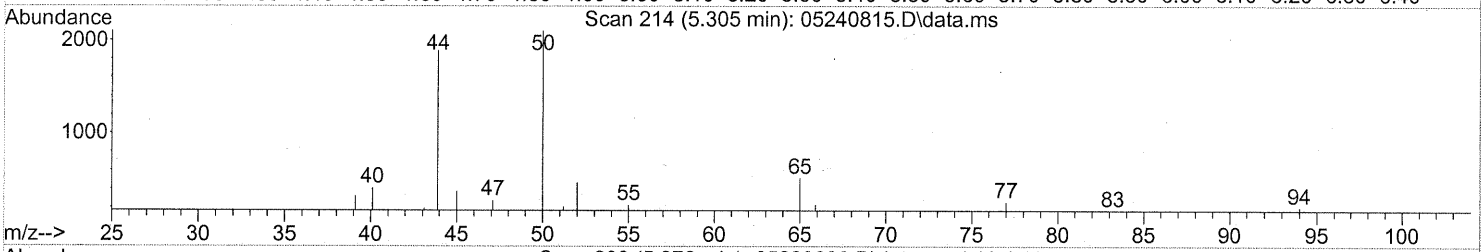
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.56
100.90	9.30	9.54
102.90	6.00	6.14

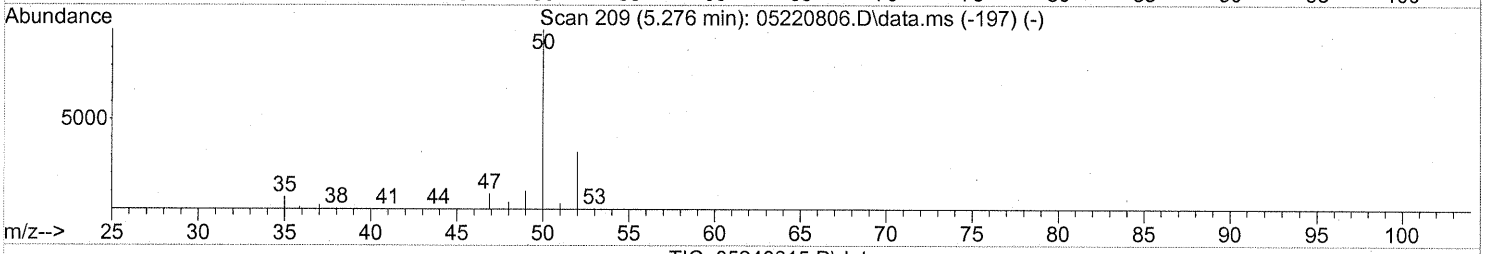
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(4) Chloromethane (T)

5.305min (+0.023) 0.09ng

response 4529

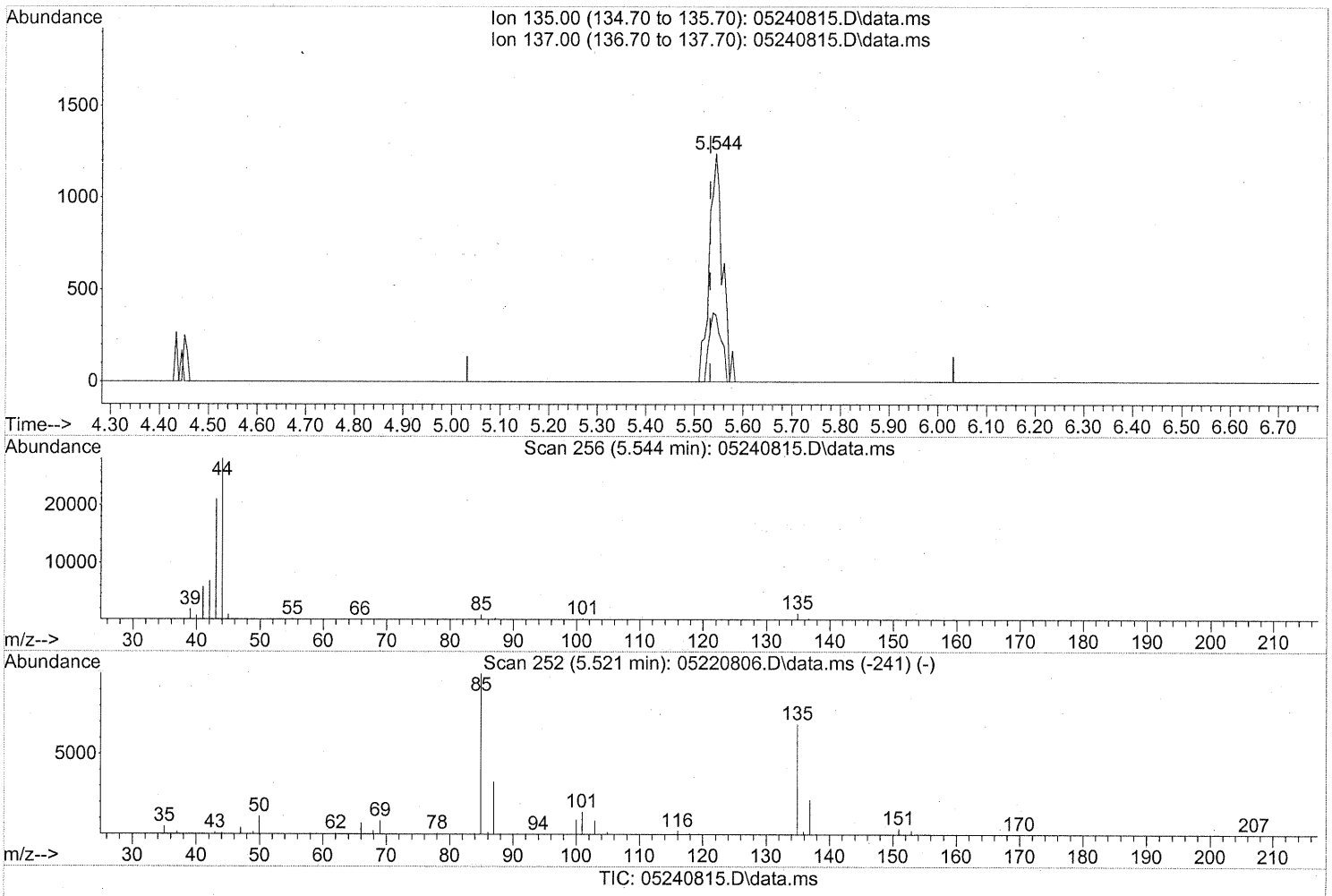
Ion	Exp%	Act%
50.00	100	100
52.00	33.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

330

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(5) Freon 114 (T)

5.544min (+0.011) 0.06ng

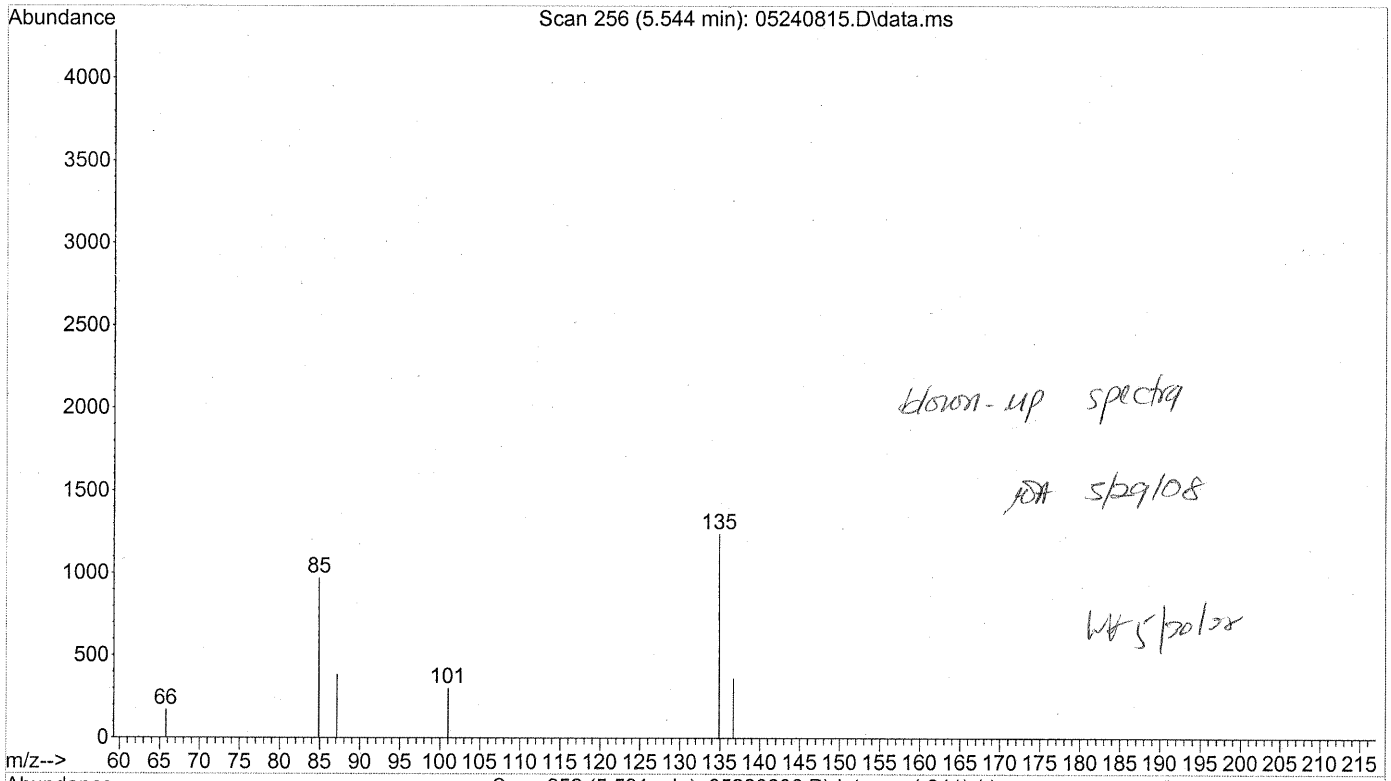
response 2295

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	27.71
0.00	0.00	0.00
0.00	0.00	0.00

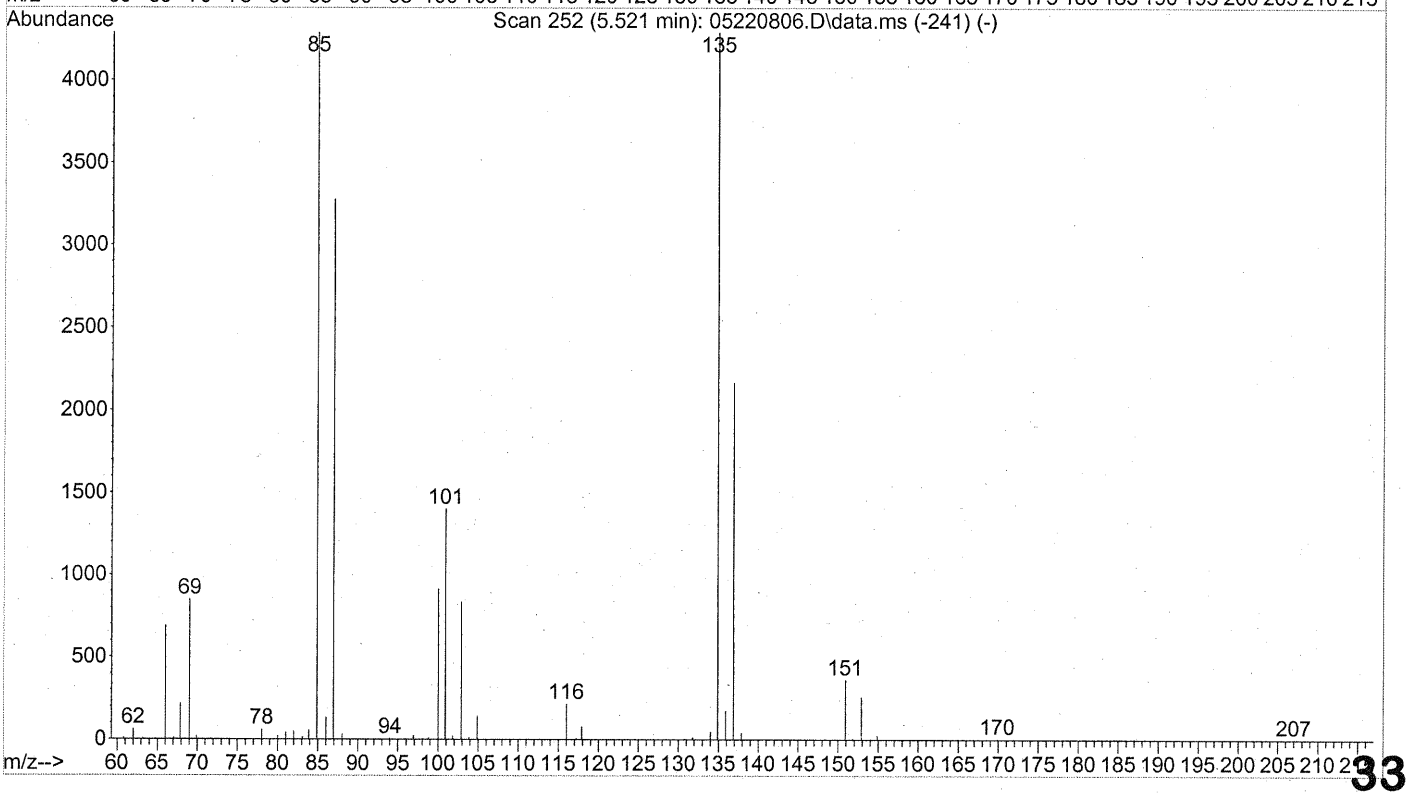
see blown-up spectra

331

File :J:\MS13\DATA\2008_05\24\05240815.D
Operator : WA
Acquired : 24 May 2008 16:42 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-006 (1000ml)
Misc Info : ENSR SG88B-05 (-3.7, 3.7)
Vial Number: 12



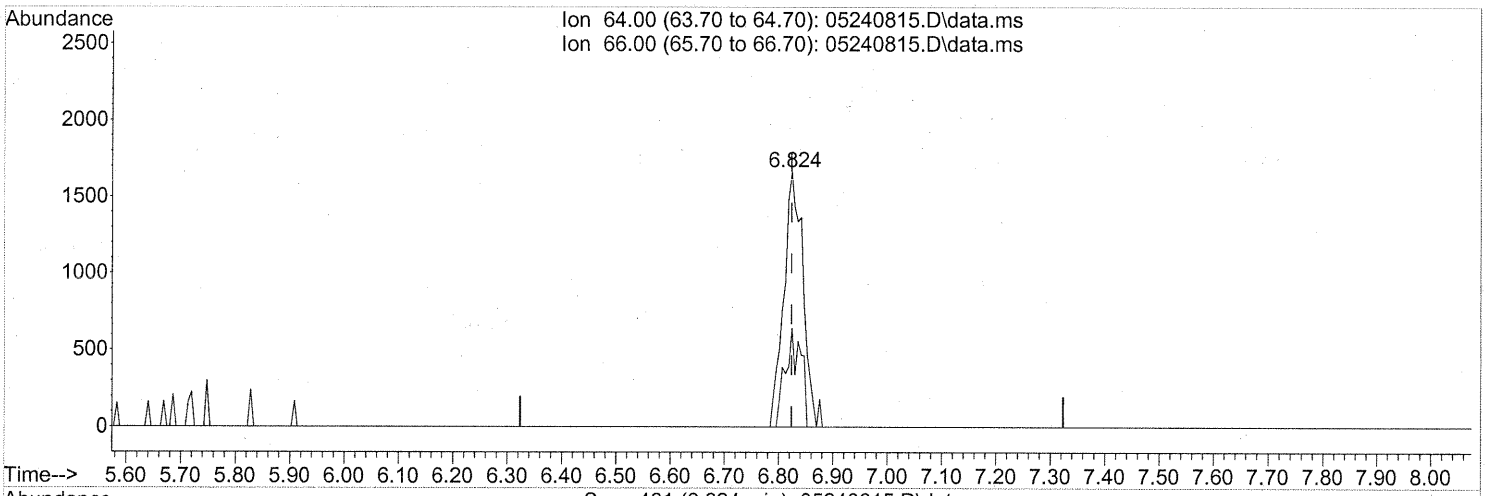
Horizon-up spectra
for 5/29/08
WA 5/30/08

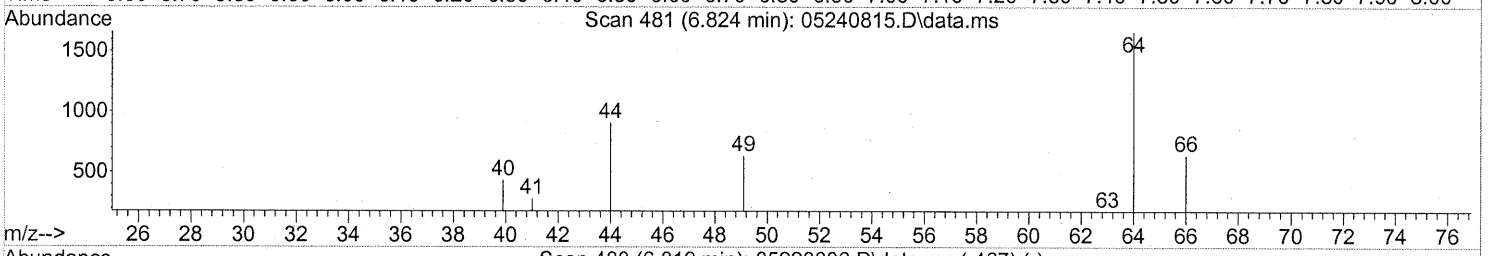


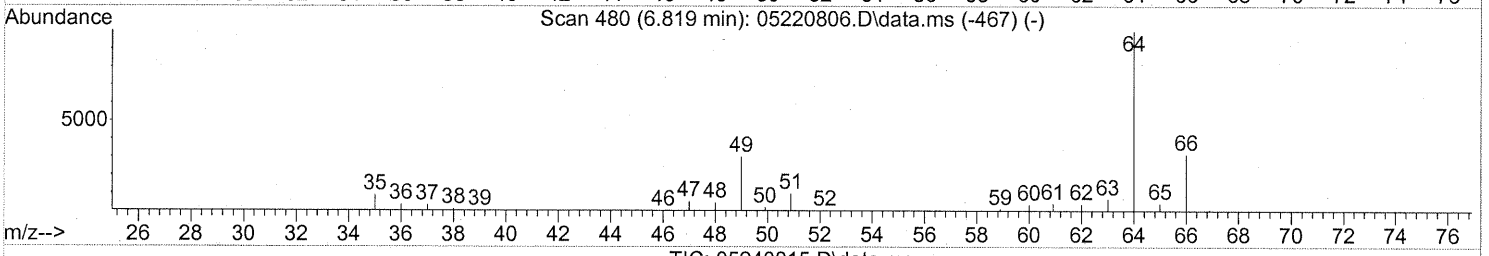
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(9) Chloroethane (T)

6.824min (0.000) 0.17ng

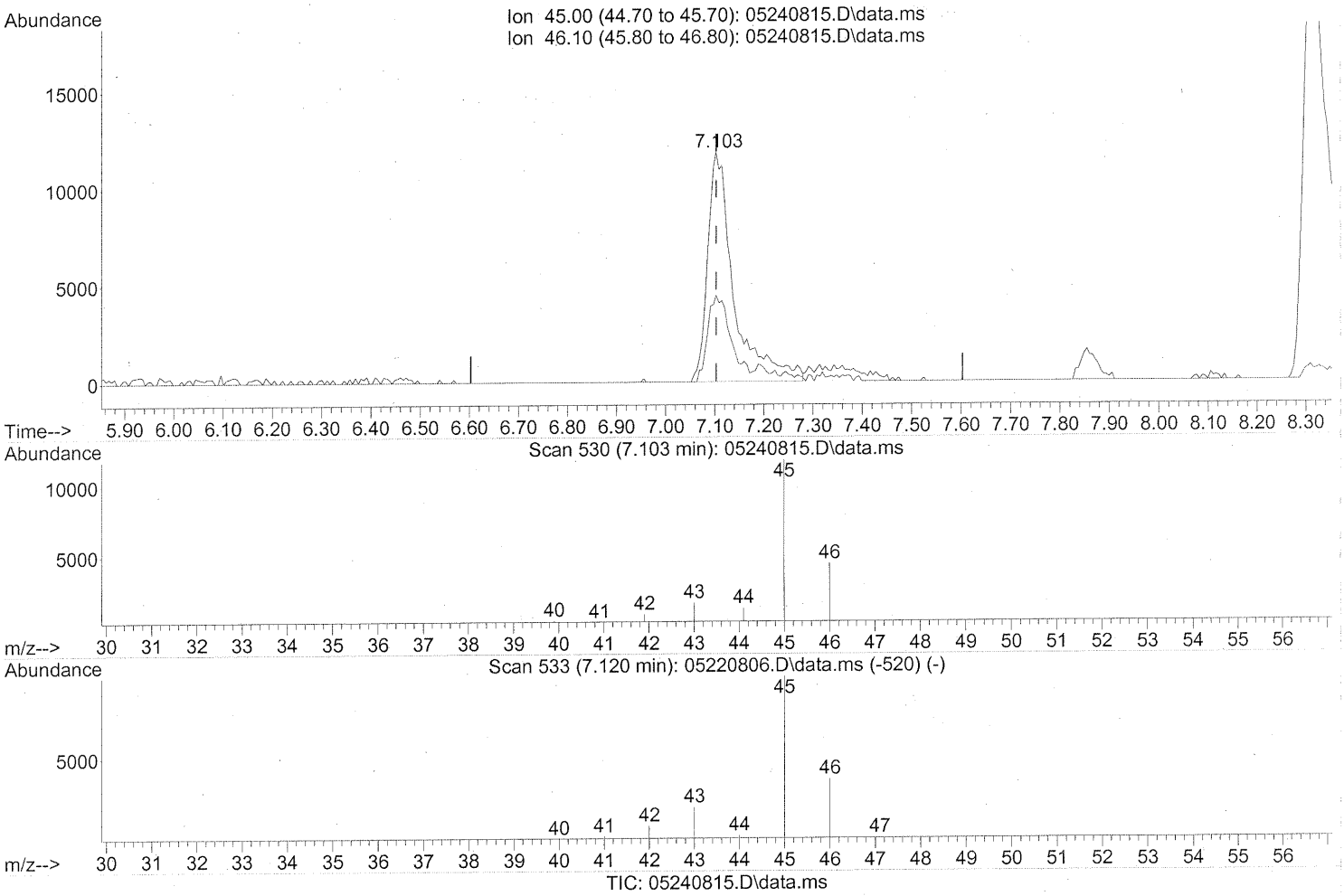
response 4011

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	31.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA 4
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 1.54ng

response 43803

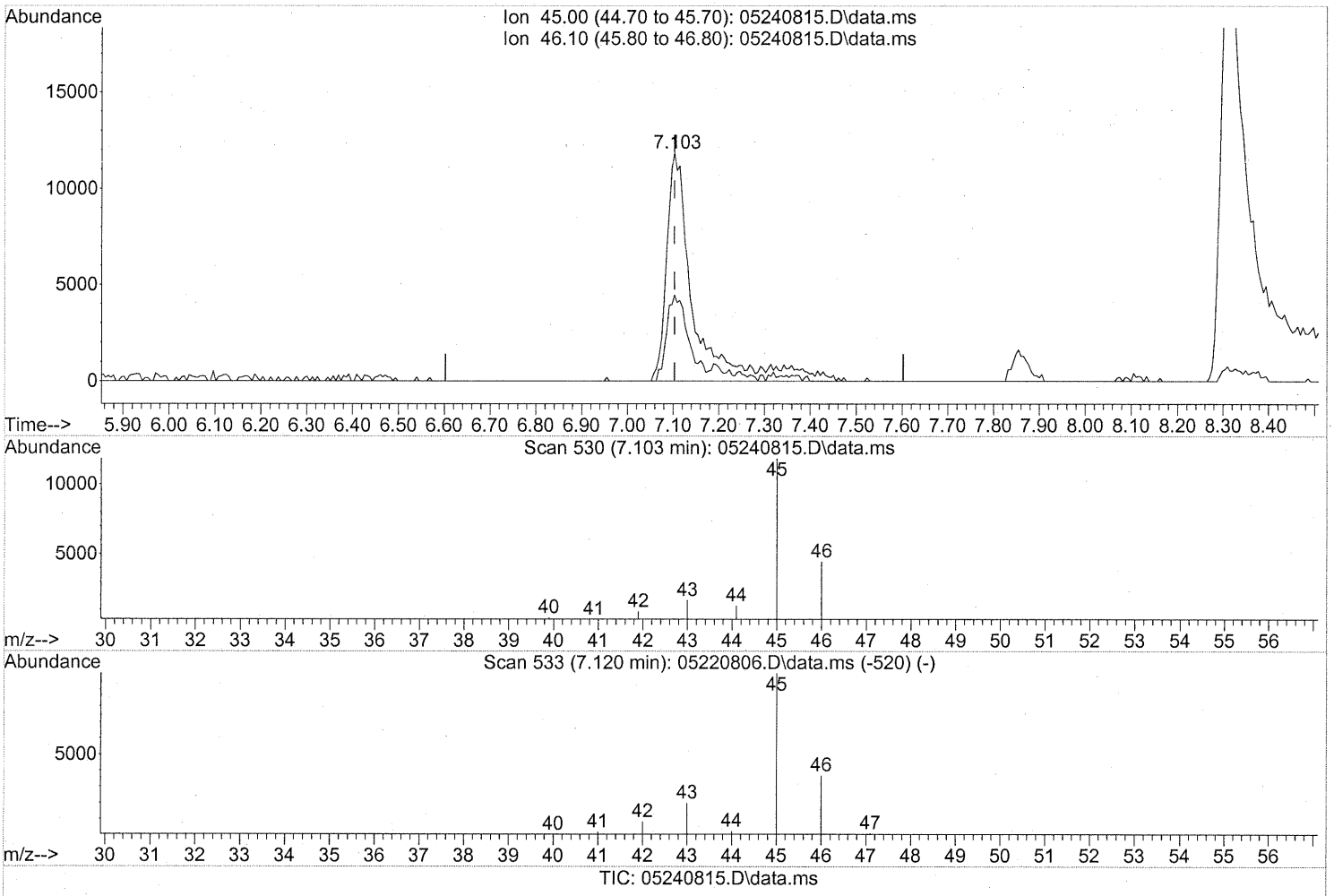
failing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 1.73ng m

response 49217

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.69
0.00	0.00	0.00
0.00	0.00	0.00

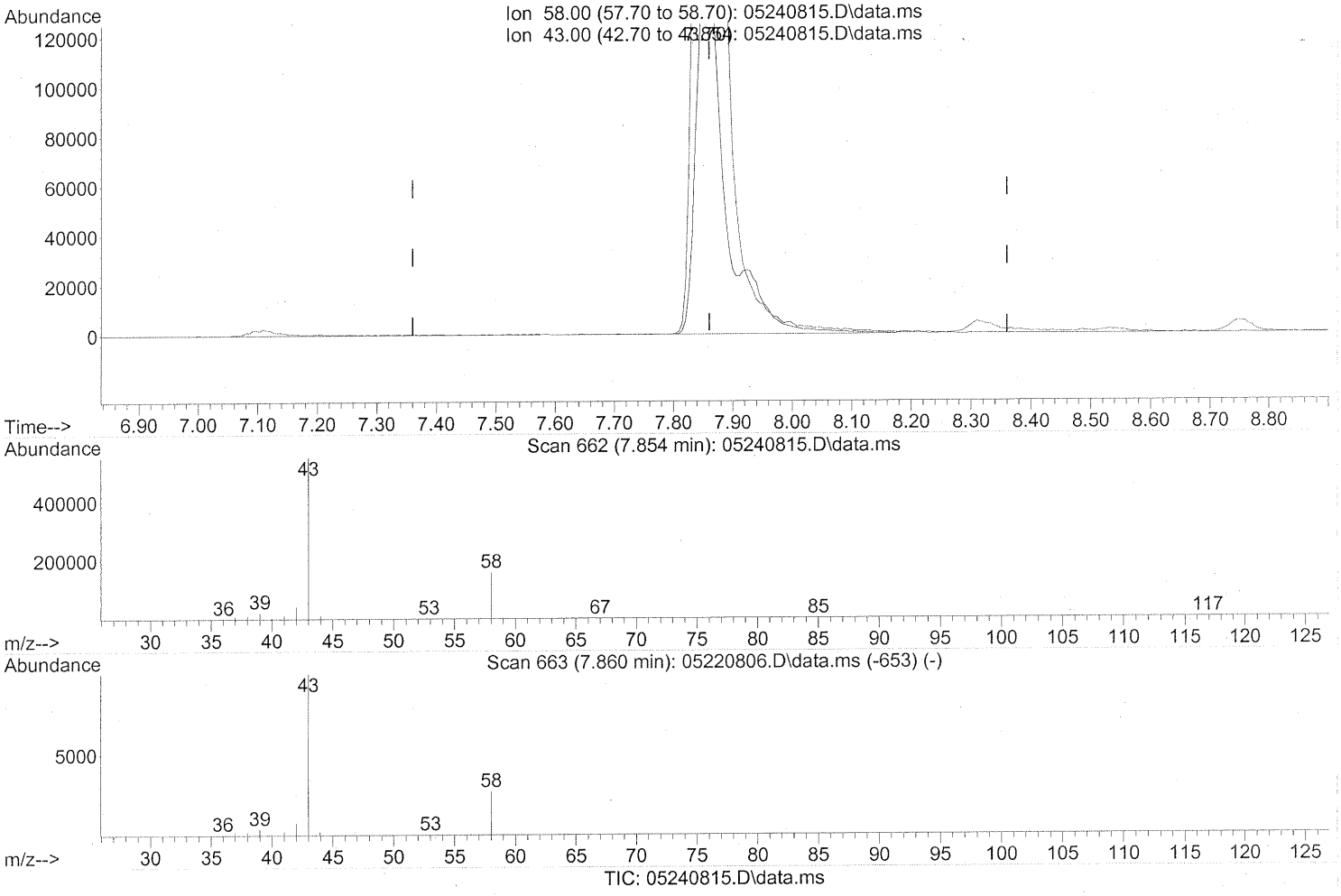
added tailing
JSH 5/29/08
WA 5/30/08

335

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA 4
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(13) Acetone (T)

7.854min (-0.006) 17.47ng

response 509649

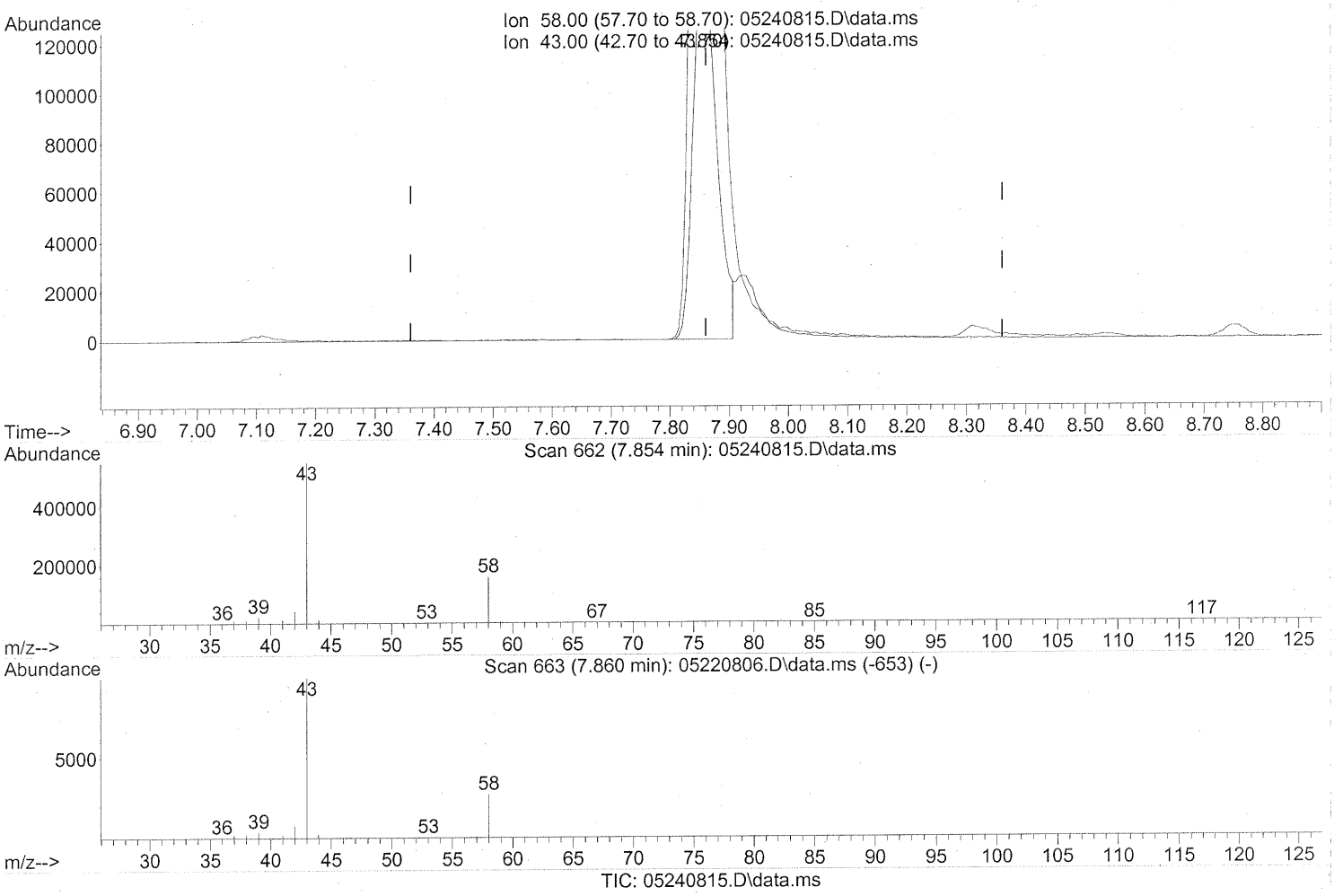
interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	308.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA 4
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(13) Acetone (T)

7.854min (-0.006) 14.57ng m

response 425011

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	369.53#
0.00	0.00	0.00
0.00	0.00	0.00

10% shoulder

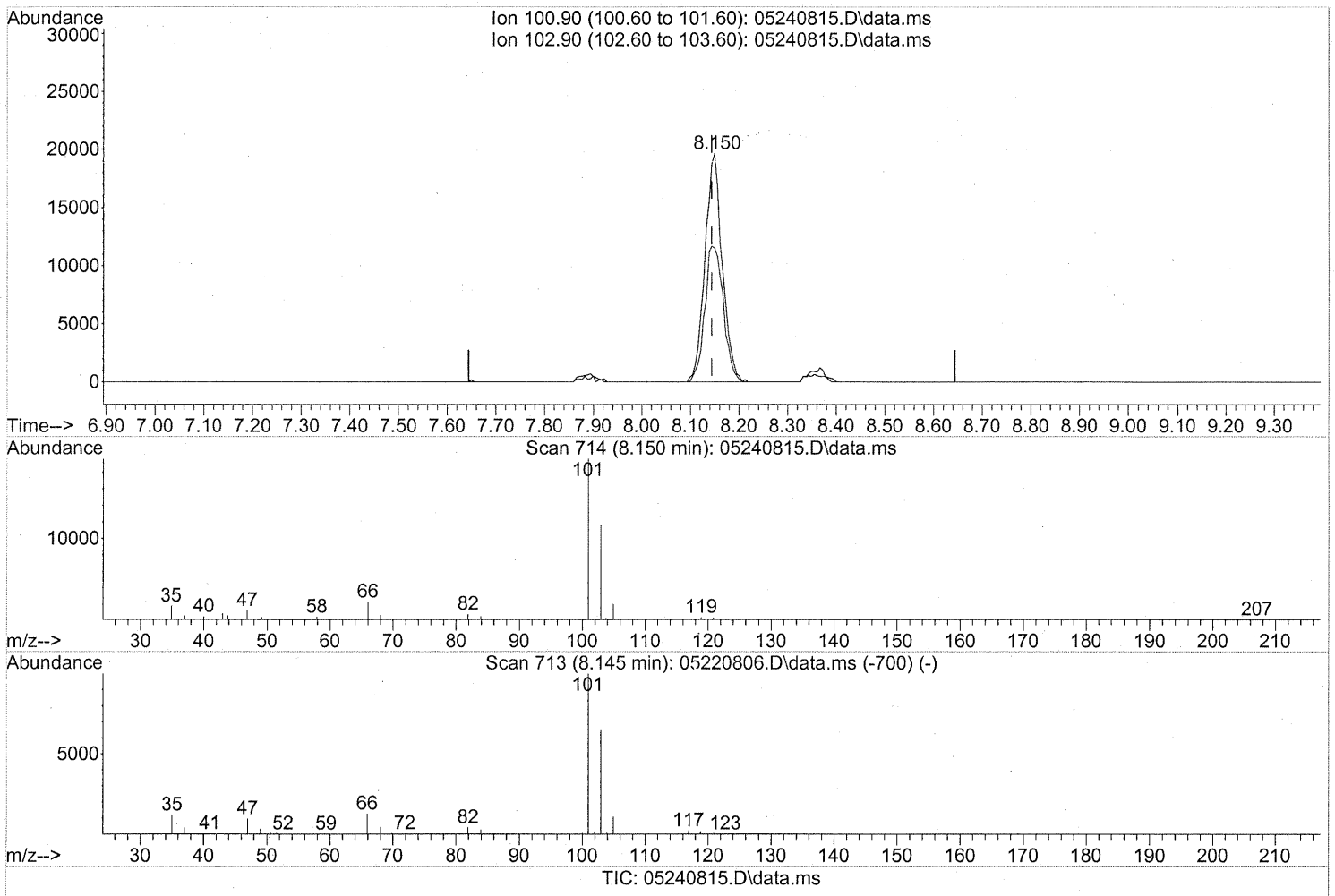
MM 5/29/08

WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.71ng

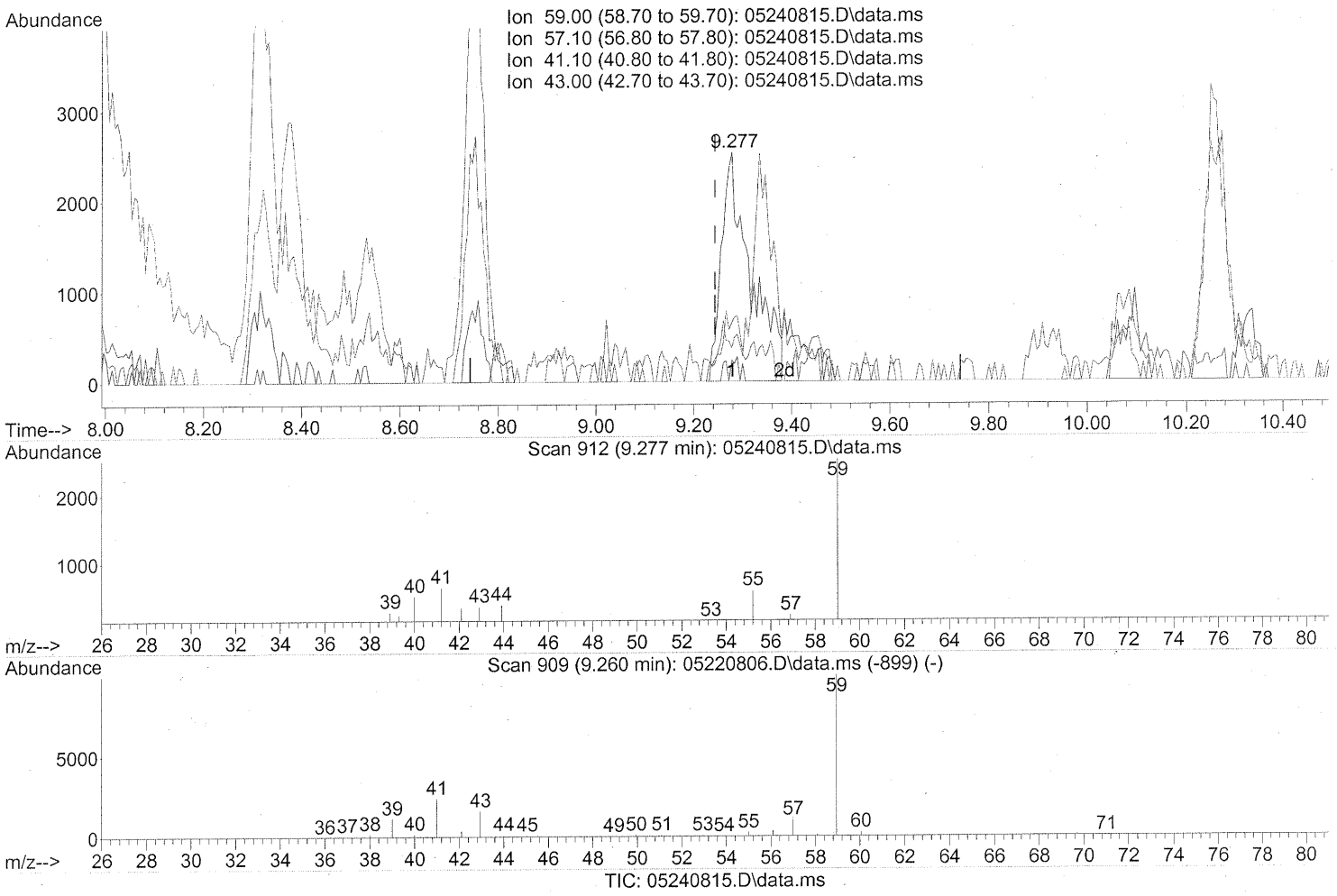
response 48221

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.13ng

response 10466

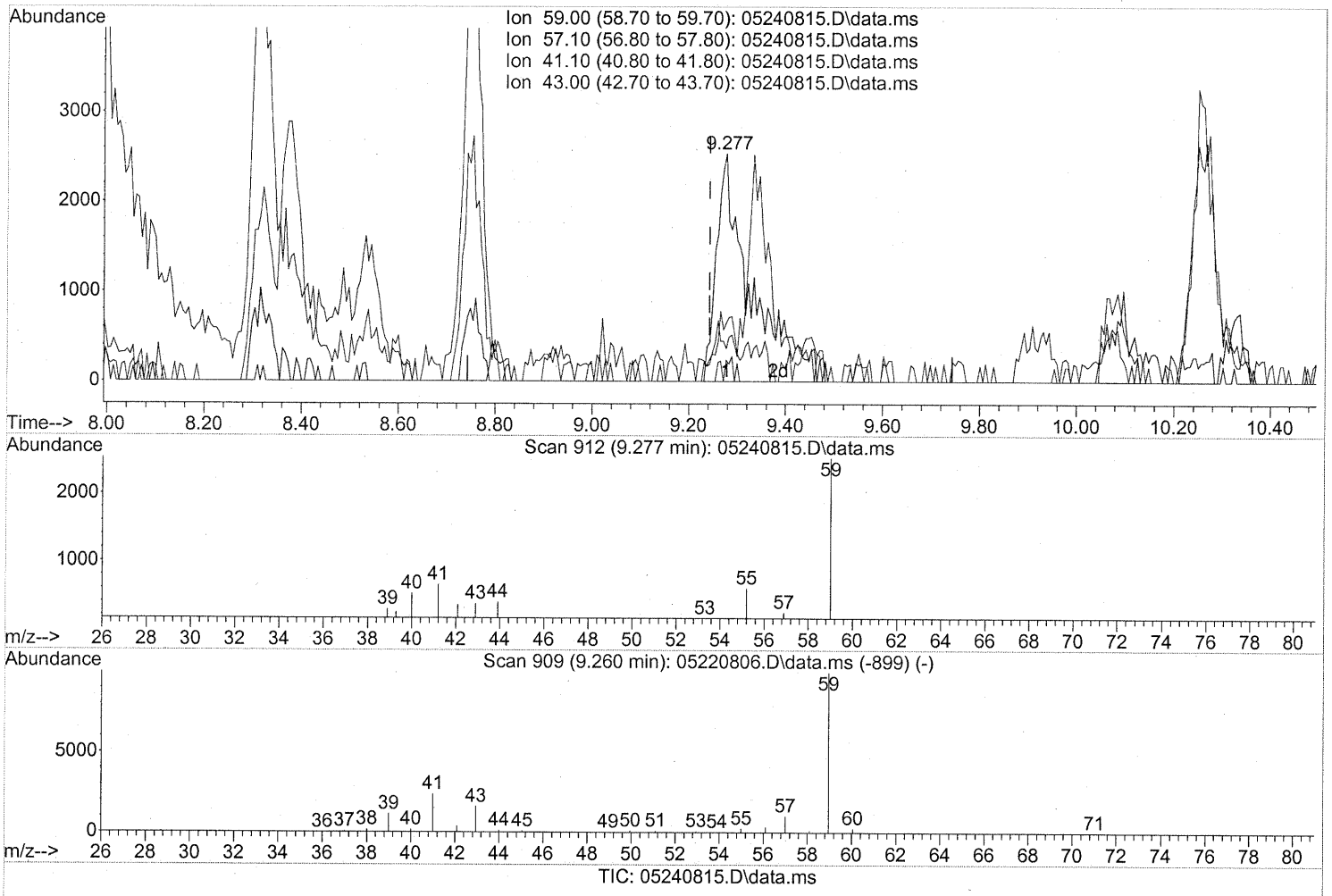
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.94
41.10	20.10	0.00#
43.00	12.30	0.00

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.16ng m

response 12748

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.42
41.10	20.10	0.00#
43.00	12.30	0.00

int. whole peaks

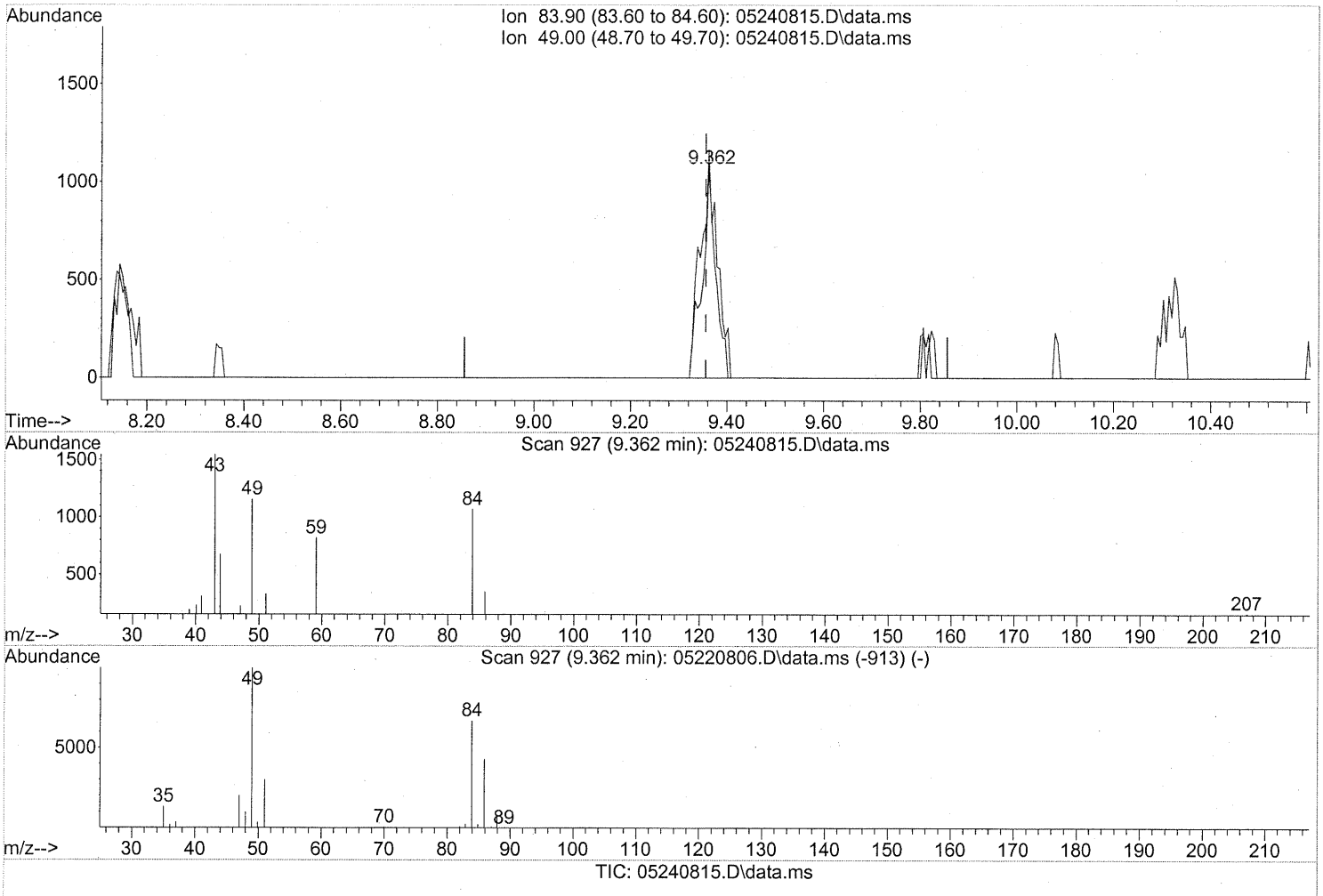
DA 5/29/08

LA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.06ng

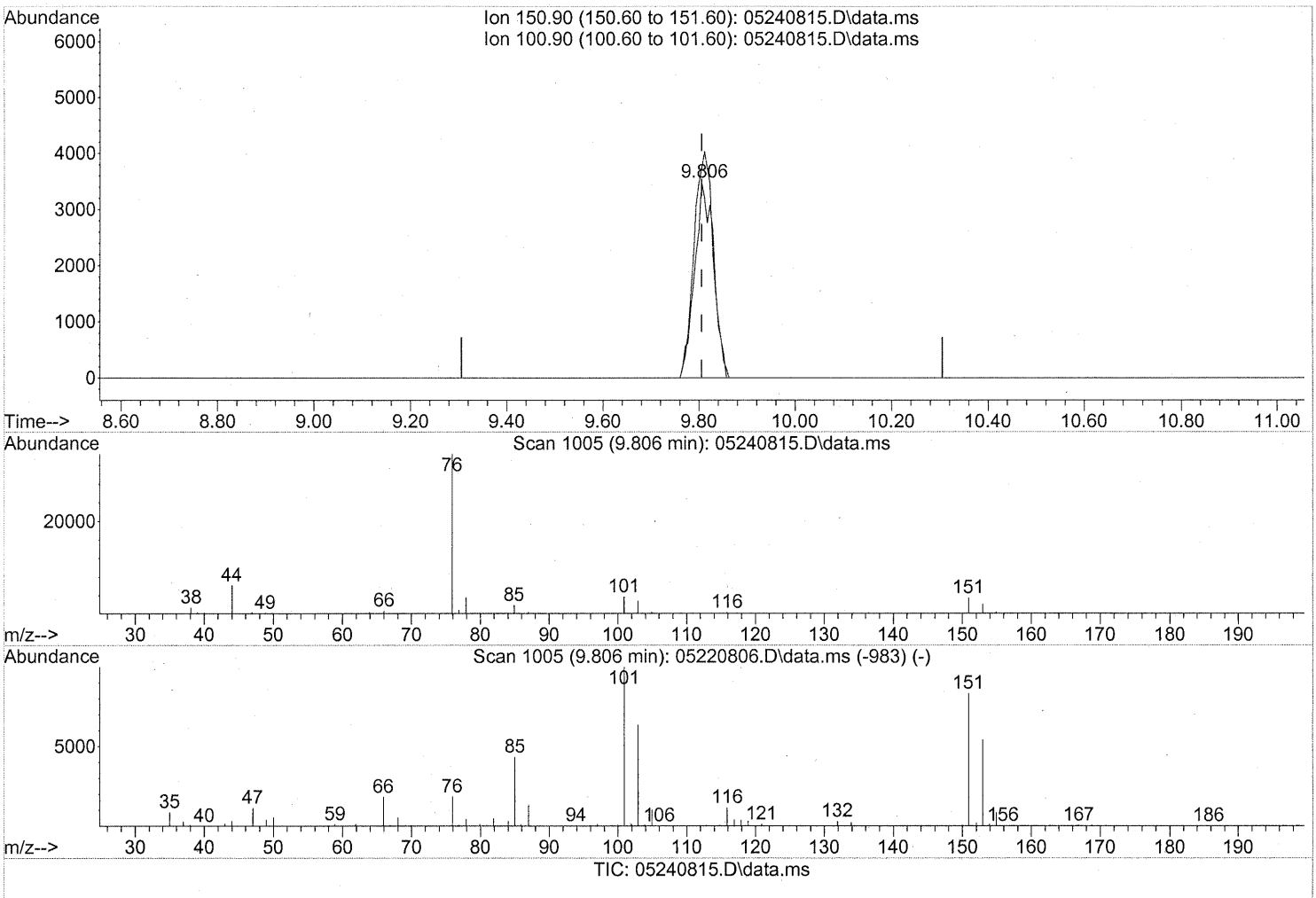
response 2090

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	133.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.31ng

response 9541

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.97
0.00	0.00	0.00
0.00	0.00	0.00

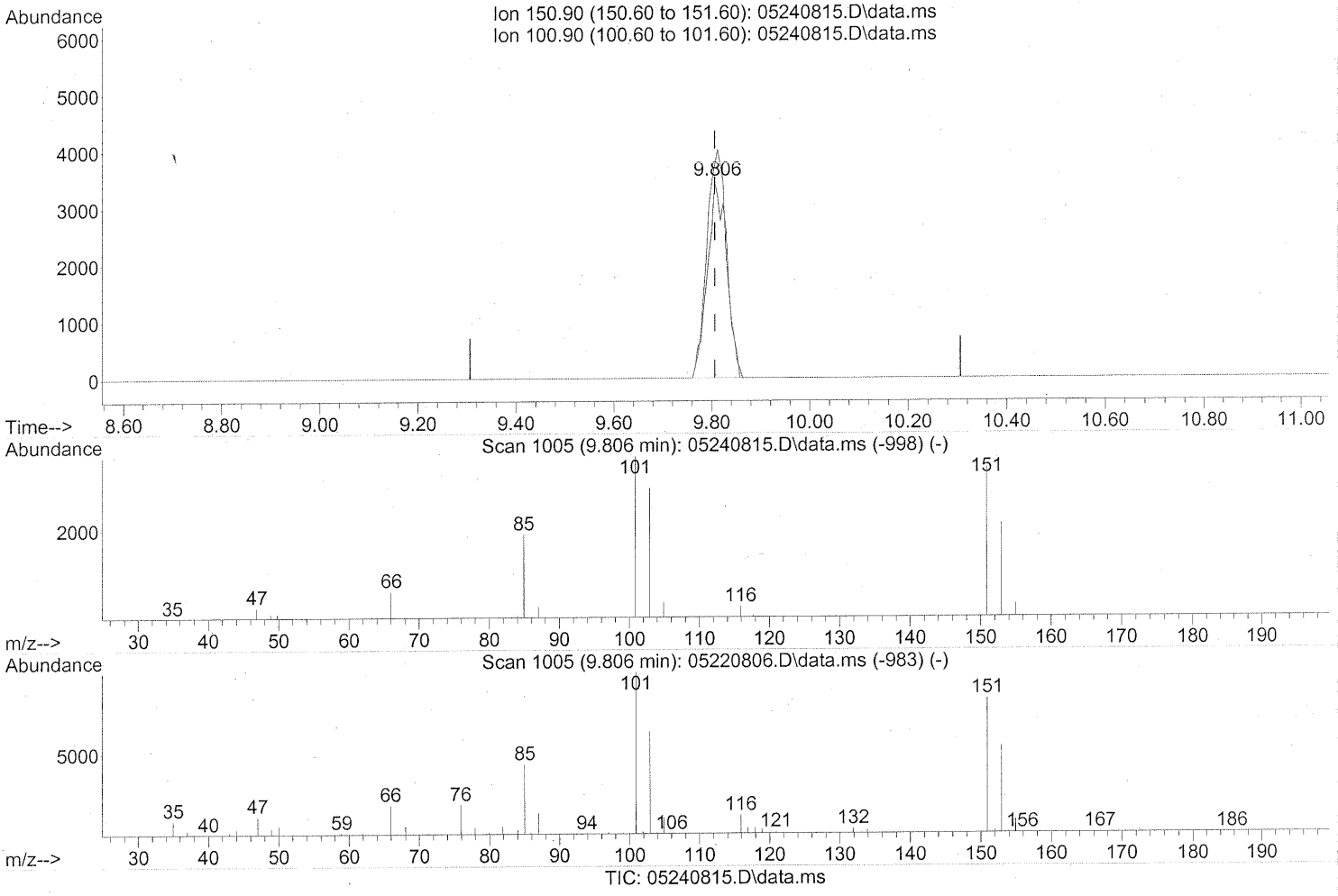
before

342

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA 4
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.31ng

response 9541

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.97
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

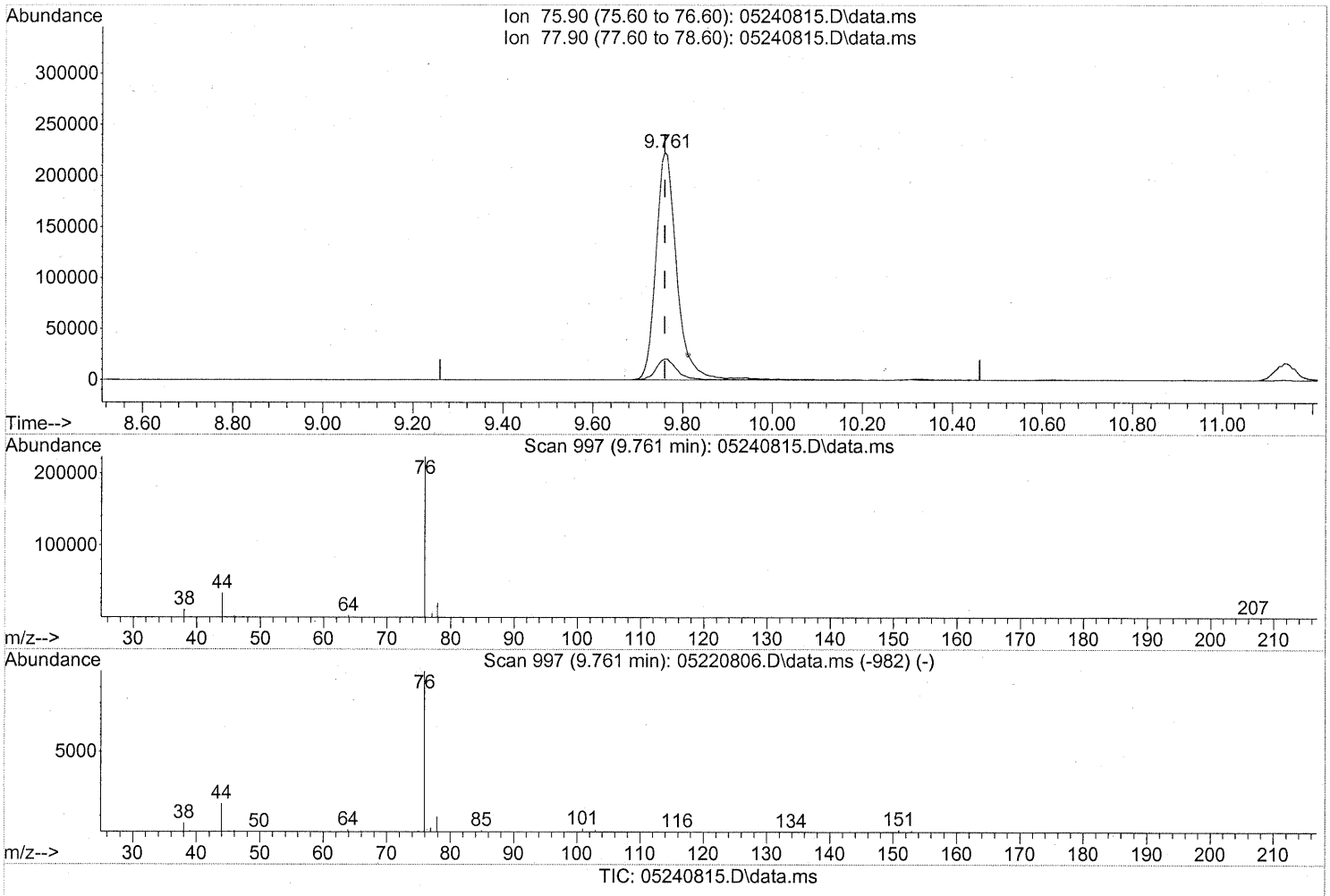
JDH 5/29/08

WH 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(22) Carbon Disulfide (T)

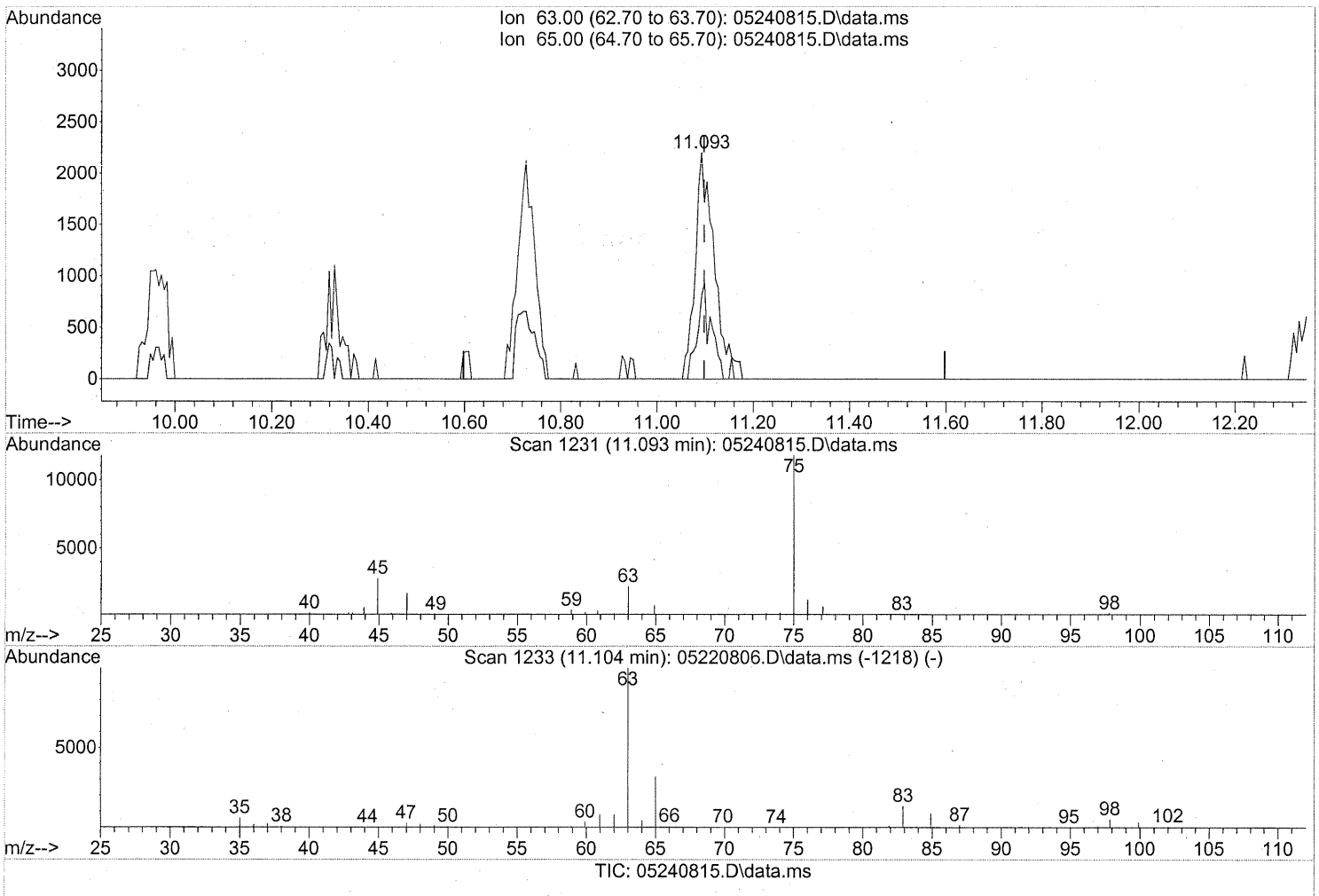
9.761min (-0.000) 5.76ng

response 712515

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.03
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(24) 1,1-Dichloroethane (T)

11.093min (-0.006) 0.11ng

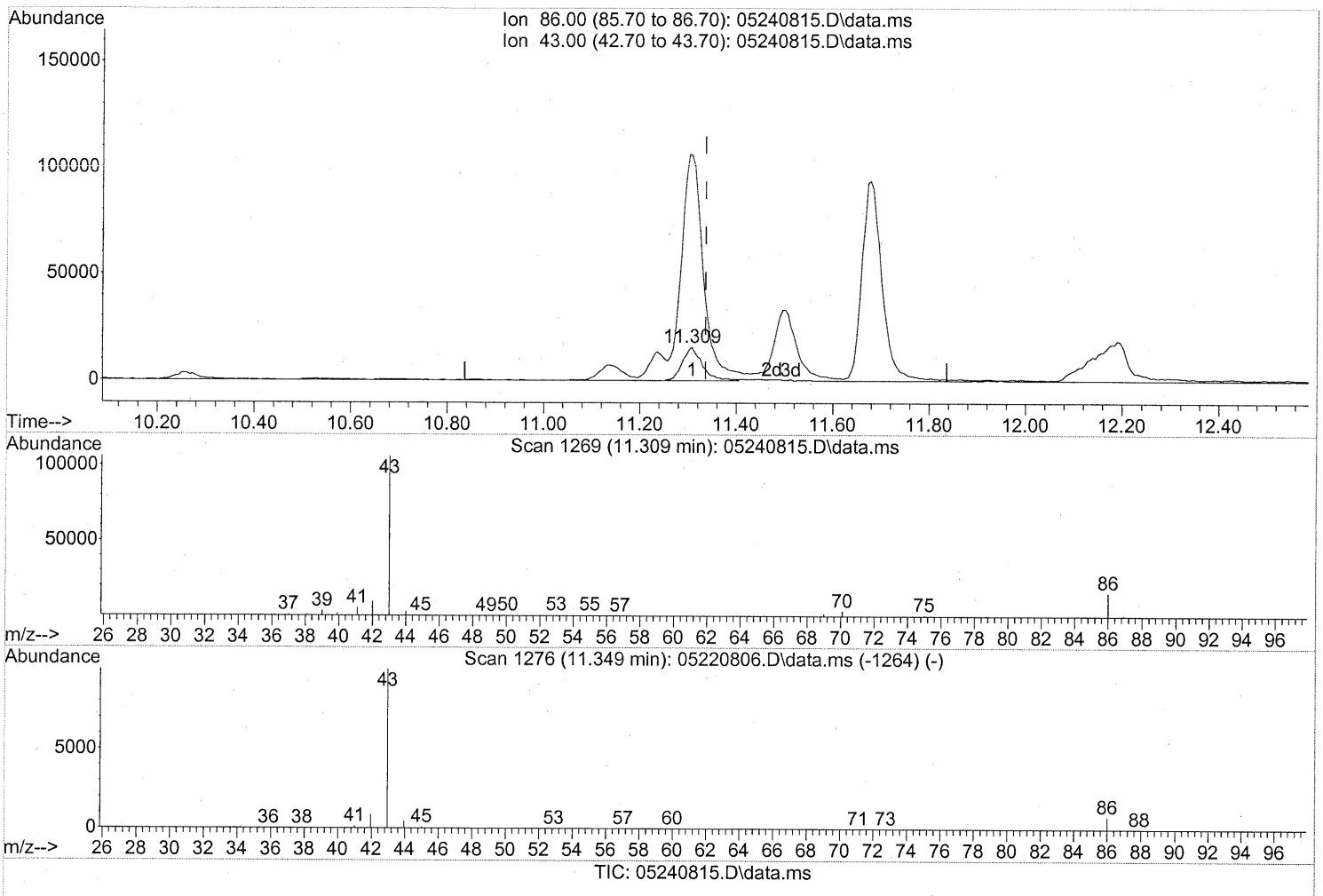
response 6019

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	29.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(26) Vinyl Acetate (T)

11.309min (-0.028) 8.22ng

response 44319

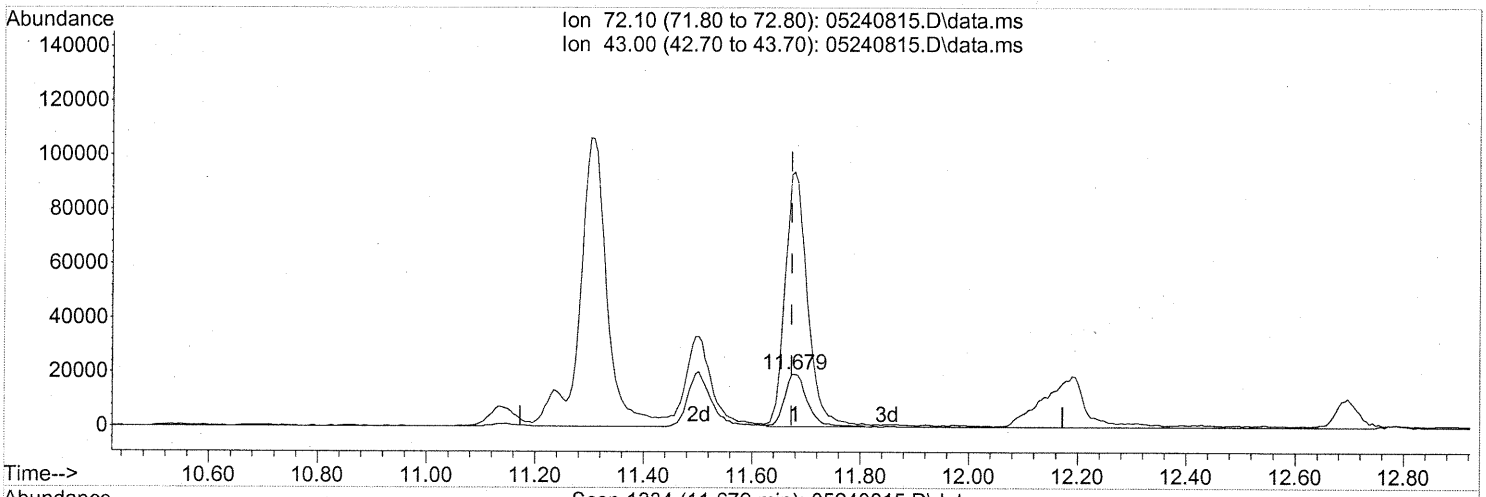
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	767.67#
0.00	0.00	0.00
0.00	0.00	0.00

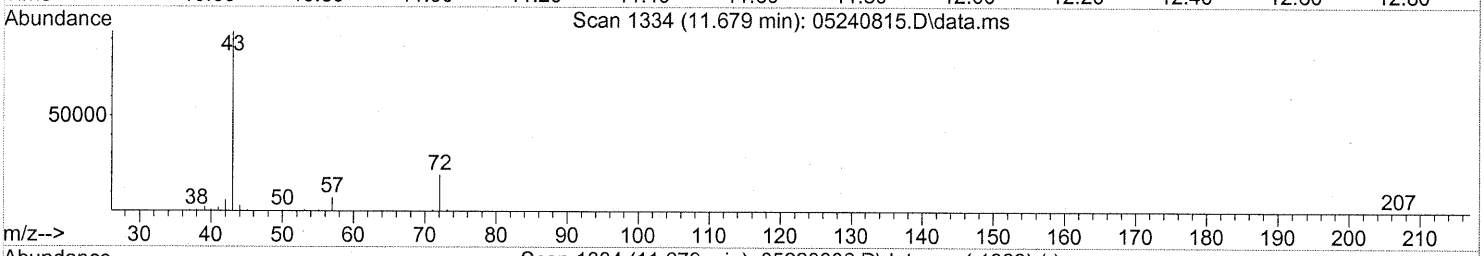
346

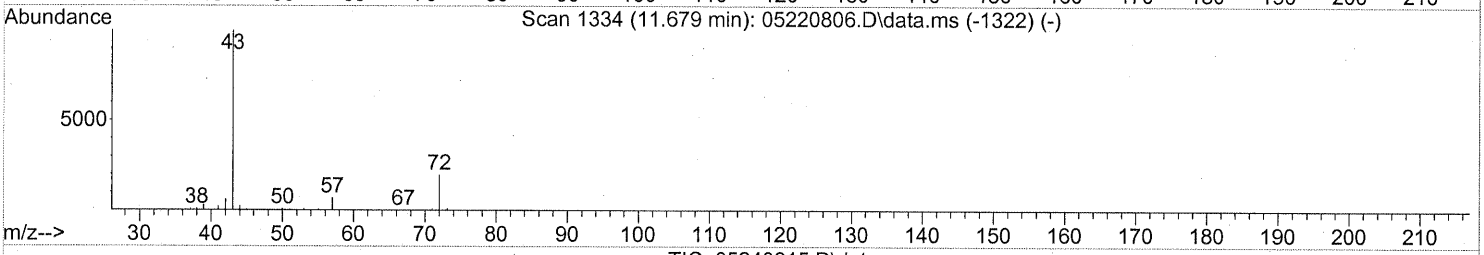
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 2.64ng

response 56241

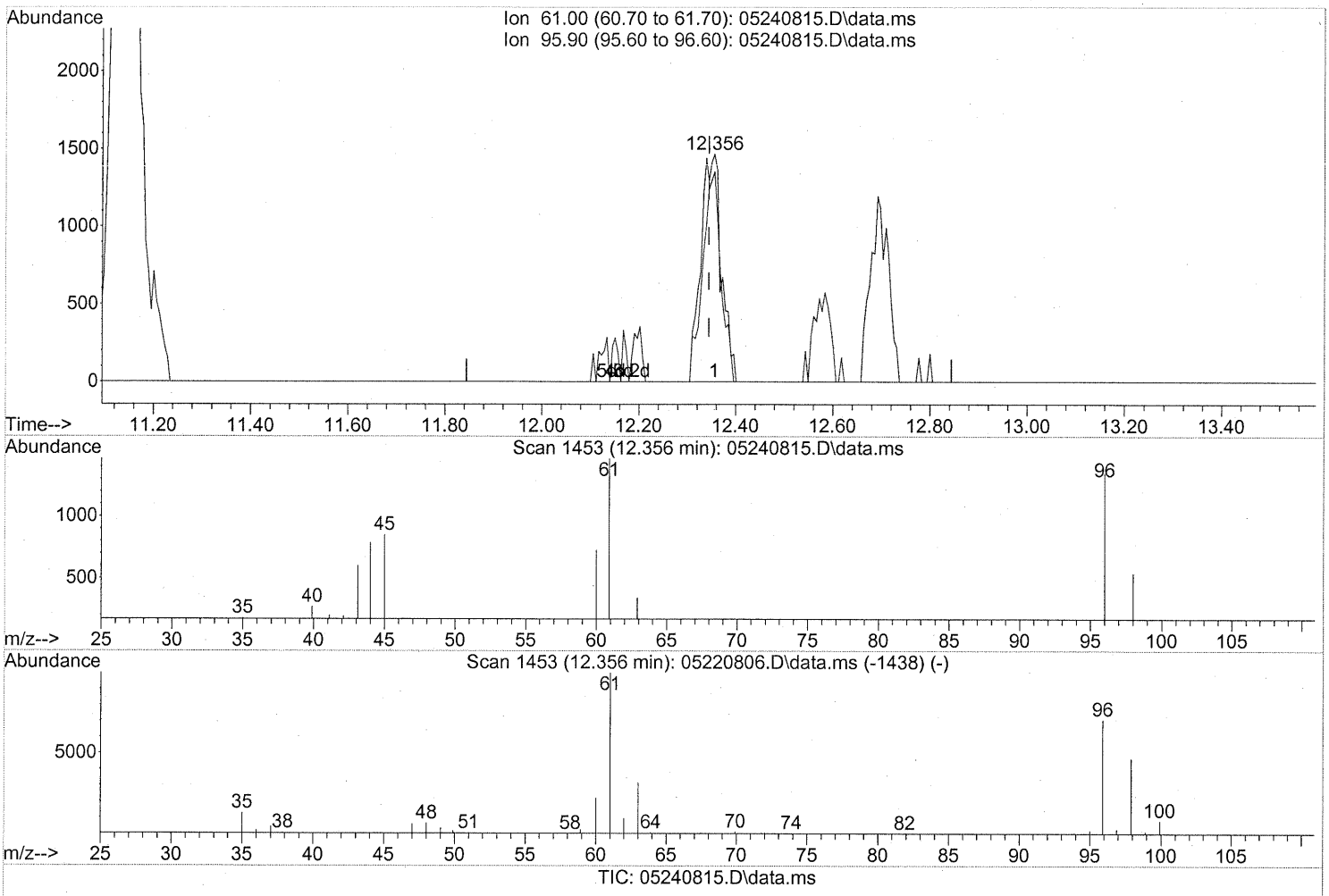
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	472.96#
0.00	0.00	0.00
0.00	0.00	0.00

347

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(28) cis-1,2-Dichloroethene (T)

12.356min (+0.011) 0.09ng

response 4346

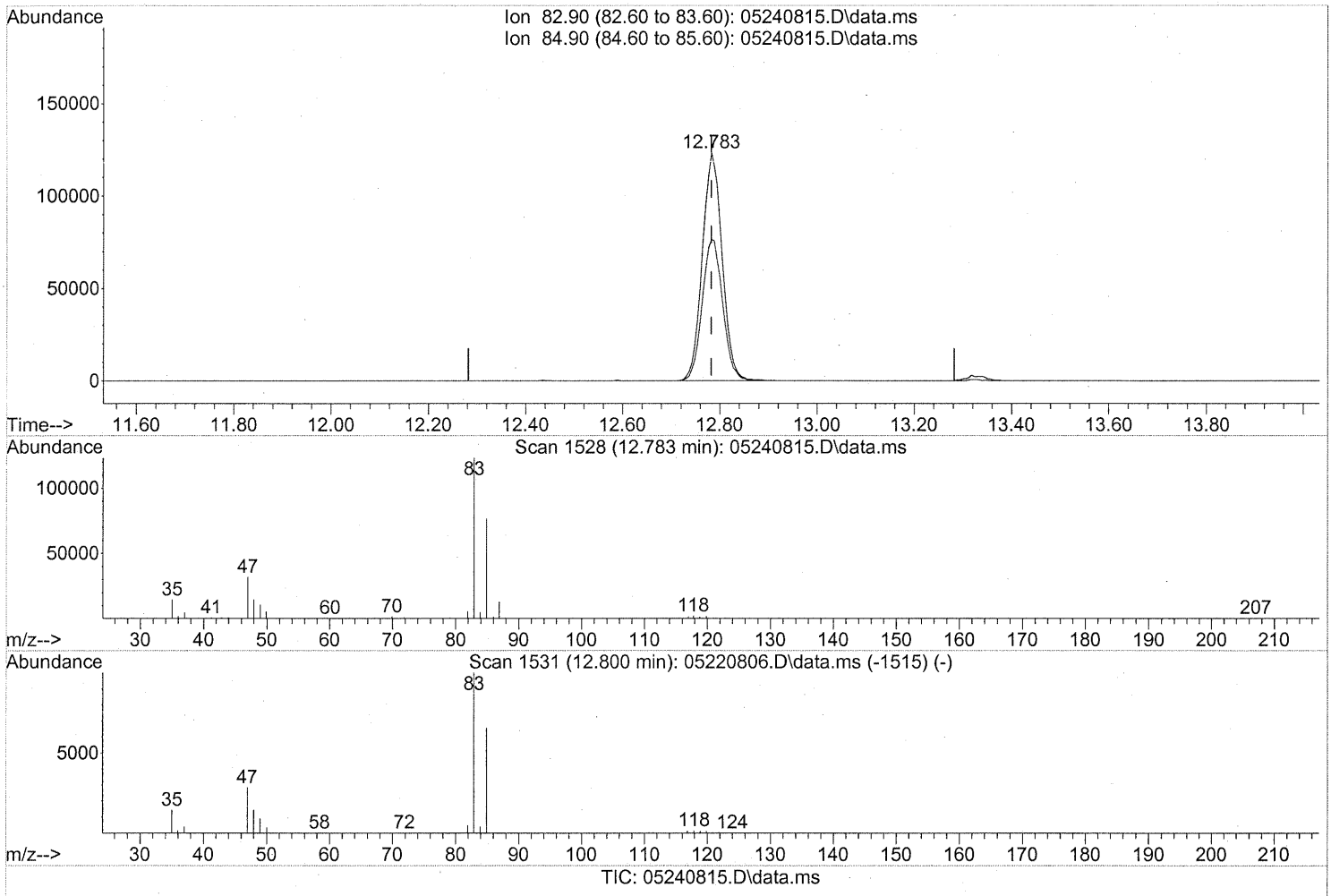
Ion	Exp%	Act%
61.00	100	100
95.90	59.60	81.73#
0.00	0.00	0.00
0.00	0.00	0.00

348

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(32) Chloroform (T)

12.783min (0.000) 7.02ng

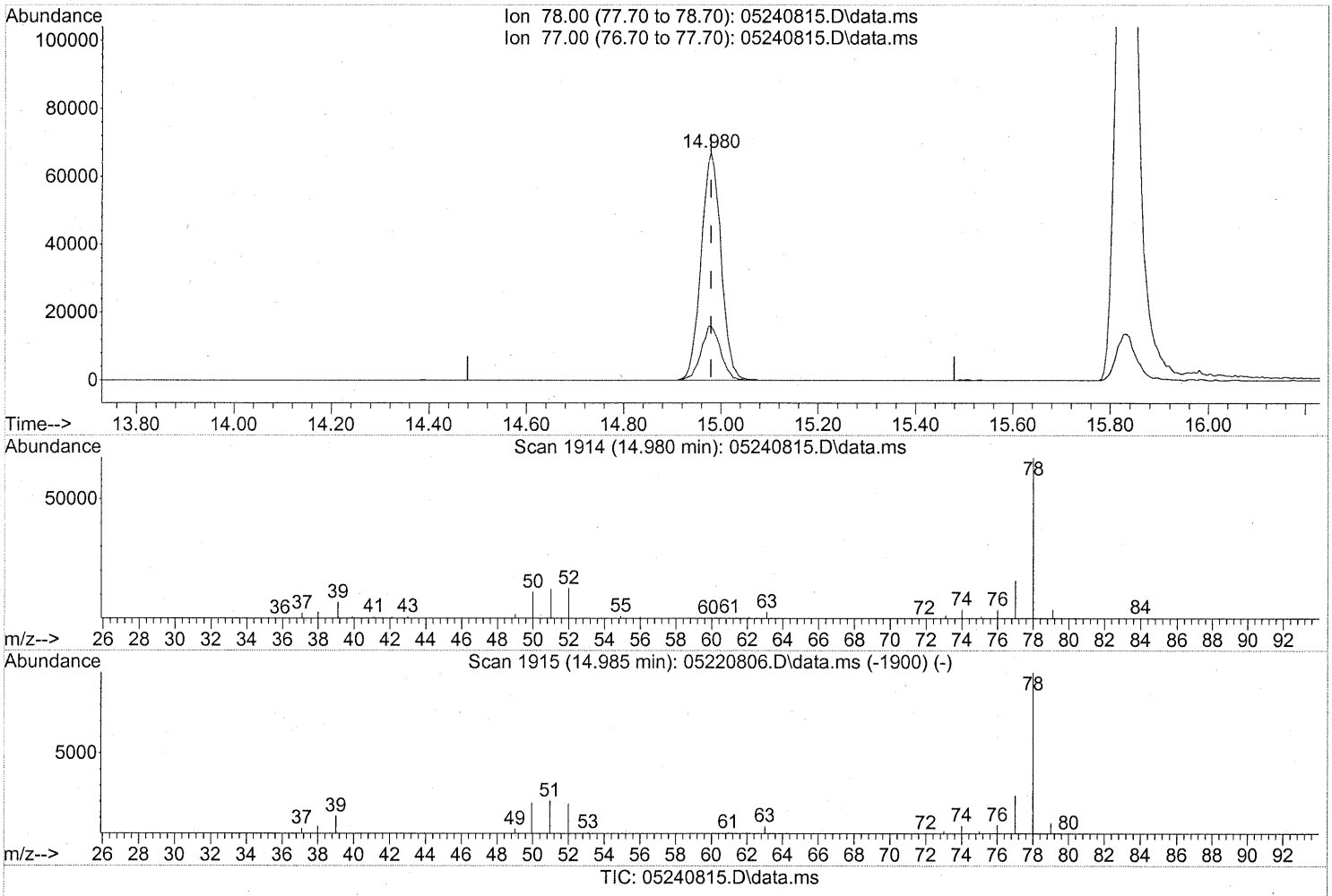
response 346809

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(41) Benzene (T)

14.980min (-0.000) 1.56ng

response 189664

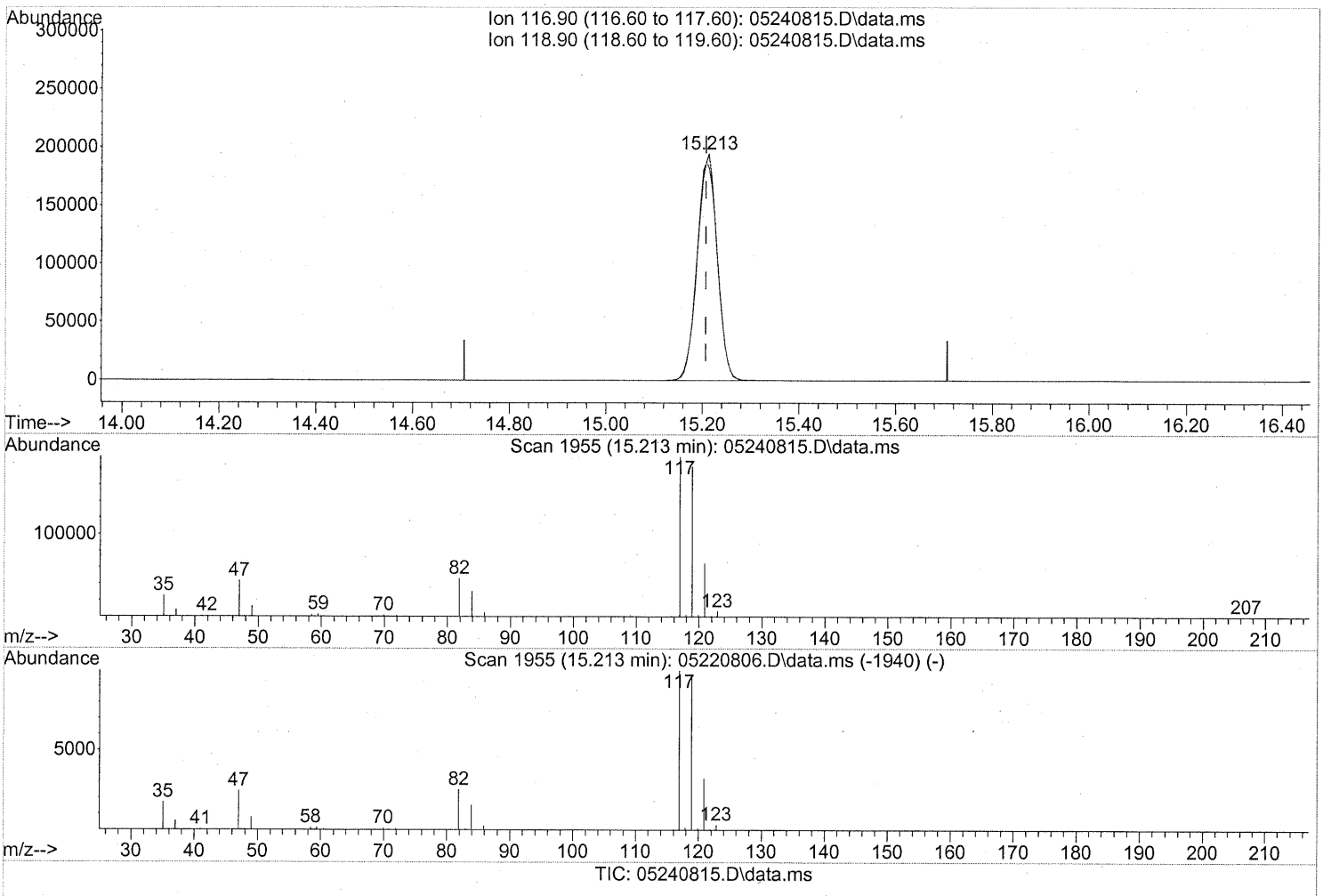
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.23
0.00	0.00	0.00
0.00	0.00	0.00

350

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 11.95ng

response 558464

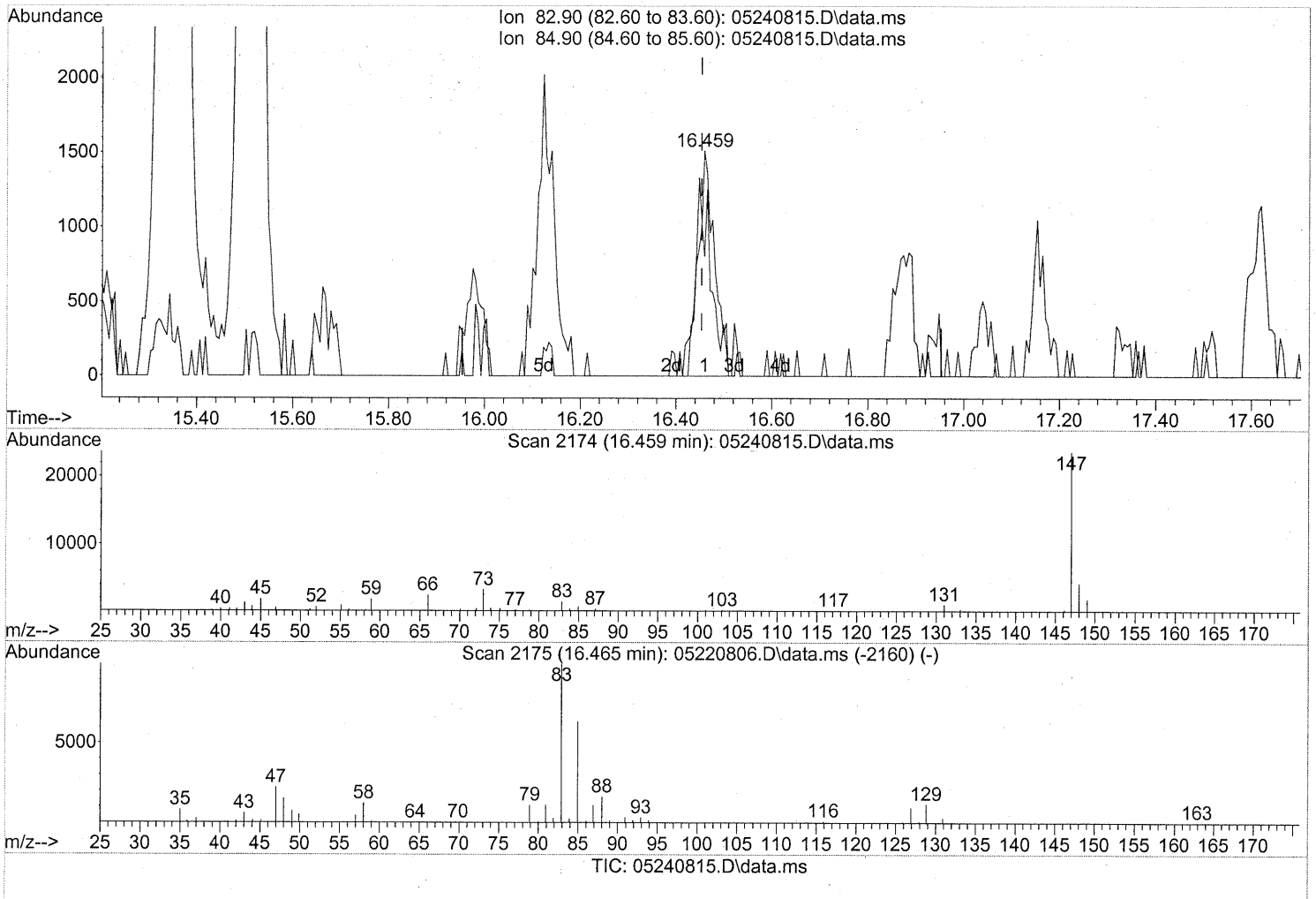
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.13
0.00	0.00	0.00
0.00	0.00	0.00

351

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 0.10ng

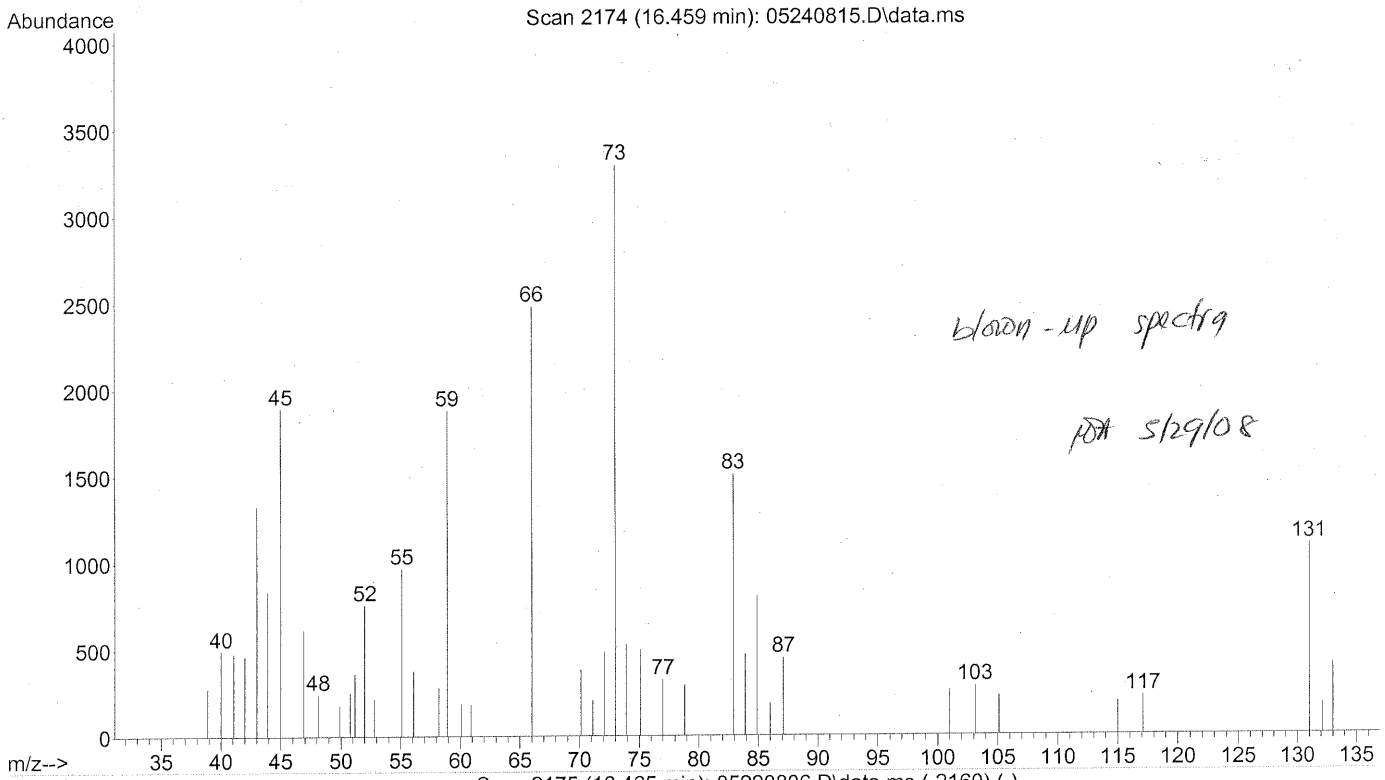
response 3987

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	68.35
0.00	0.00	0.00
0.00	0.00	0.00

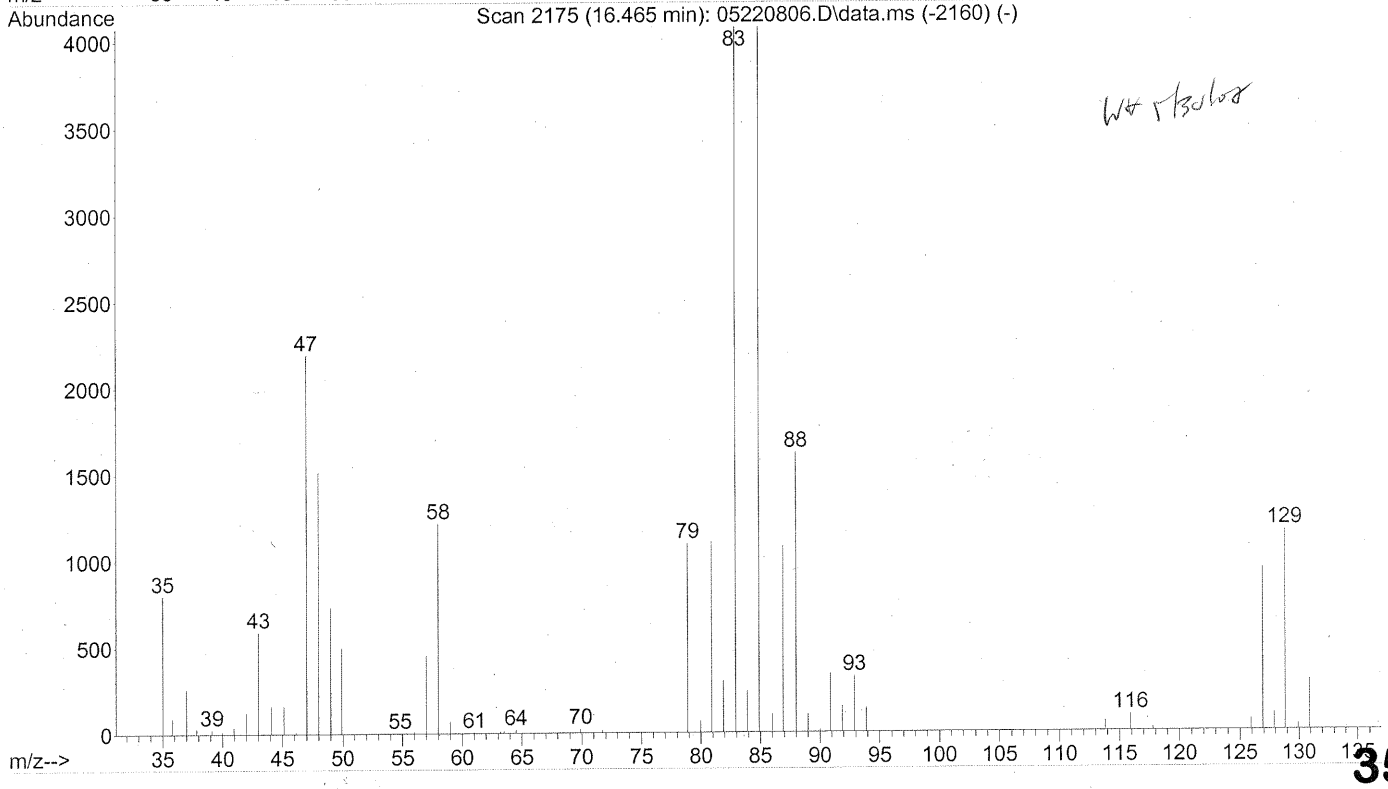
see blown-up spectra

352

File :J:\MS13\DATA\2008_05\24\05240815.D
Operator : WA
Acquired : 24 May 2008 16:42 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-006 (1000ml)
Misc Info : ENSR SG88B-05 (-3.7, 3.7)
Vial Number: 12



Blown-up spectra
KDH 5/29/08

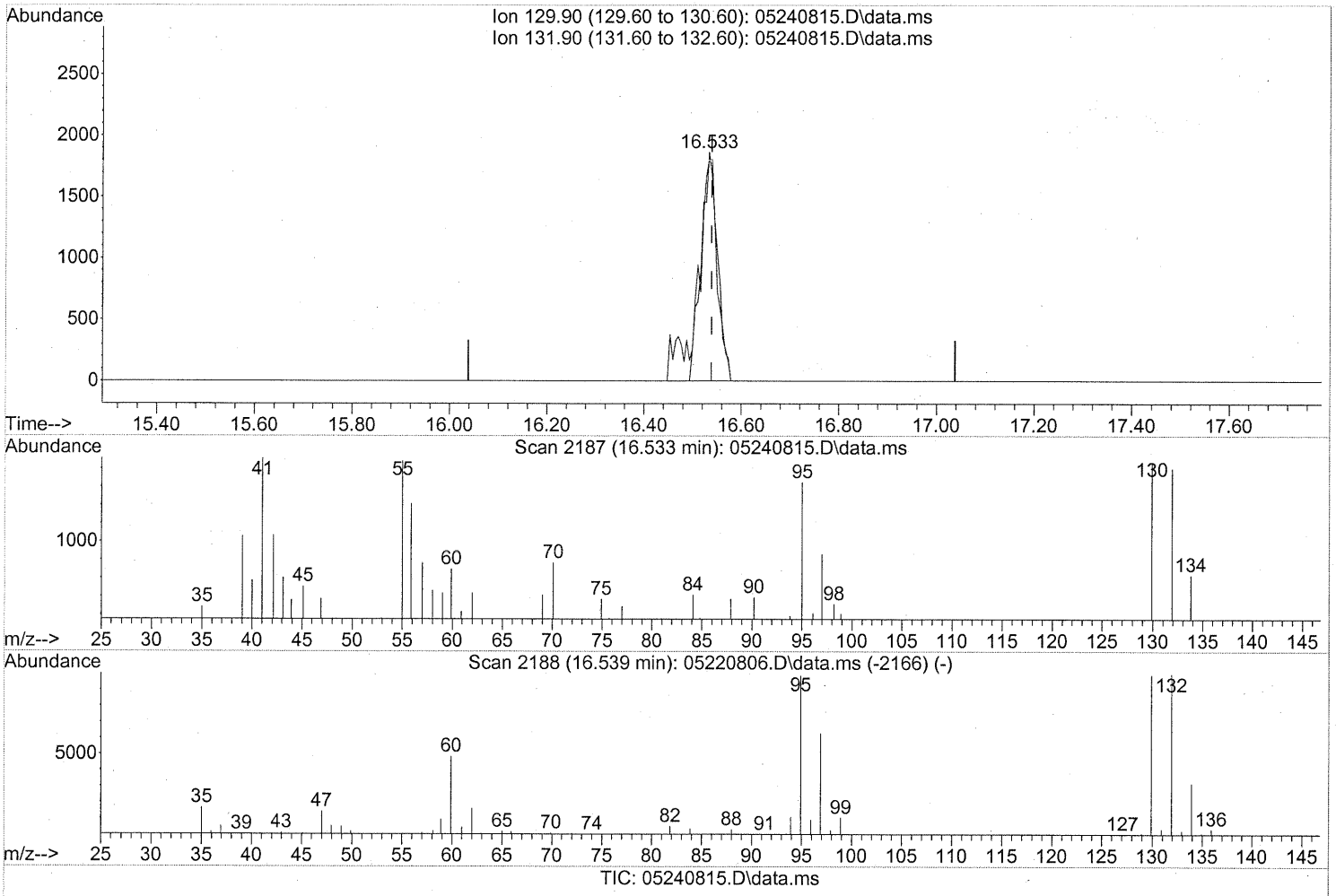


WA Tabular

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.12ng

response 4338

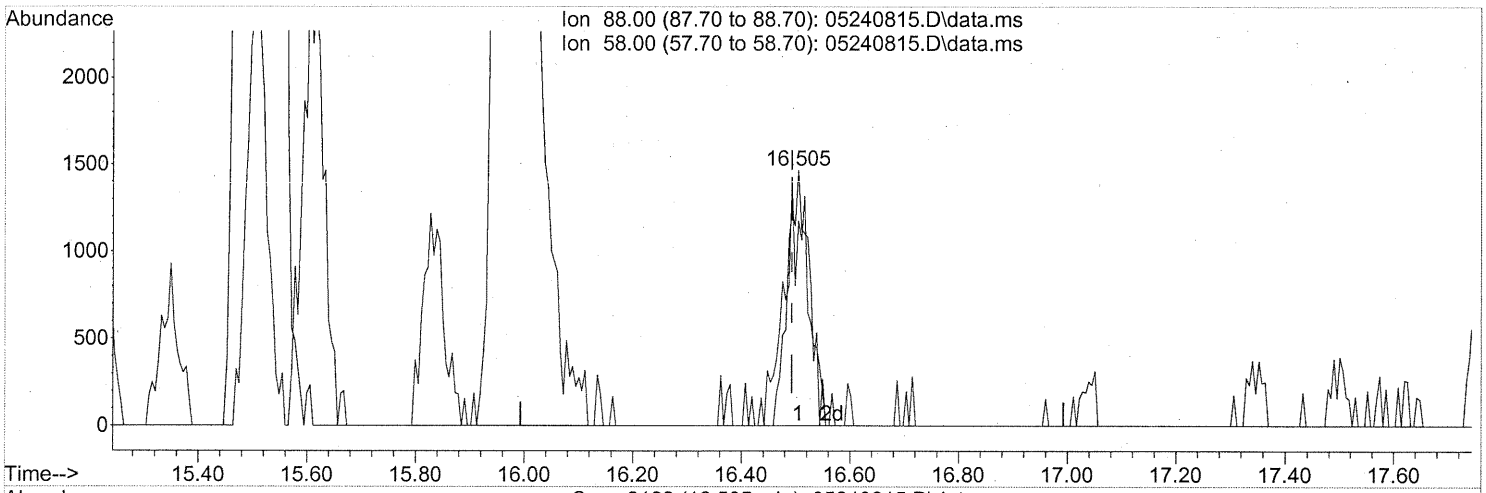
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.68
0.00	0.00	0.00
0.00	0.00	0.00

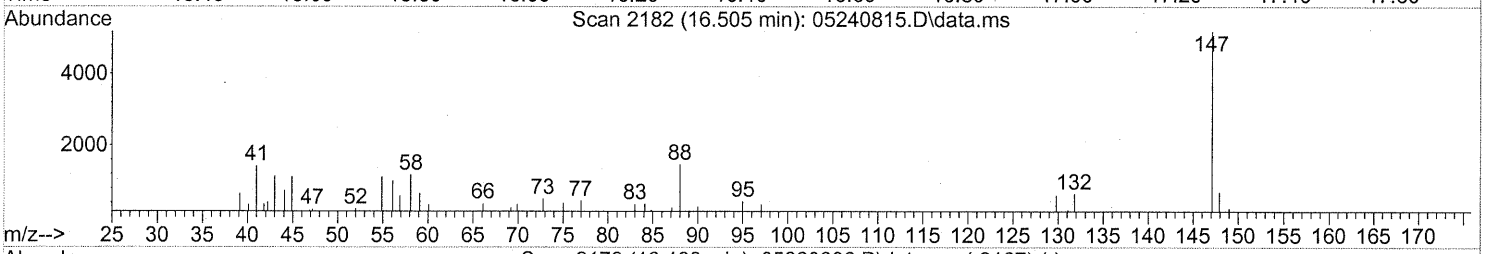
354

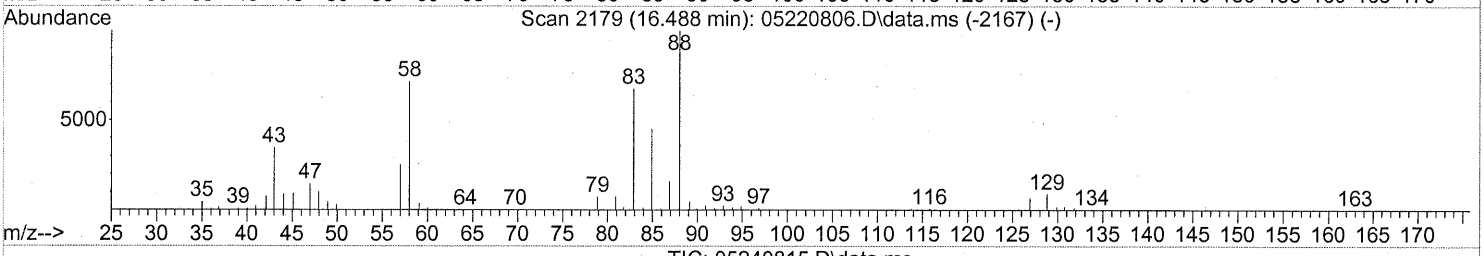
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(48) 1,4-Dioxane (T)

16.505min (+0.011) 0.17ng

response 4003

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	108.69
0.00	0.00	0.00
0.00	0.00	0.00

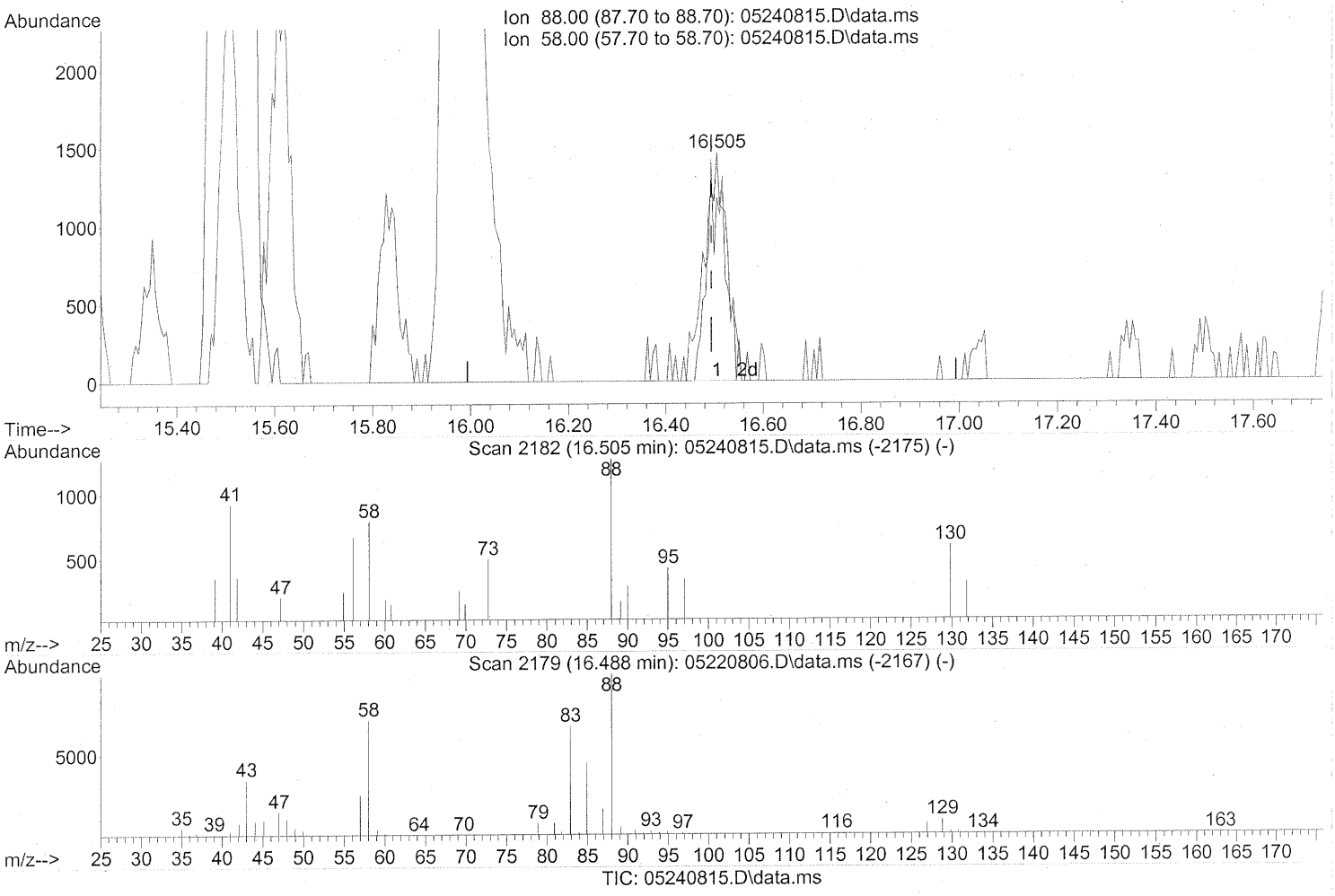
before

355

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801422-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:24:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.505min (+0.011) 0.17ng

response 4003

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	108.69
0.00	0.00	0.00
0.00	0.00	0.00

after subst

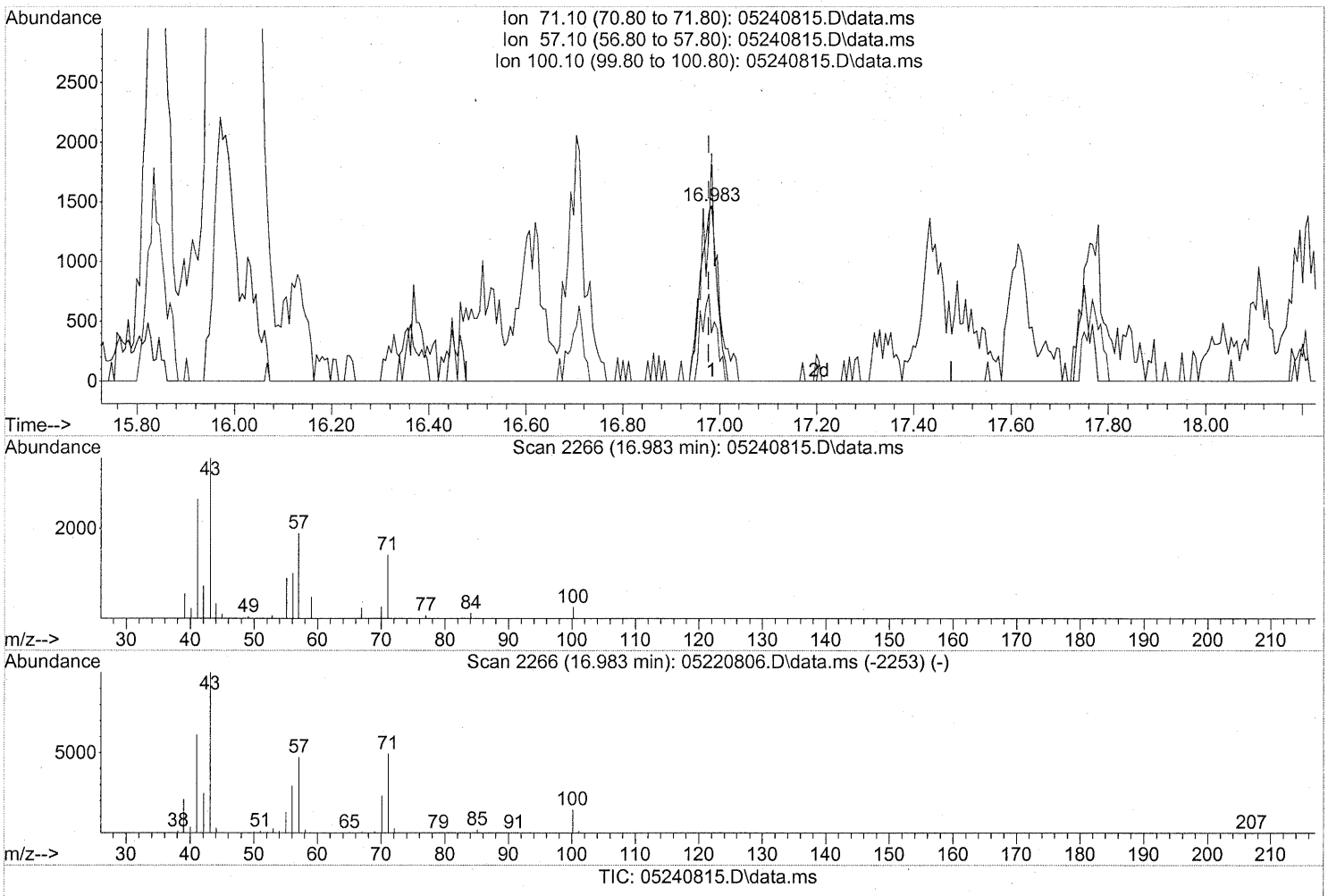
JDM 5/29/08

WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(51) n-Heptane (T)

16.983min (+0.006) 0.10ng

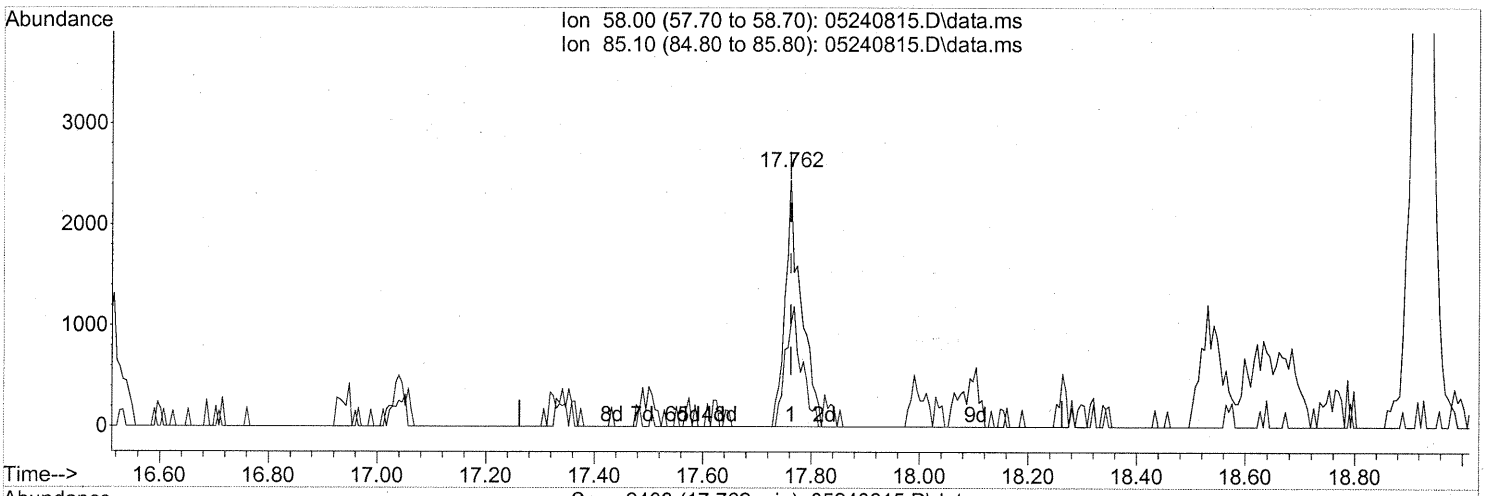
response 3378

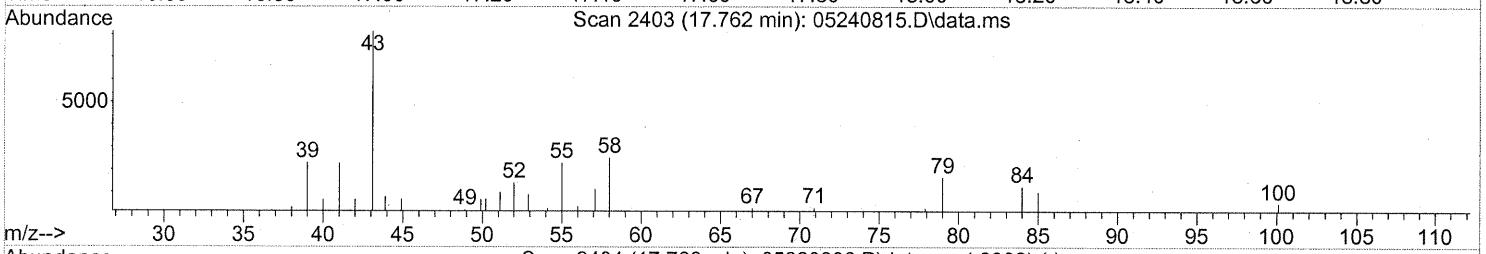
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	115.75
100.10	30.10	42.72
0.00	0.00	0.00

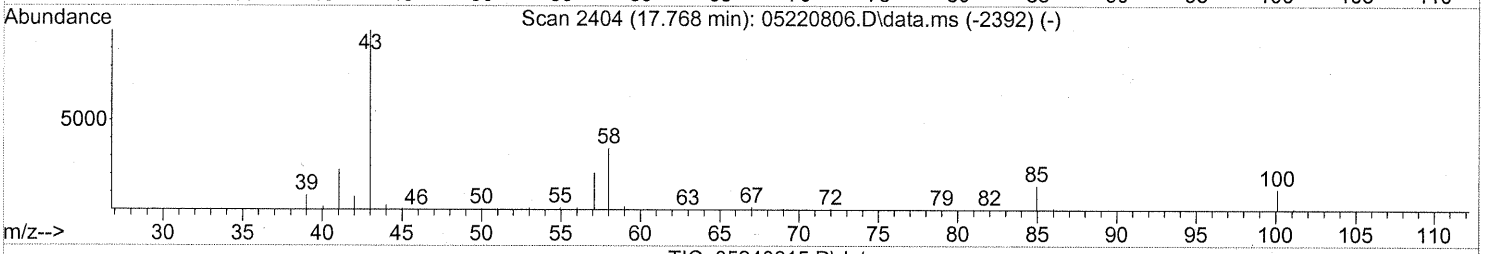
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

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

17.762min (-0.000) 0.16ng

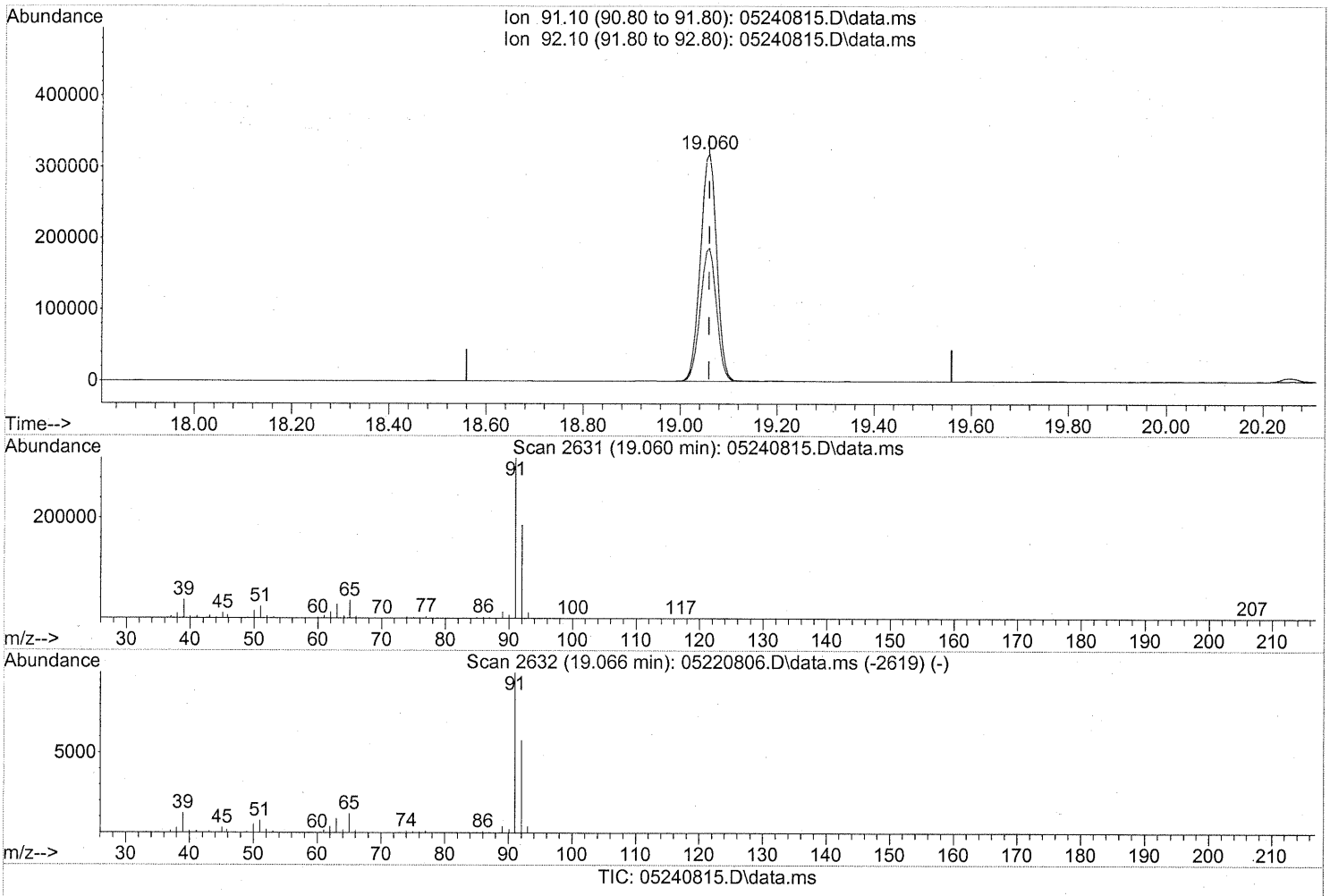
response 5045

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	48.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(58) Toluene (T)

19.060min (0.000) 5.49ng

response 741583

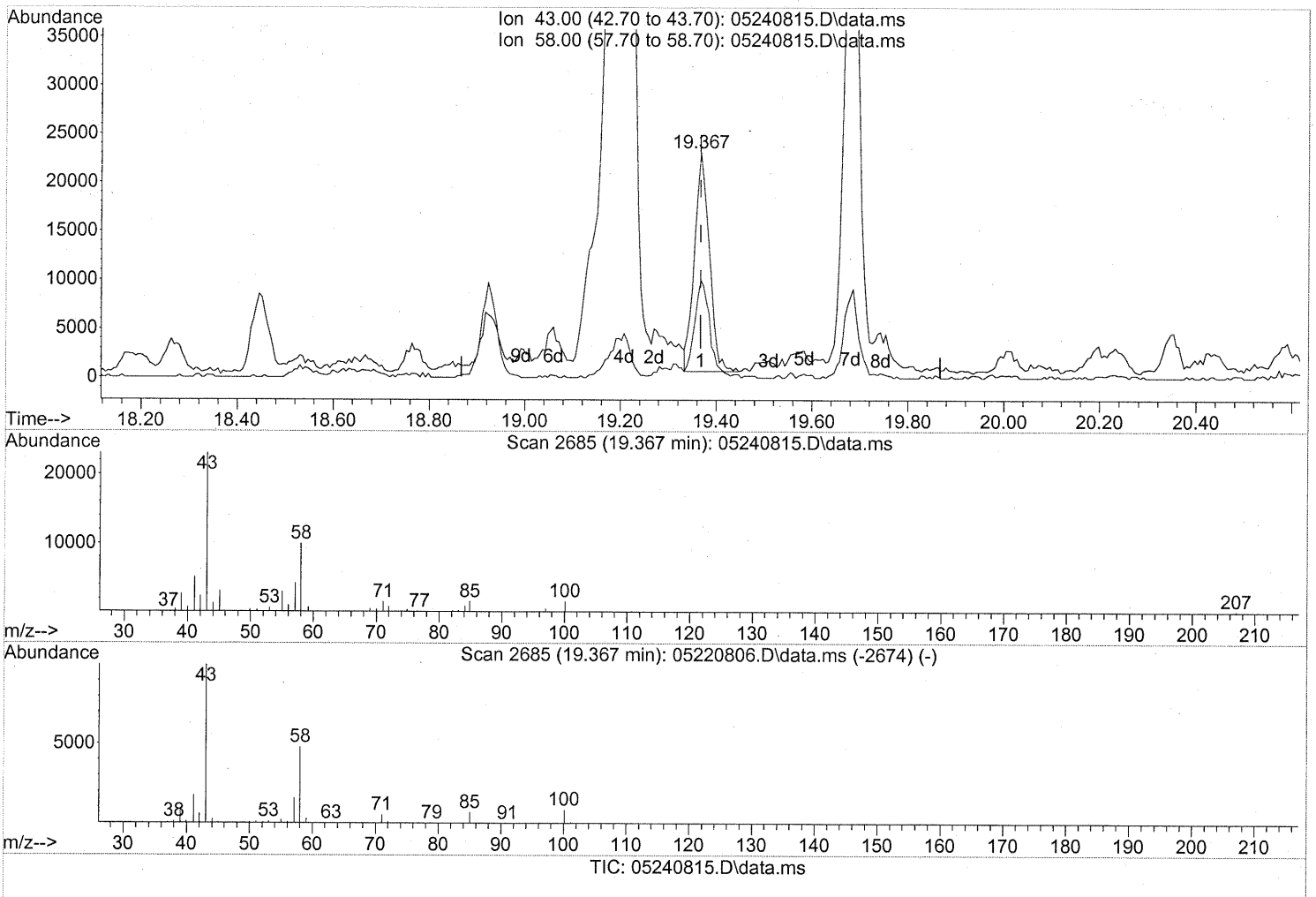
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.10
0.00	0.00	0.00
0.00	0.00	0.00

359

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(59) 2-Hexanone (T)

19.367min (0.000) 0.52ng

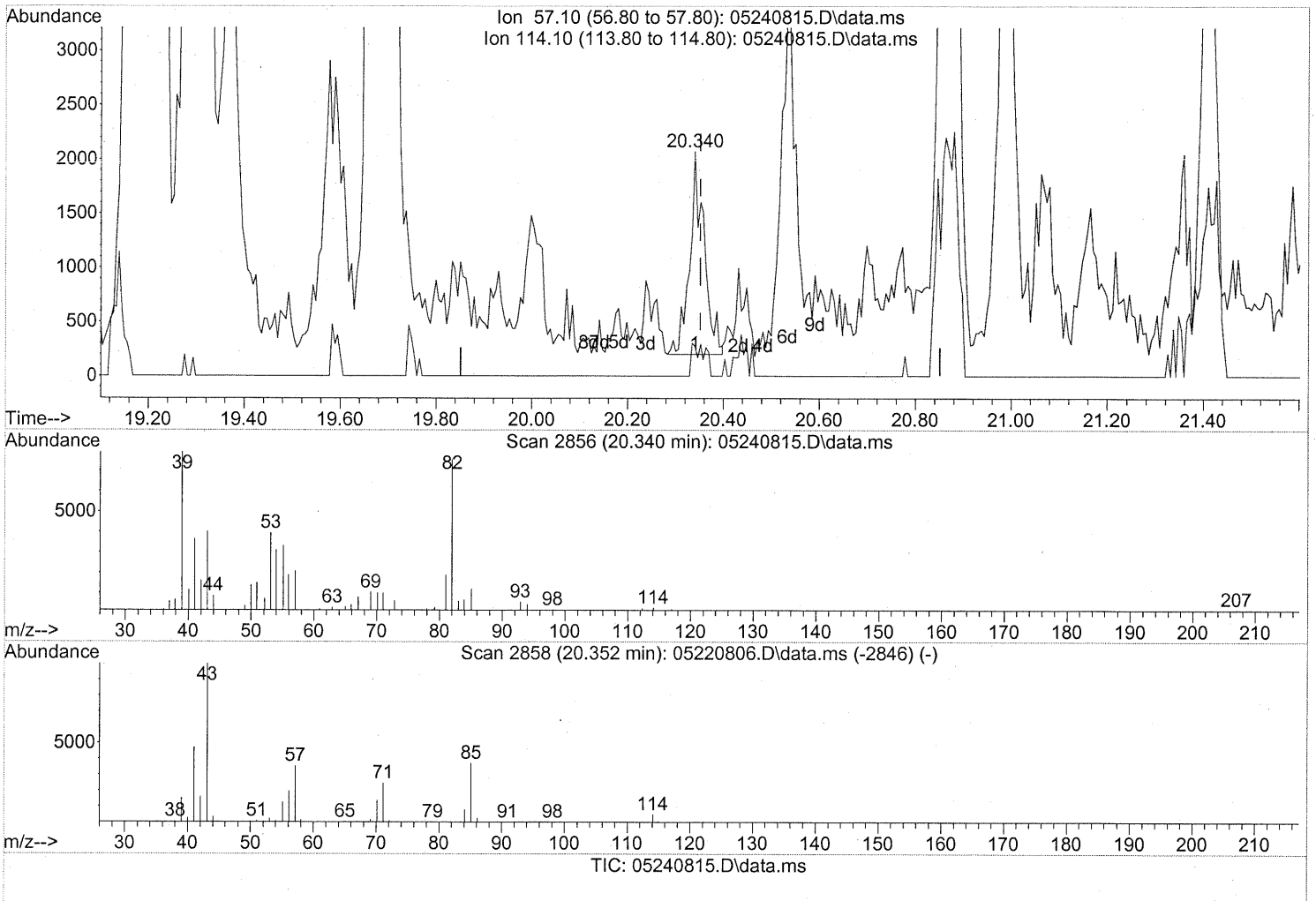
response 48466

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(63) n-Octane (T)

20.340min (-0.011) 0.13ng

response 3903

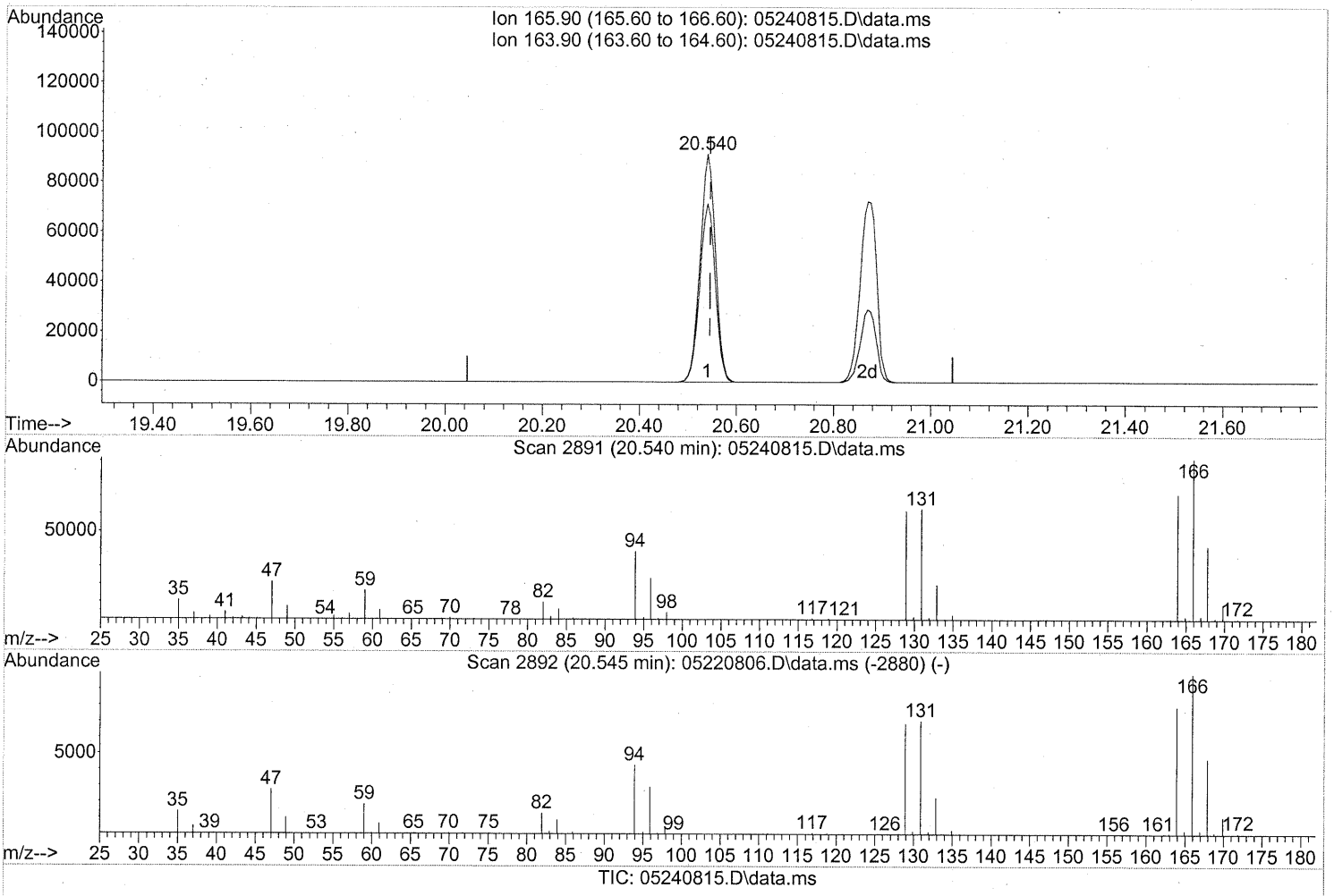
Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.53
0.00	0.00	0.00
0.00	0.00	0.00

361

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 5.01ng

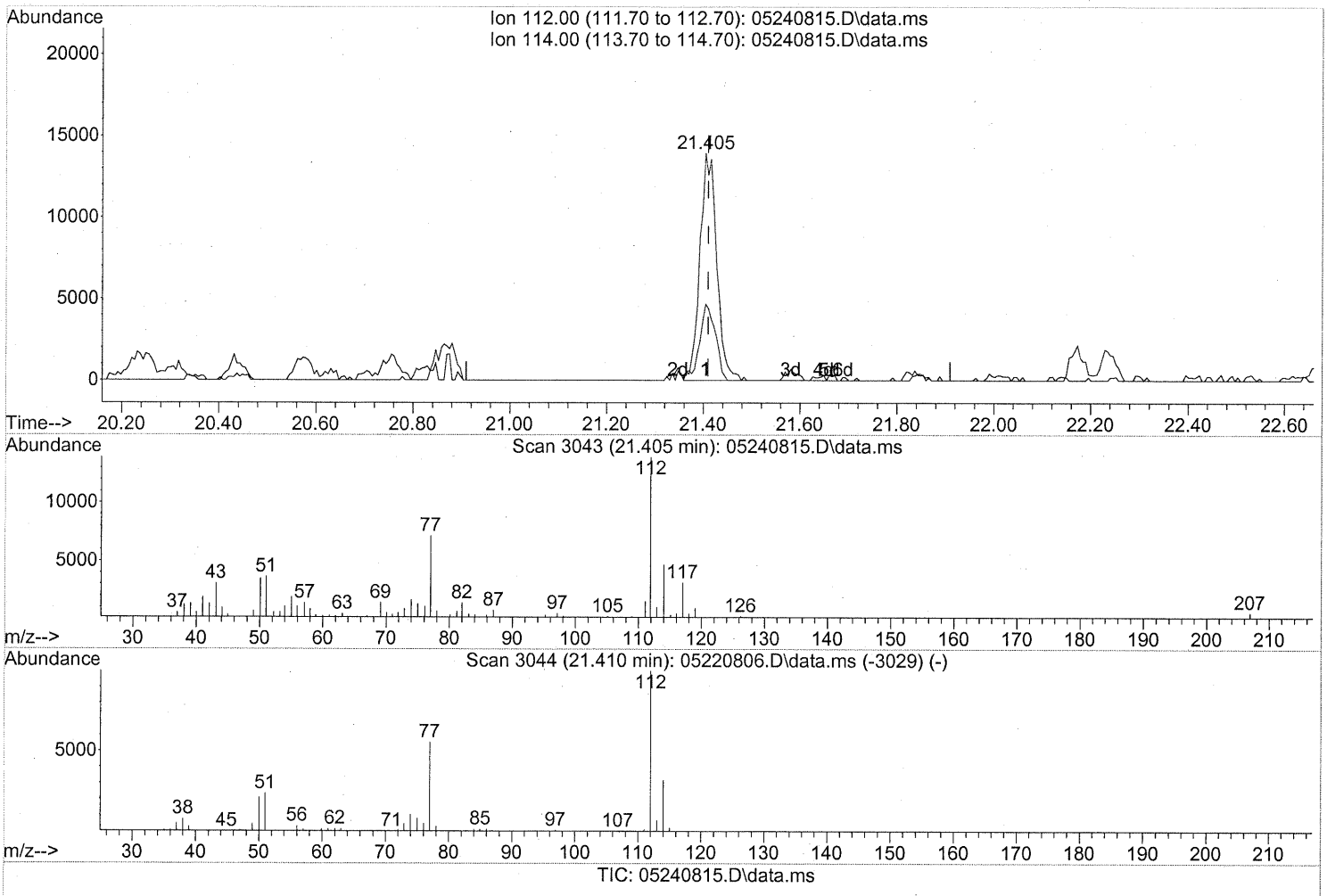
response 200088

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(65) Chlorobenzene (T)

21.405min (-0.006) 0.37ng

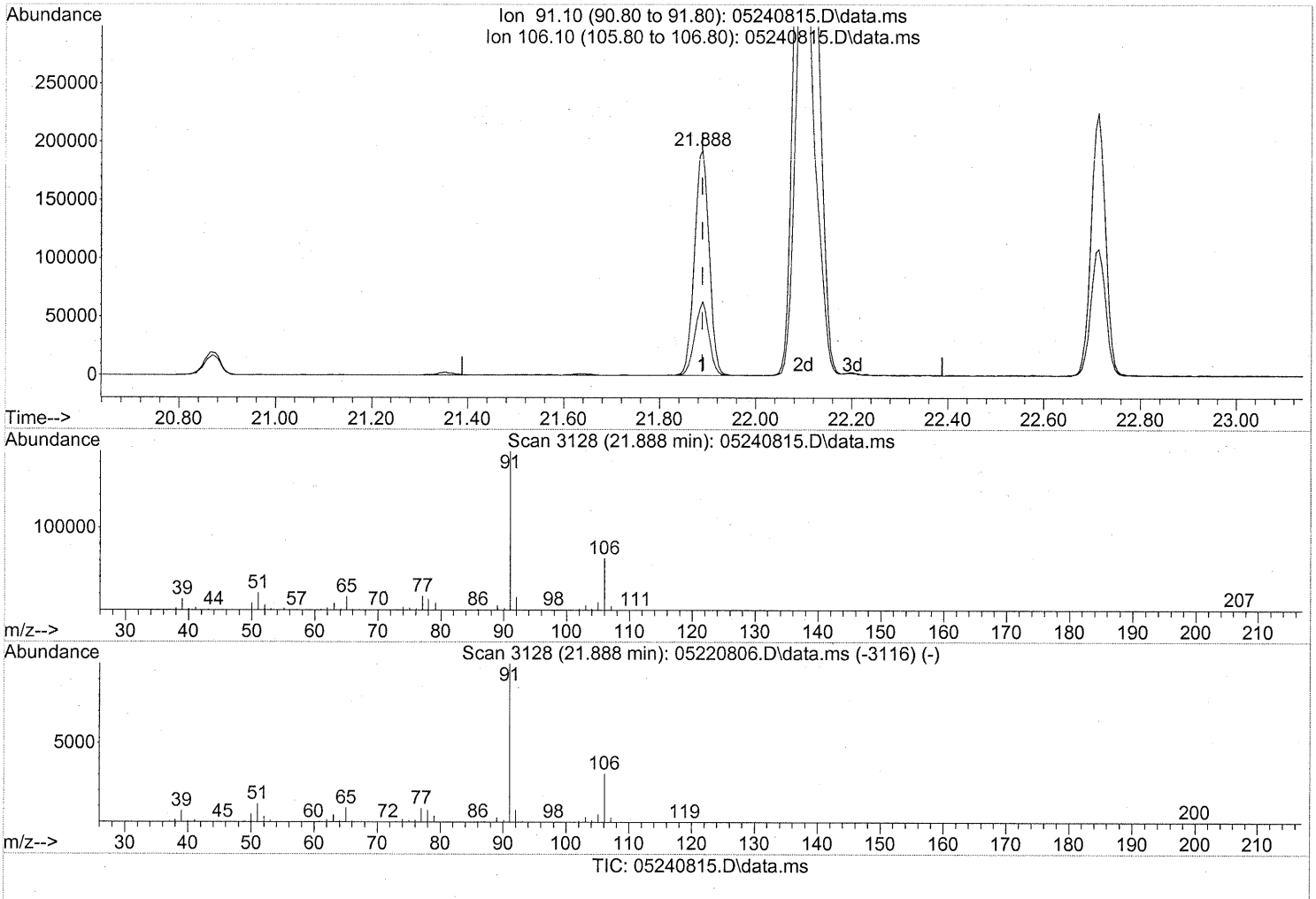
response 33365

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(66) Ethylbenzene (T)

21.888min (0.000) 2.64ng

response 409118

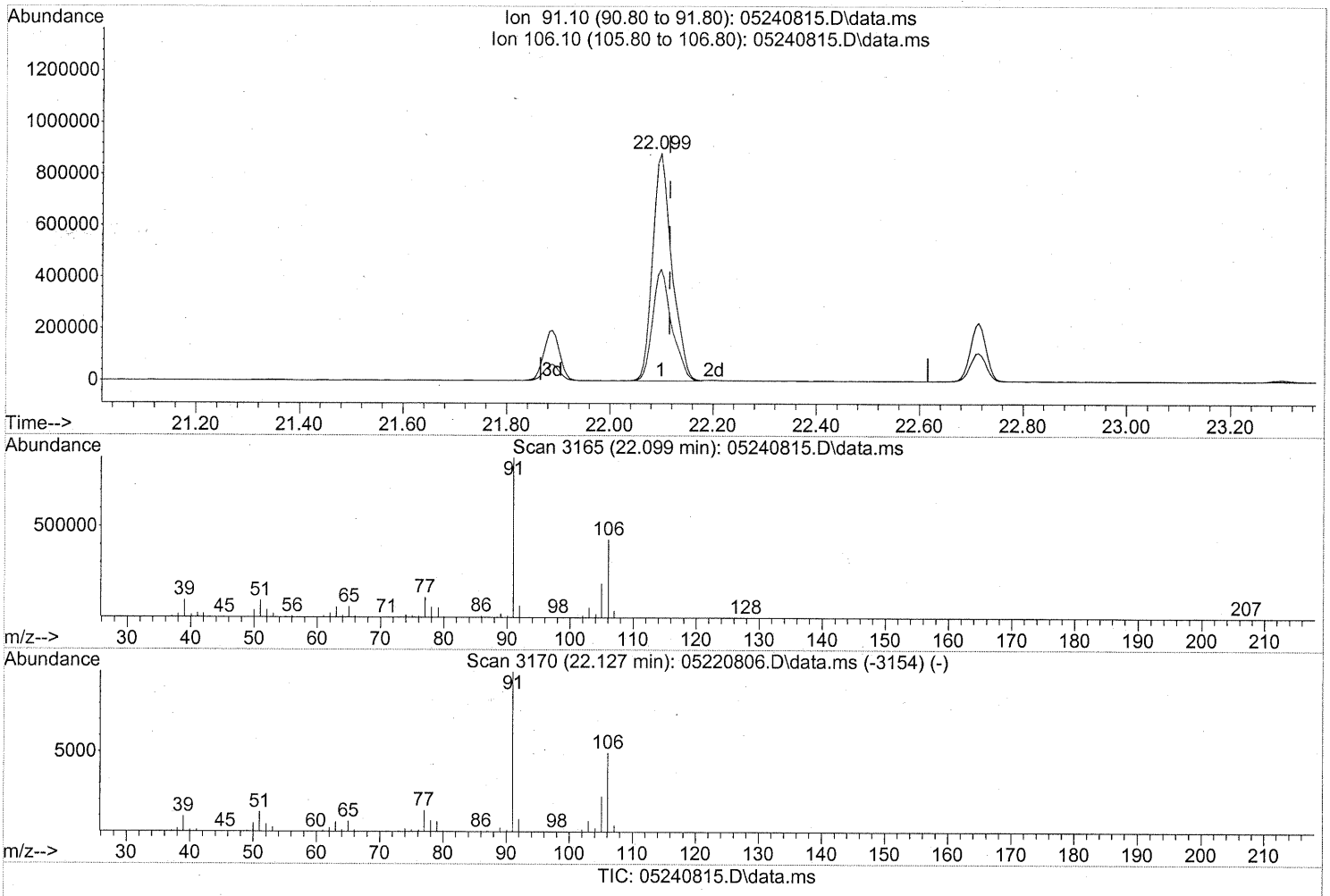
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.38
0.00	0.00	0.00
0.00	0.00	0.00

364

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

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

22.099min (-0.017) 21.95ng

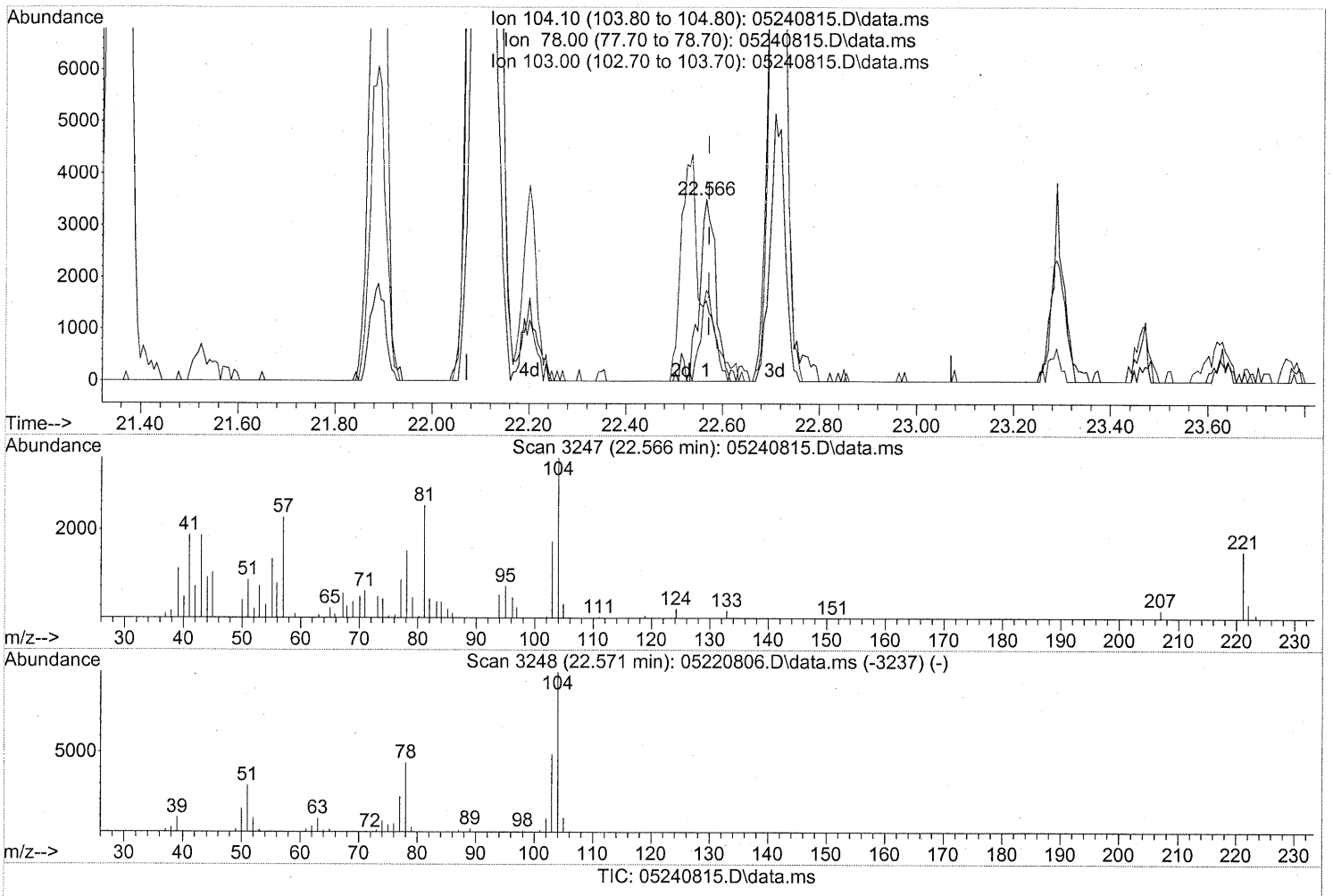
response 2272243

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(69) Styrene (T)

22.566min (-0.006) 0.09ng

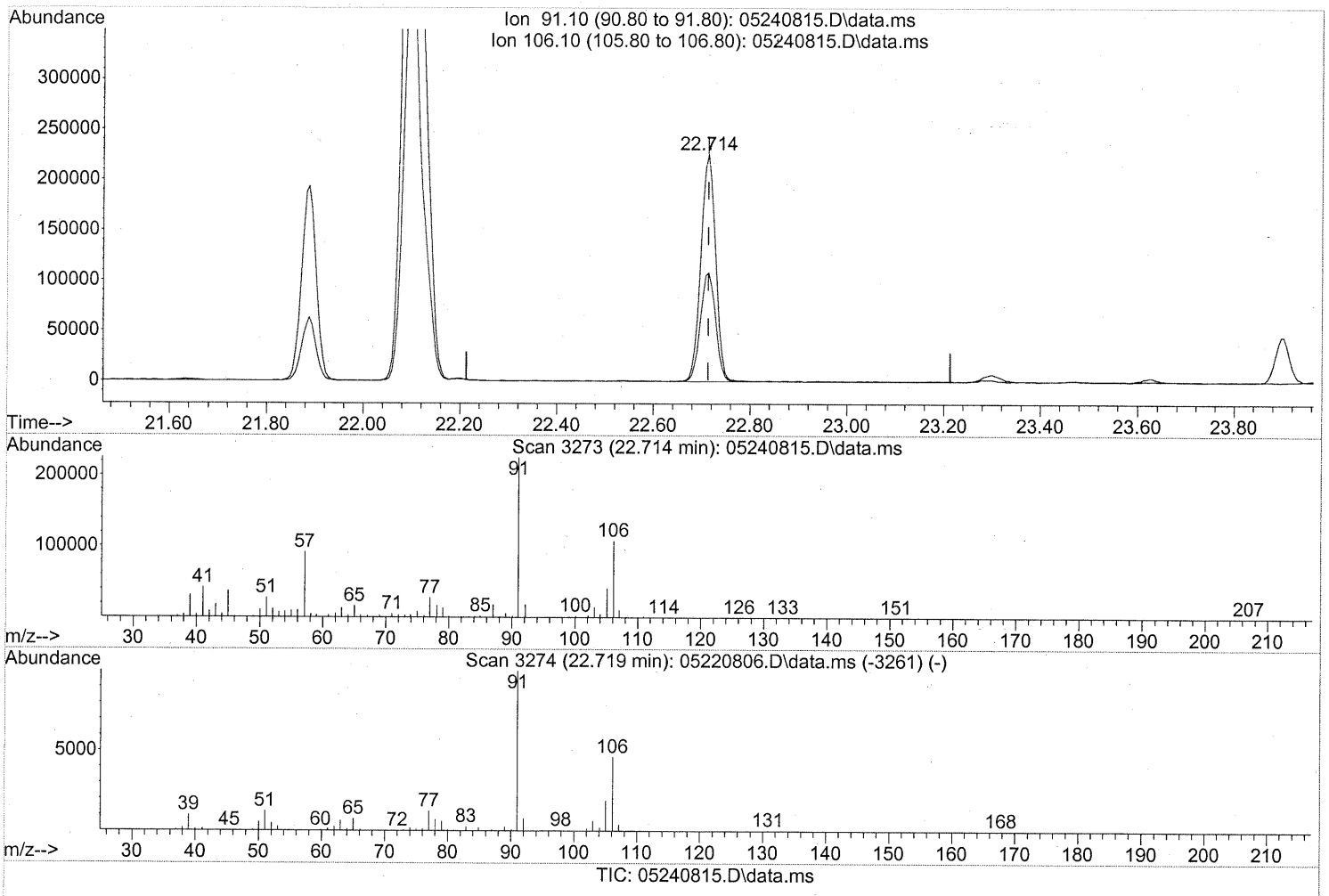
response 7962

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	43.23
103.00	47.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(70) o-Xylene (T)

22.714min (0.000) 4.24ng

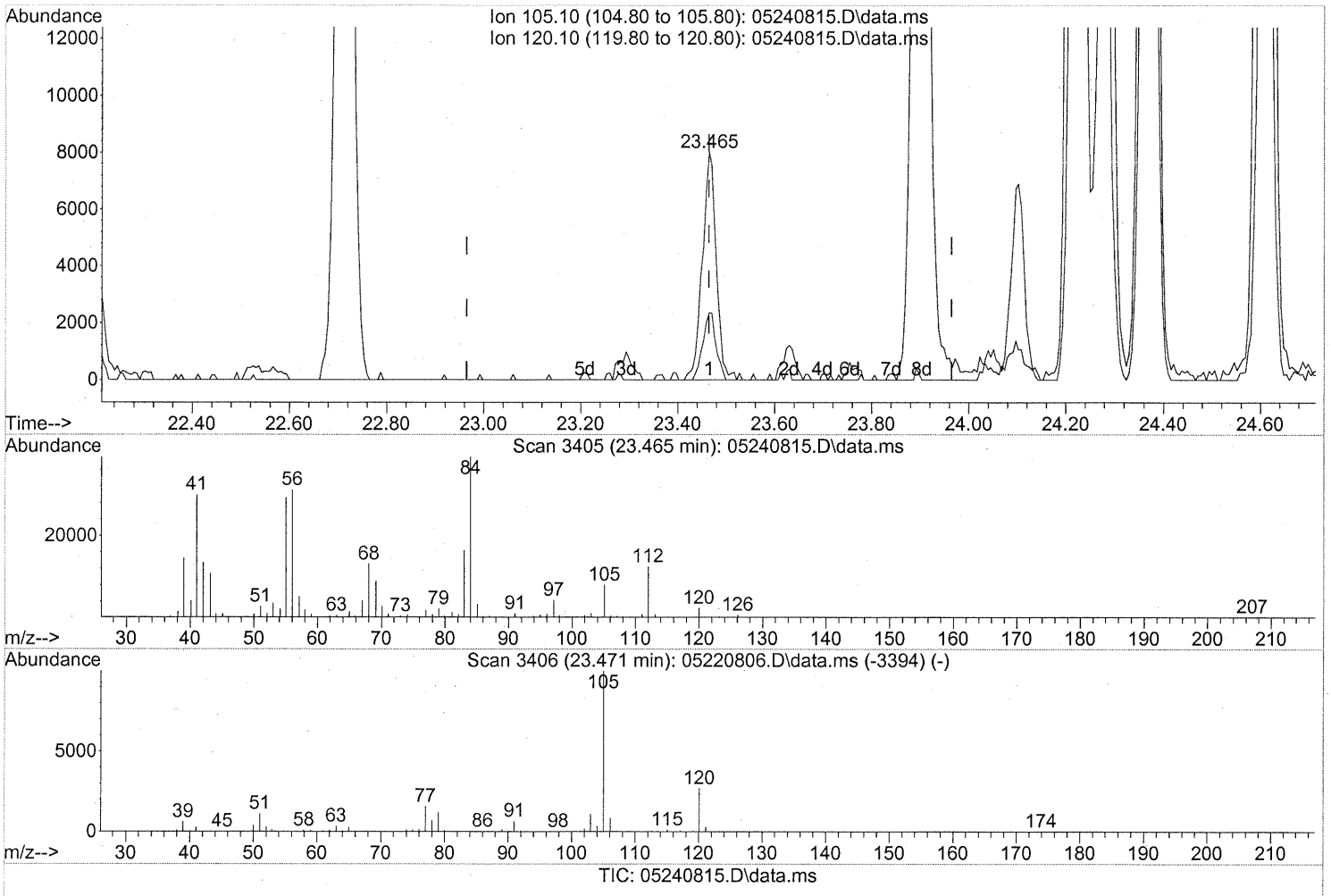
response 473854

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	49.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(74) Cumene (T)

23.465min (0.000) 0.11ng

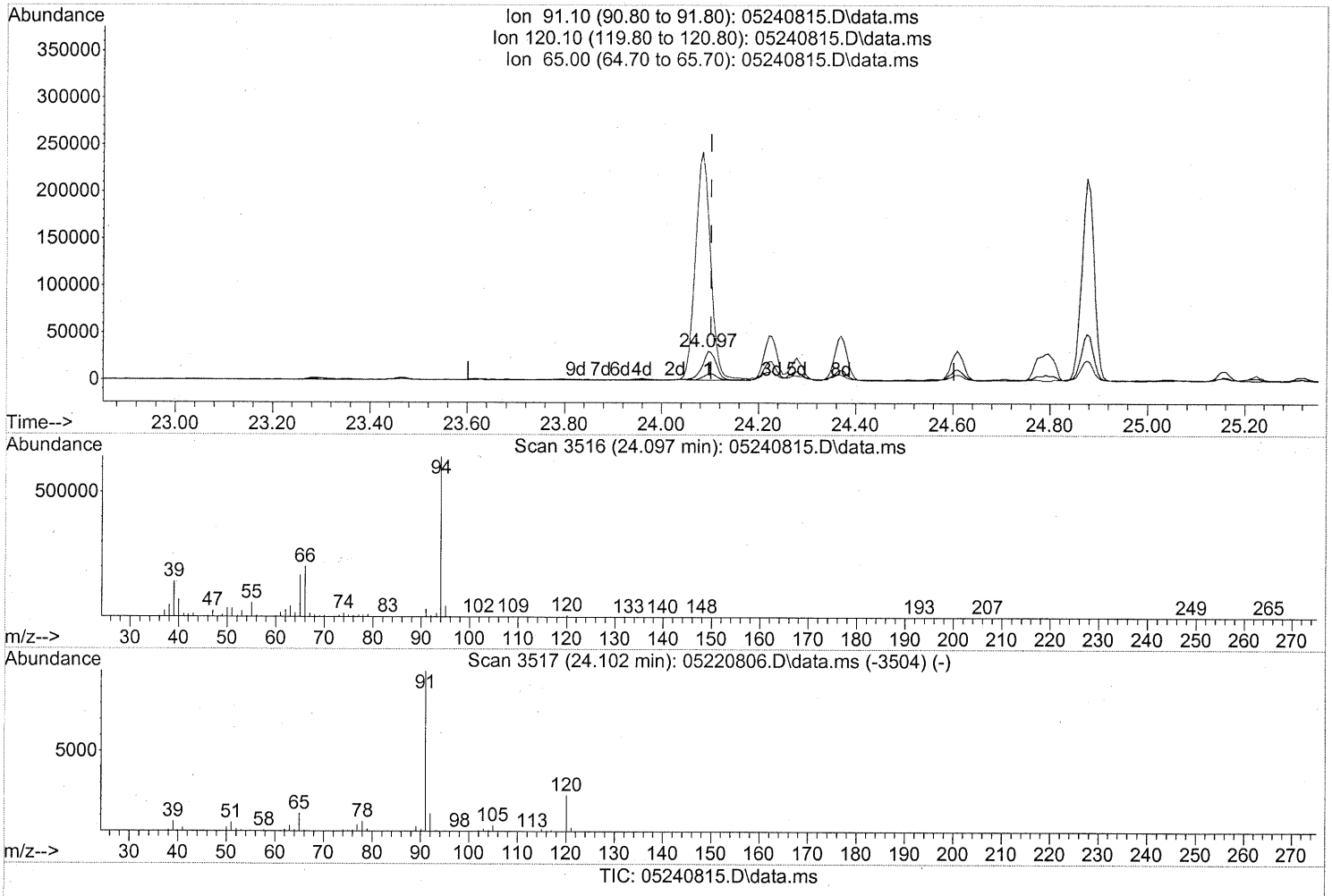
response 15876

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	27.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(76) n-Propylbenzene (T)

24.097min (-0.006) 0.32ng

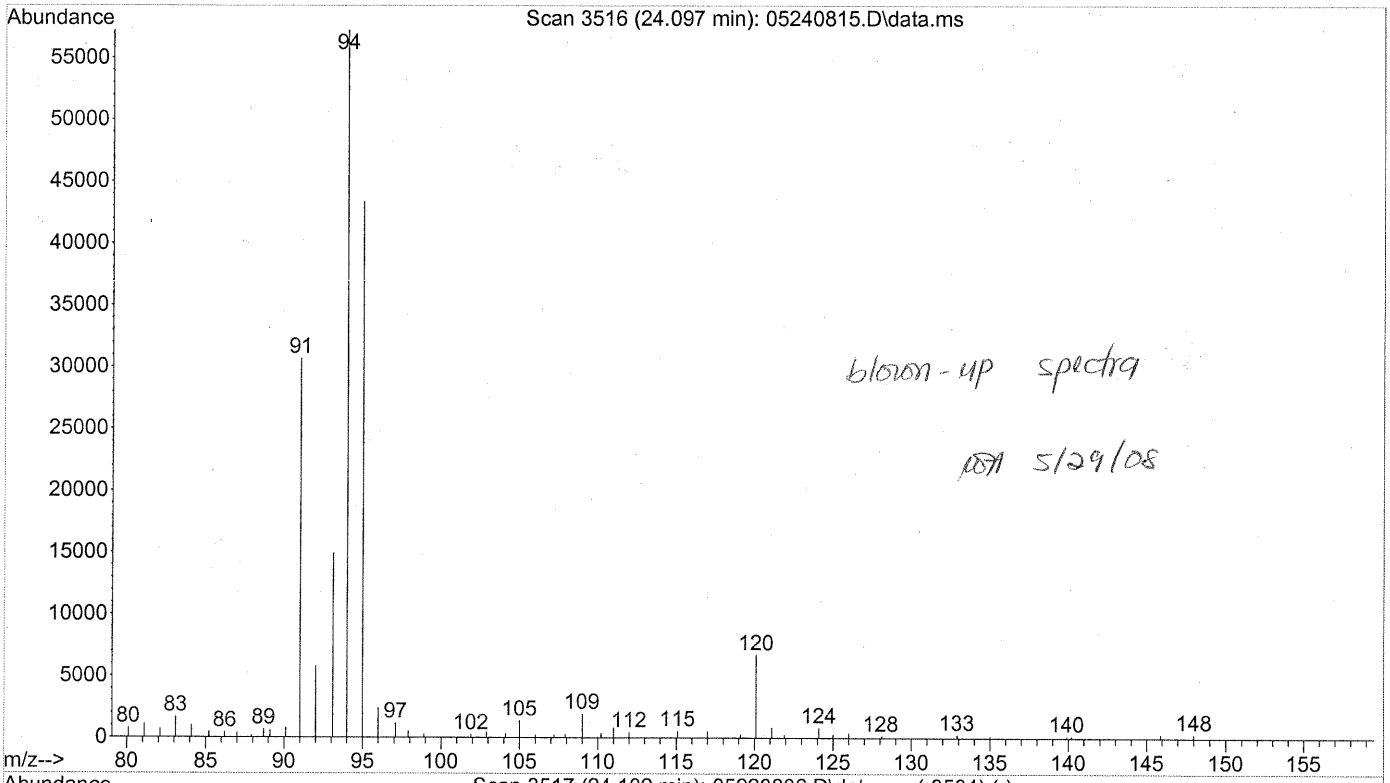
response 60399

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.44
65.00	11.40	871.89#
0.00	0.00	0.00

see blown-up spectra

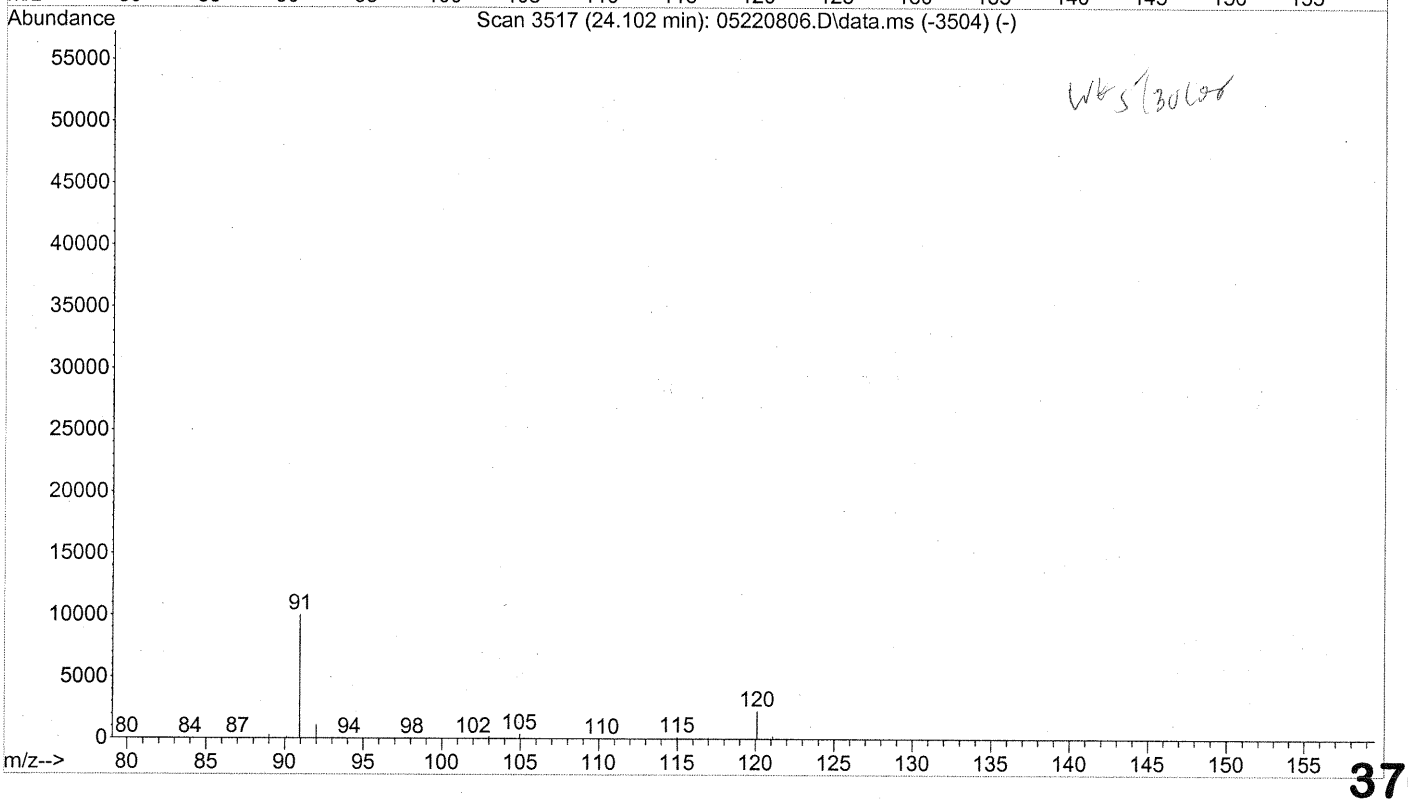
369

File :J:\MS13\DATA\2008_05\24\05240815.D
Operator : WA
Acquired : 24 May 2008 16:42 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-006 (1000ml)
Misc Info : ENSR SG88B-05 (-3.7, 3.7)
Vial Number: 12



blown-up spectra

KSM 5/29/08

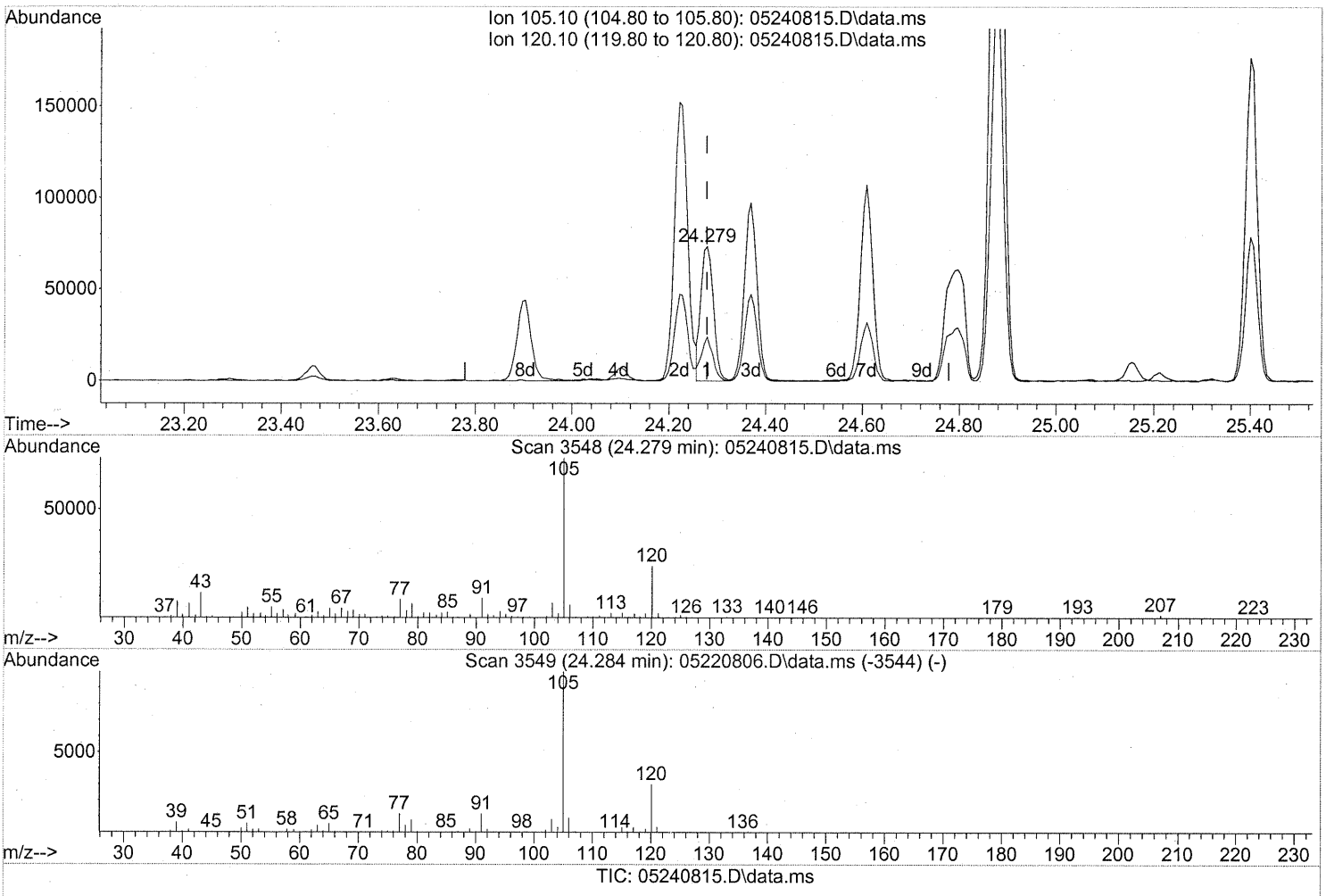


WKS 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(78) 4-Ethyltoluene (T)

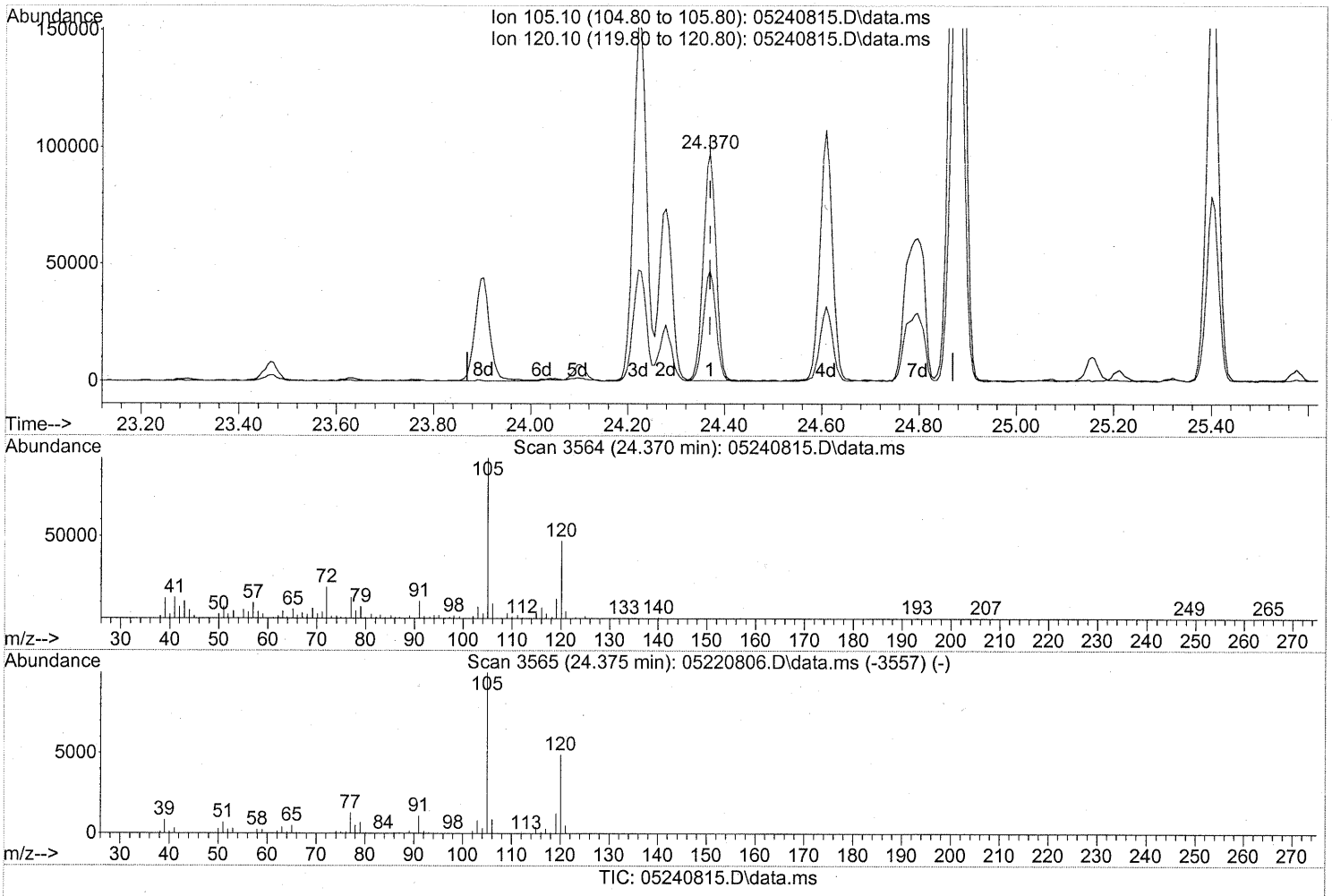
24.279min (0.000) 0.89ng

response 131932

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

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

24.370min (-0.000) 1.32ng

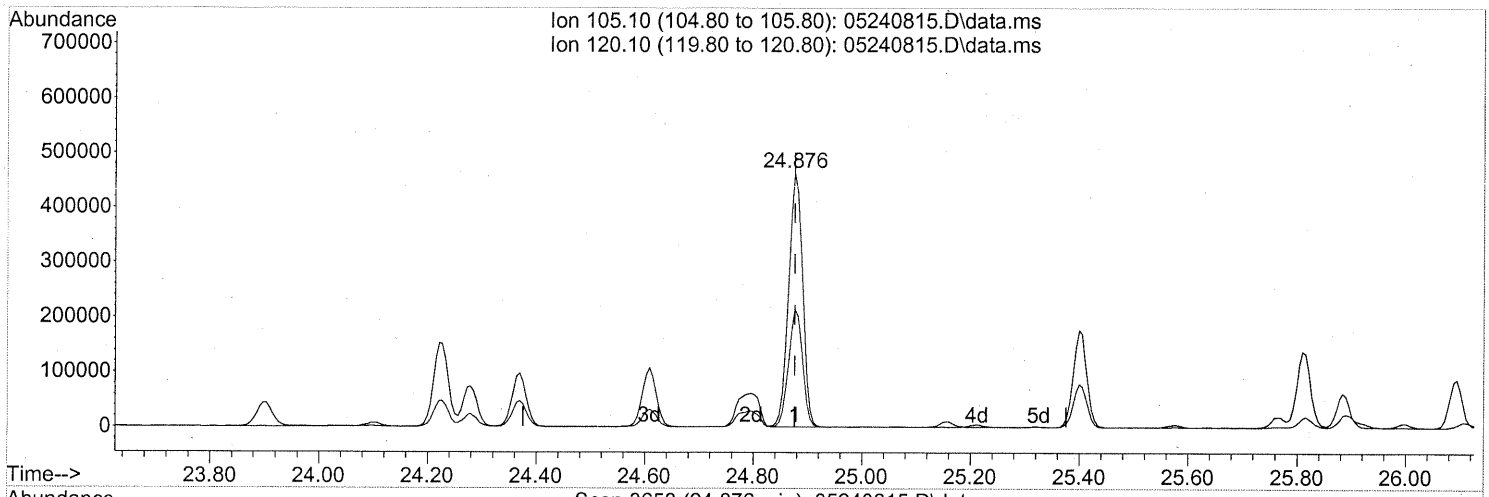
response 176545

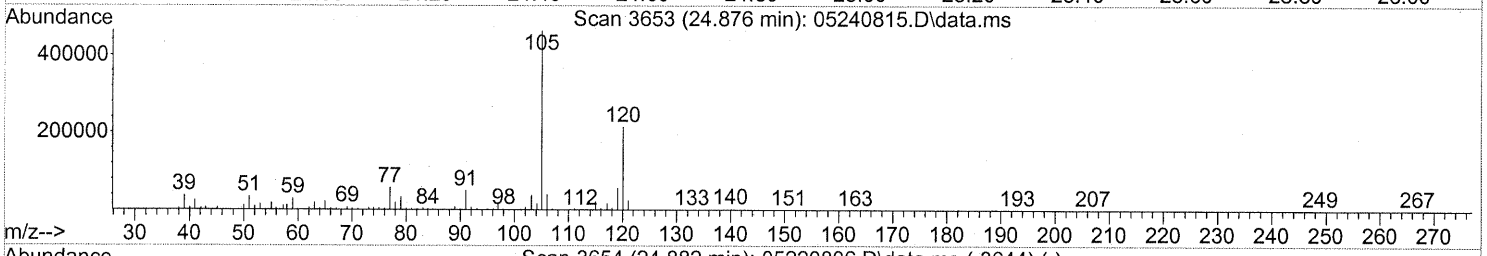
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.38
0.00	0.00	0.00
0.00	0.00	0.00

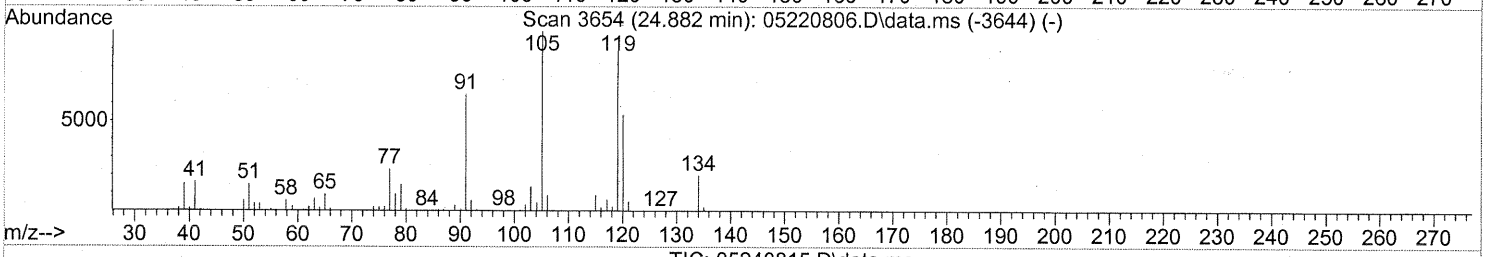
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

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

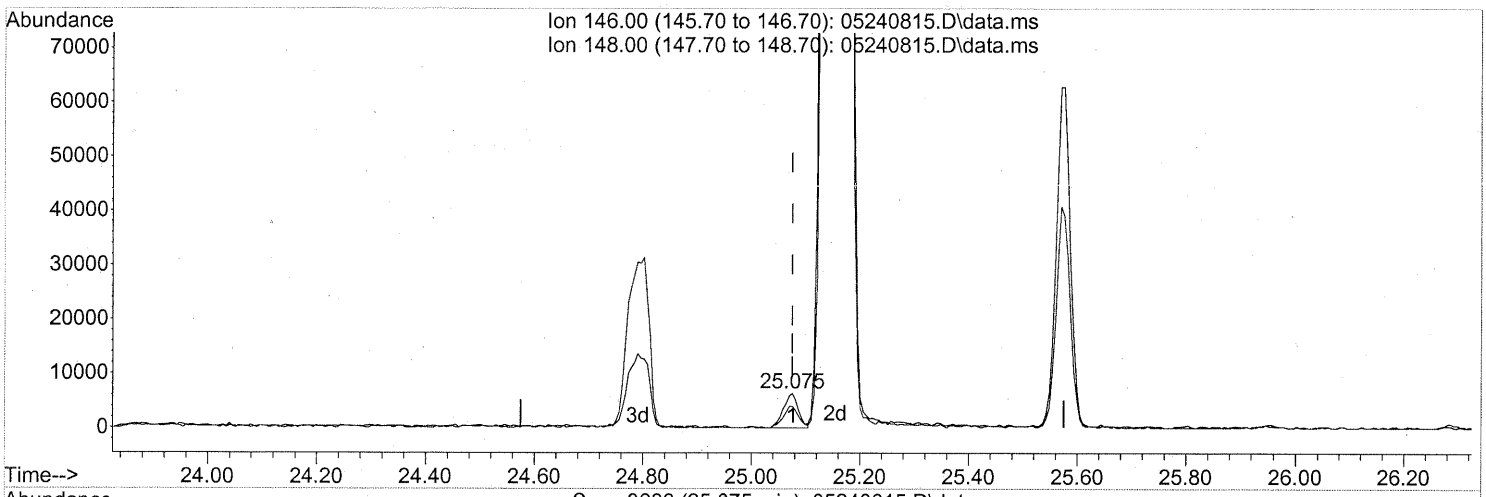
24.876min (-0.000) 6.07ng

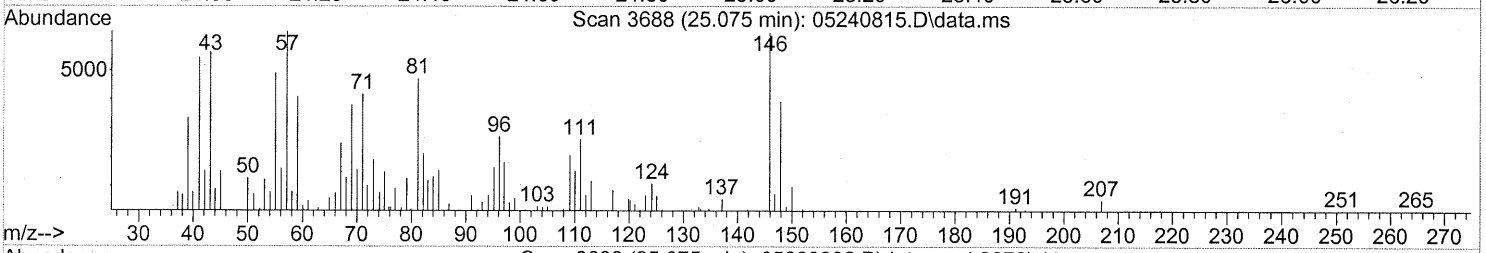
response 824218

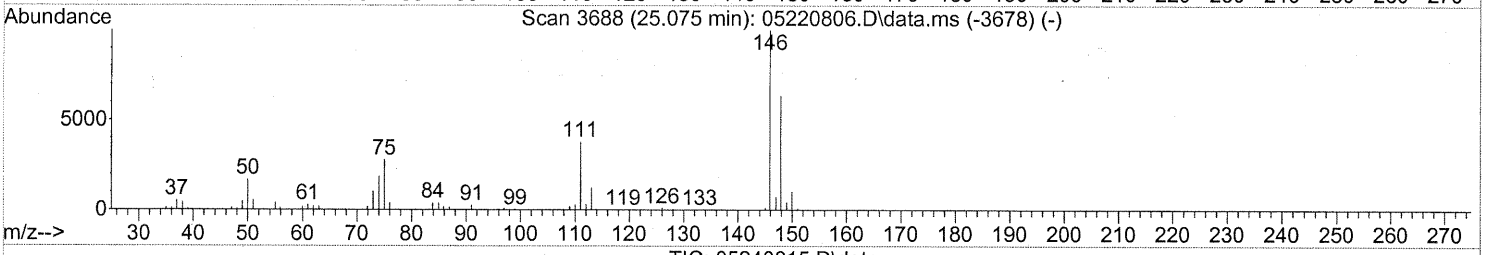
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.15
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.14ng

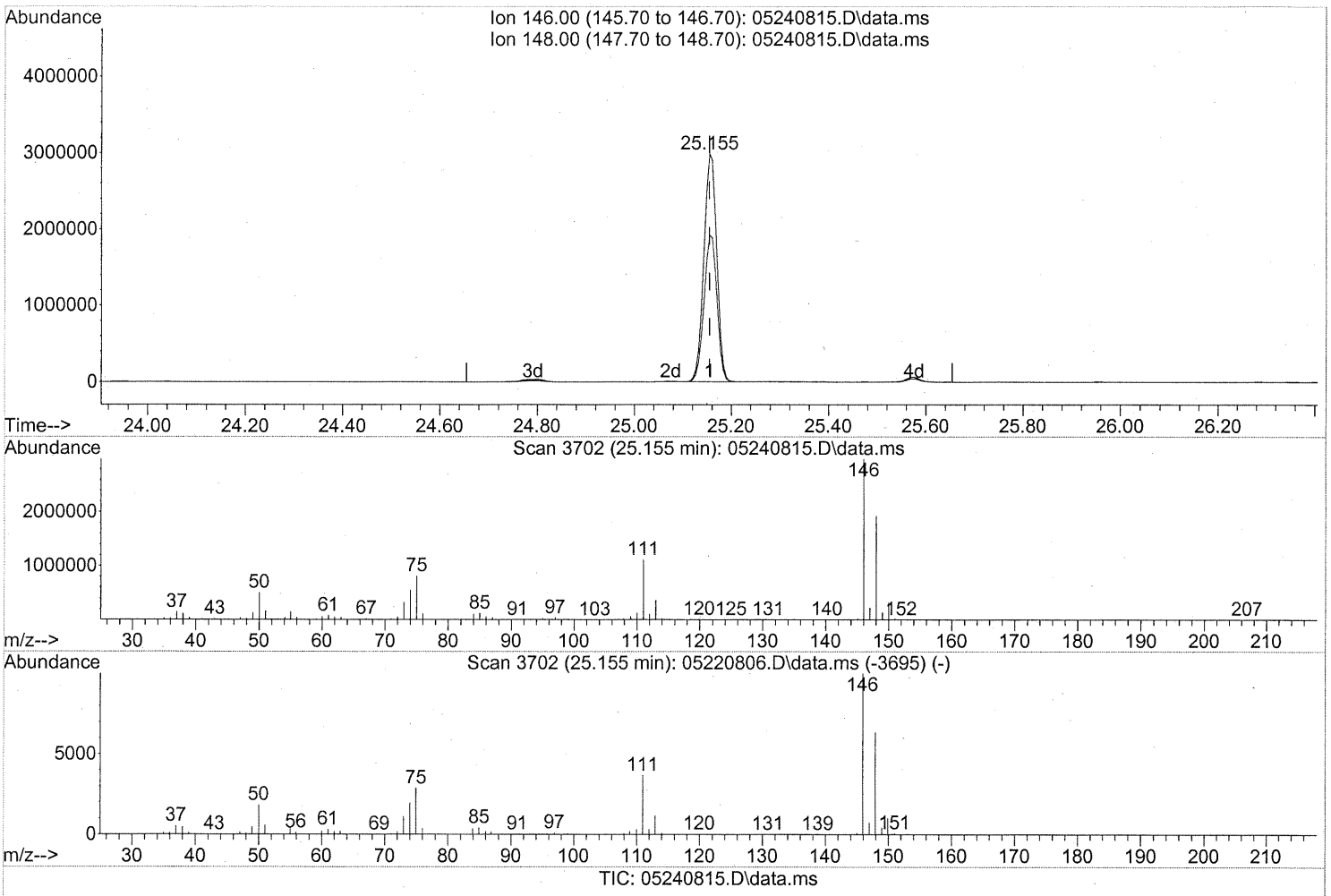
response 11822

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (0.000) 66.58ng

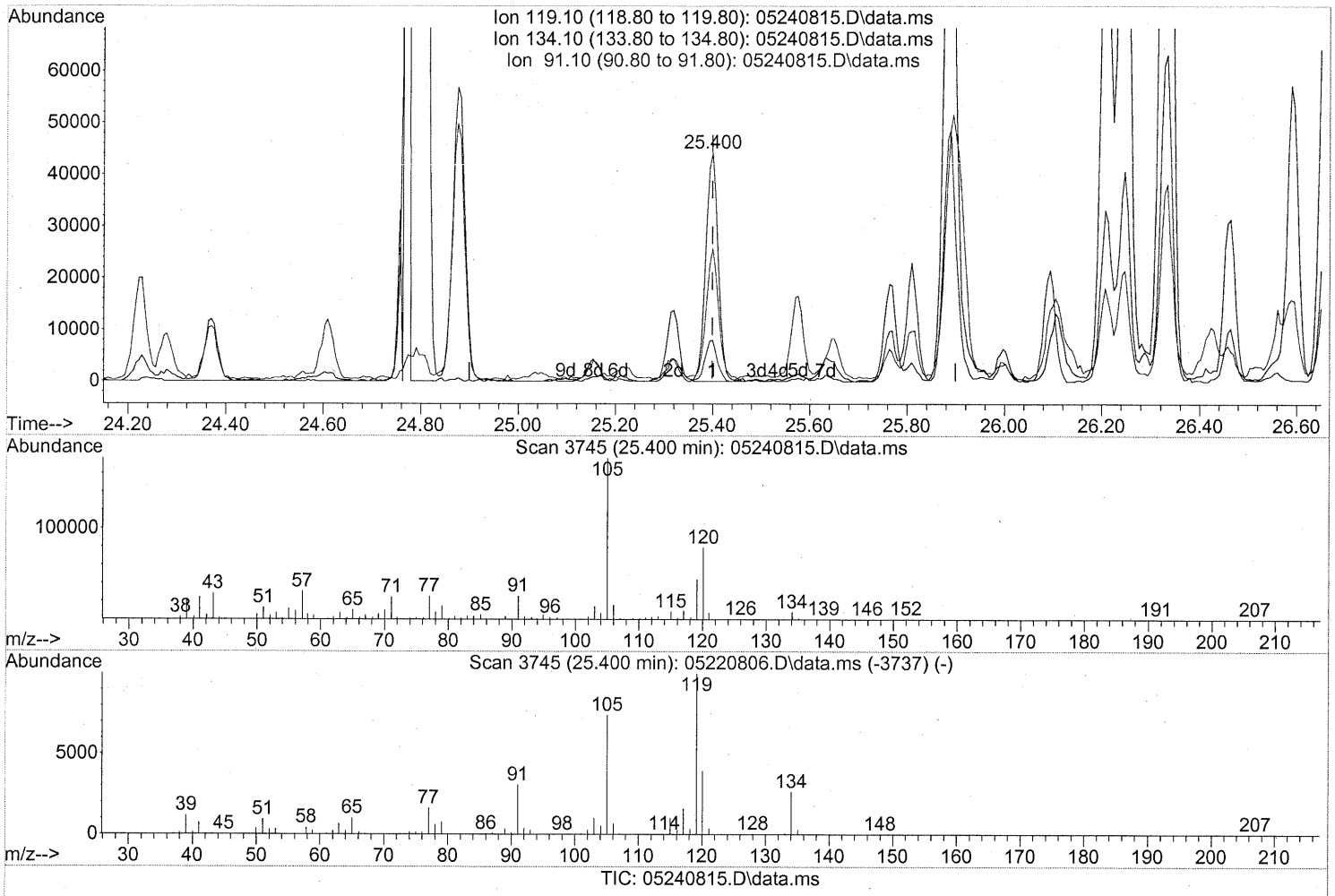
response 5481503

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (0.000) 0.55ng

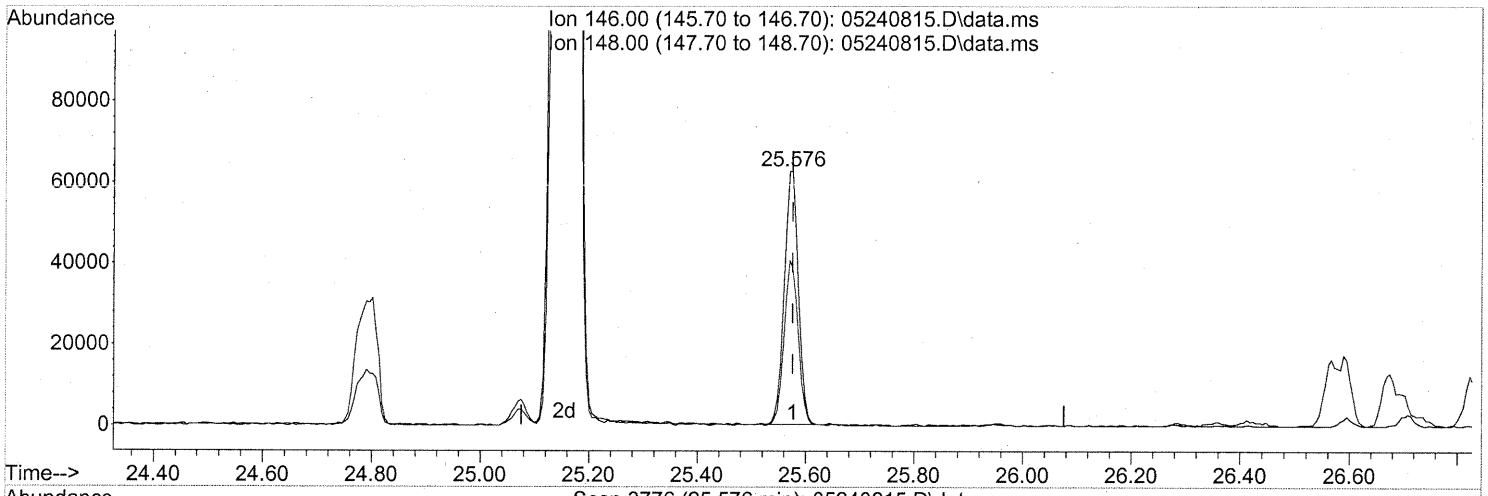
response 78048

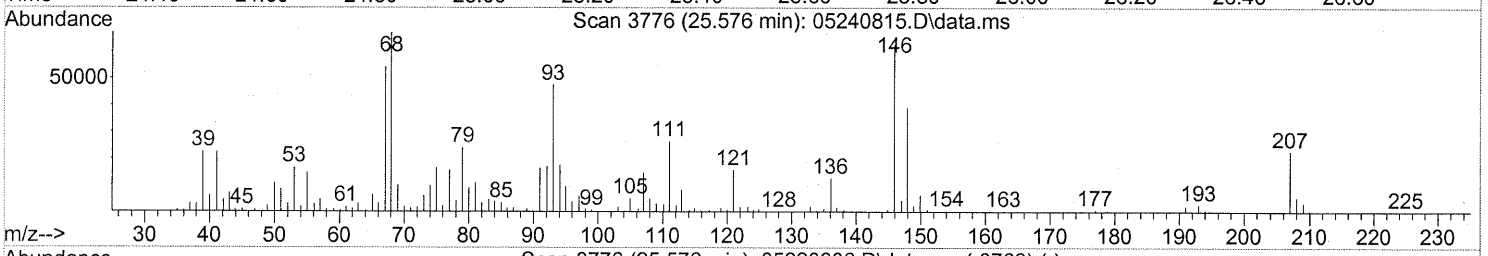
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	17.67
91.10	27.10	56.64#
0.00	0.00	0.00

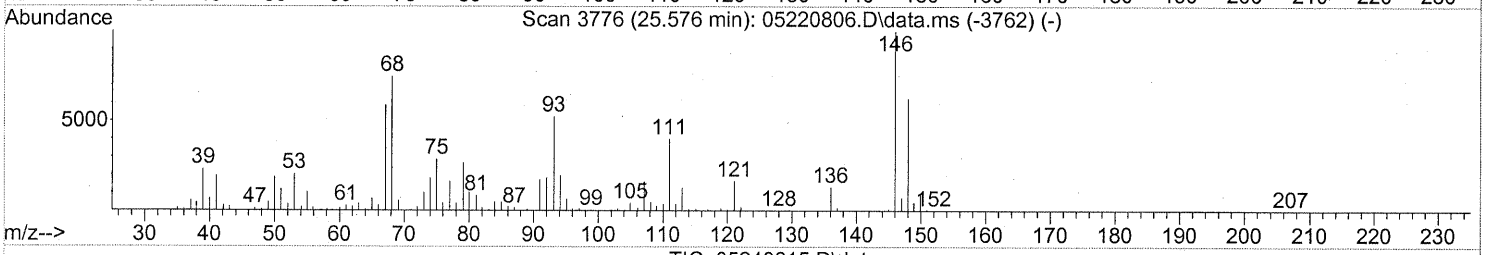
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240815.D\data.ms

(90) 1,2-Dichlorobenzene (T)

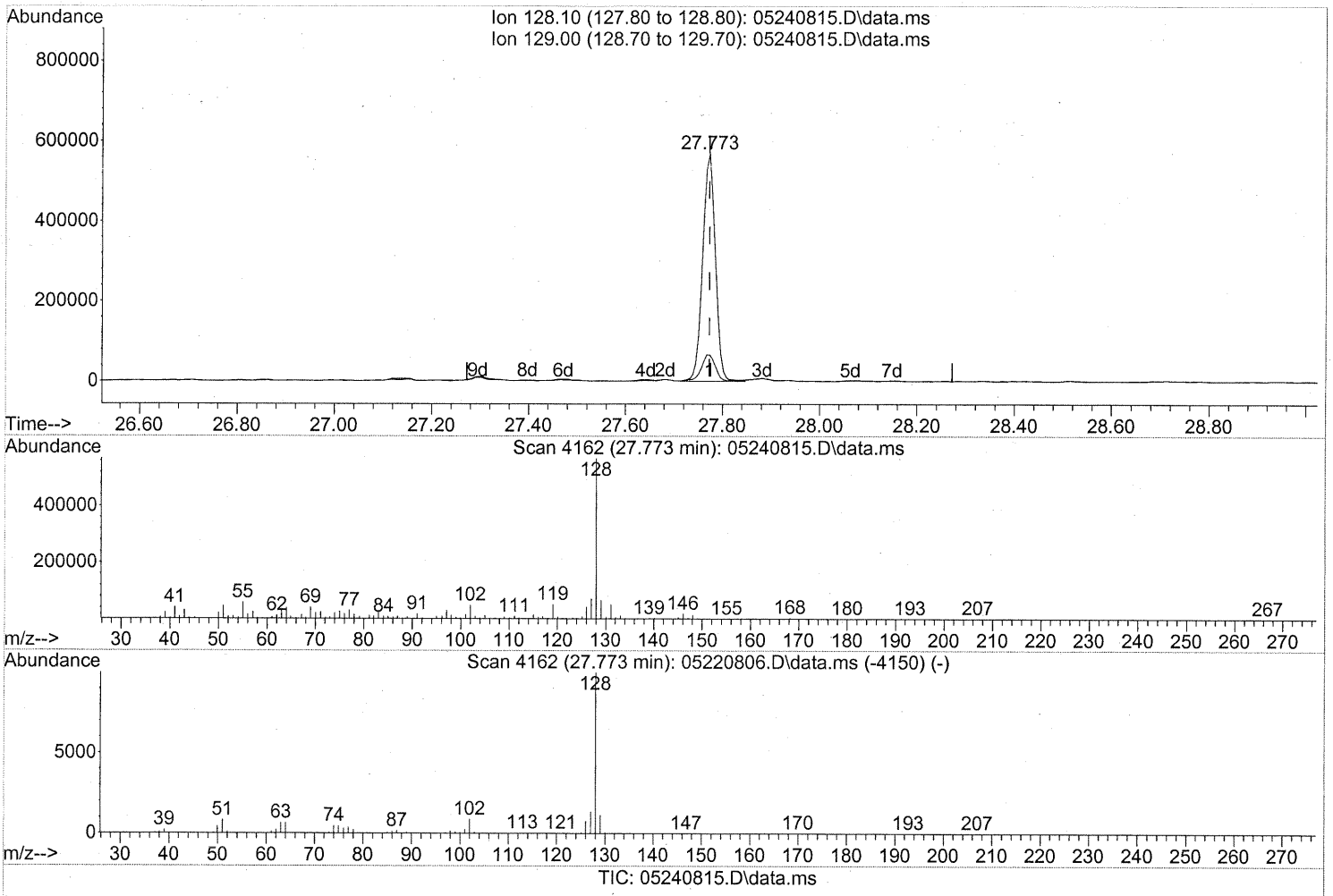
25.576min (-0.000) 1.41ng

response 113529

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	65.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 07:27:33 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(95) Naphthalene (T)

27.773min (0.000) 5.70ng

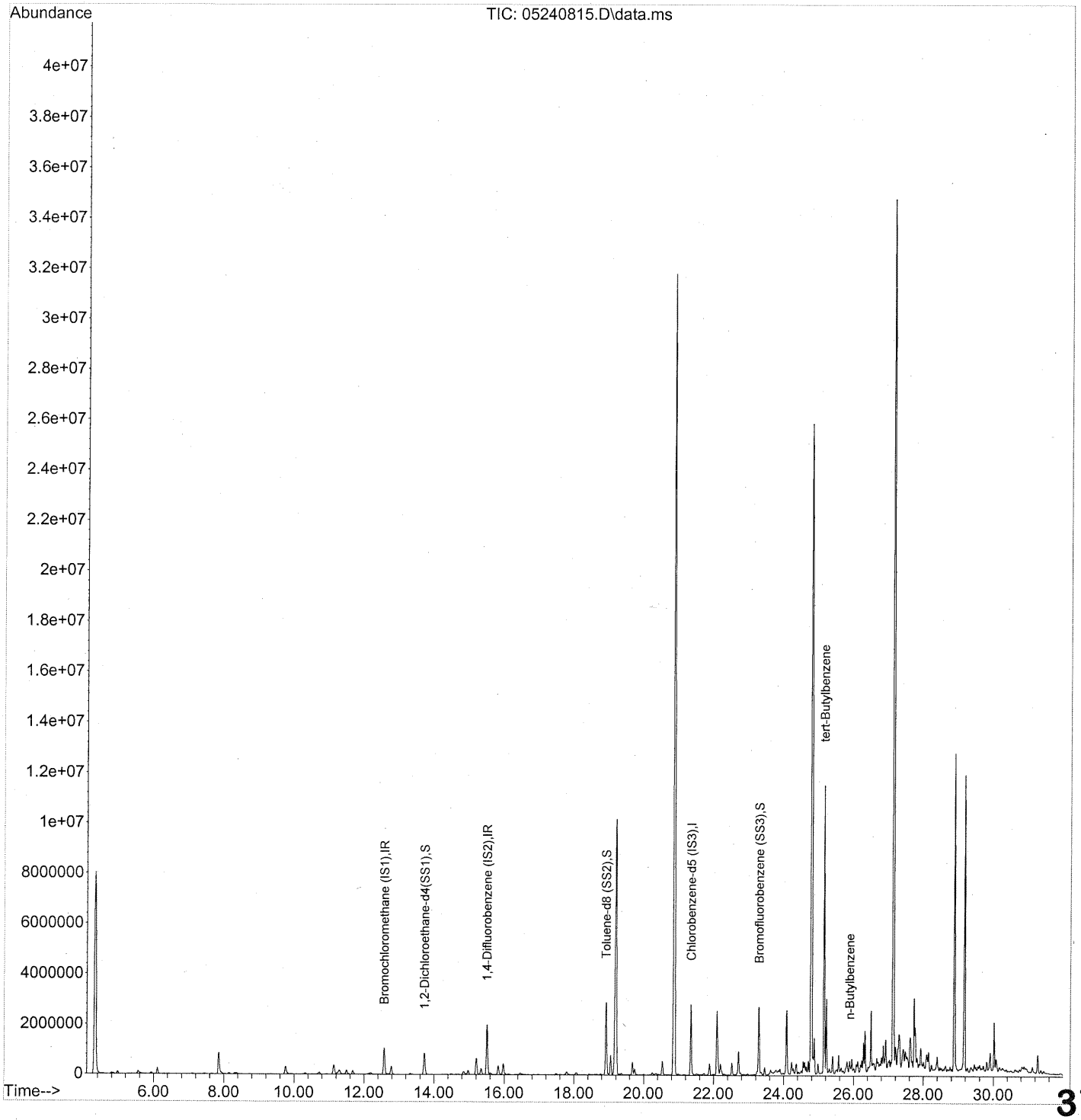
response 1021676

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 20:36:54 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 20:36:54 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

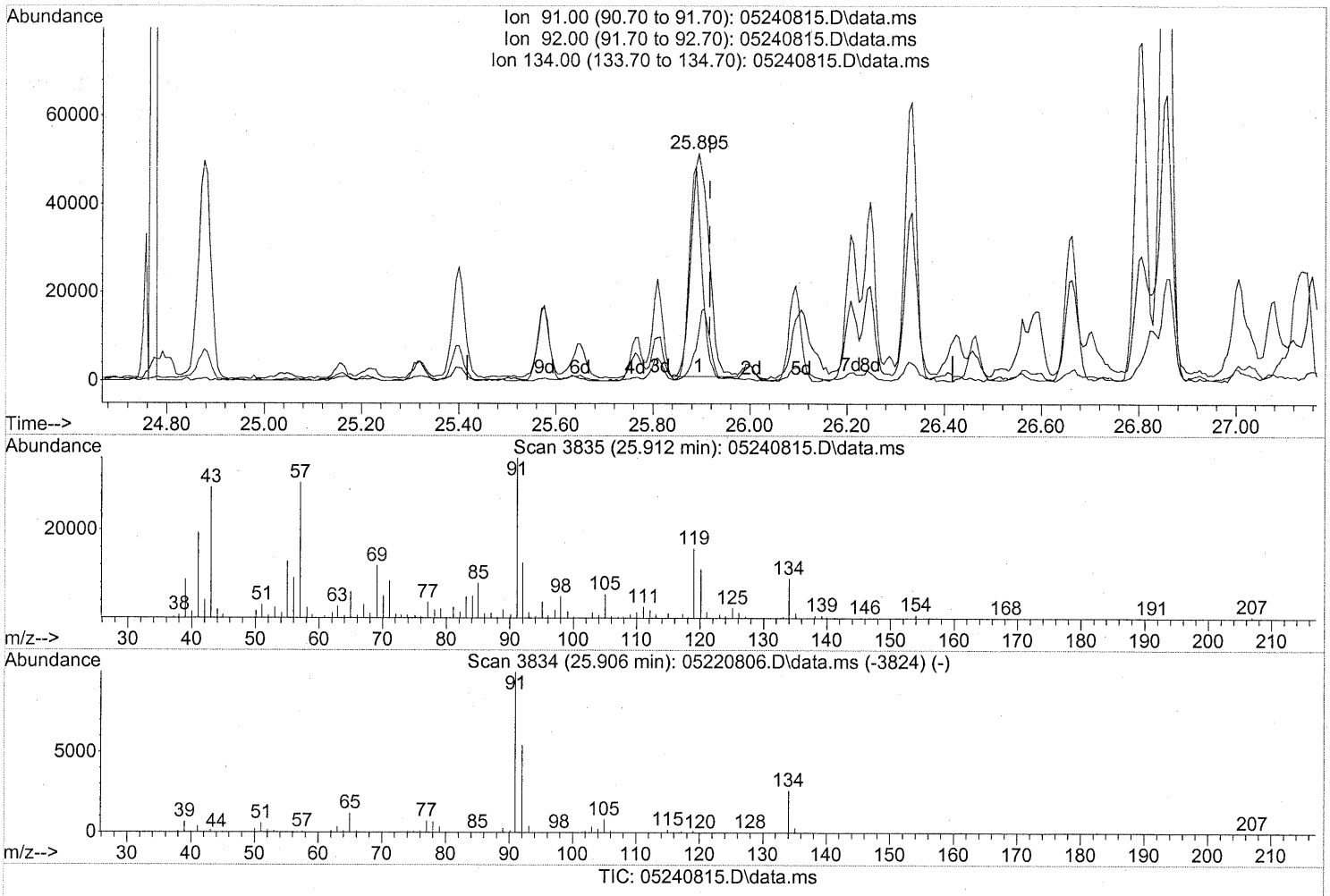
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	542028	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2318224	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1105781	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	13.73	65	867896	23.109	ng		-0.02
Spiked Amount 25.000			Recovery = 92.44%				
5) Toluene-d8 (SS2)	18.92	98	2429089	24.460	ng		-0.02
Spiked Amount 25.000			Recovery = 97.84%				
6) Bromofluorobenzene (SS3)	23.29	174	1023064	25.333	ng		0.00
Spiked Amount 25.000			Recovery = 101.32%				
Target Compounds							Qvalue
7) tert-Butylbenzene	25.16	119	7753	~~0.060~~	ng	UR	99
8) n-Butylbenzene	25.89	91	129447	0.901	ng	#	45

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240815.D
Acq On : 24 May 2008 16:42
Operator : WA
Sample : P0801442-006 (1000ml)
Misc : ENSR SG88B-05 (-3.7, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 25 20:36:54 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240815.D\data.ms

(8) n-Butylbenzene

25.895min (-0.023) 0.90ng

response 129447

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	24.47#
134.00	28.80	70.27#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG72B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801442
CAS Sample ID: P0801442-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00329

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)
0.25 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)**	**2.0**	0.79	0.079	**0.41**	0.16	0.016	
74-87-3	**Chloromethane**	**0.23**	0.16	0.079	**0.11**	0.077	0.038	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.085**	0.79	0.079	**0.012**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	**Bromomethane**	**0.72**	0.16	0.079	**0.19**	0.041	0.020	
75-00-3	**Chloroethane**	**0.77**	0.16	0.079	**0.29**	0.060	0.030	
64-17-5	**Ethanol**	**4.3**	7.9	0.079	**2.3**	4.2	0.042	**J**
67-64-1	**Acetone**	**17**	7.9	0.12	**7.0**	3.3	0.049	**B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.16	0.079	**0.27**	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	**1,1-Dichloroethene**	**72**	0.16	0.079	**18**	0.040	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.9**	0.79	0.12	**0.64**	0.26	0.039	
75-09-2	**Methylene Chloride**	**0.54**	0.79	0.079	**0.16**	0.23	0.023	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.16	0.088	**0.072**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**4.8**	0.79	0.19	**1.5**	0.25	0.061	
156-60-5	**trans-1,2-Dichloroethene**	**0.085**	0.16	0.079	**0.022**	0.040	0.020	**J**
75-34-3	**1,1-Dichloroethane**	**0.37**	0.16	0.079	**0.091**	0.039	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.079	ND	0.044	0.022	
108-05-4	**Vinyl Acetate**	**29**	7.9	0.25	**8.3**	2.2	0.072	
78-93-3	**2-Butanone (MEK)**	**4.0**	0.79	0.079	**1.4**	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	**Chloroform**	**590**	0.16	0.093	**120**	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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG72B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00329

Date Collected: 5/14/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)
0.25 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	0.79	0.081	ND	0.19	0.019	
107-06-2	**1,2-Dichloroethane**	**0.15**	0.16	0.079	**0.036**	0.039	0.020	**J**
71-55-6	**1,1,1-Trichloroethane**	**0.53**	0.16	0.079	**0.098**	0.029	0.014	
71-43-2	**Benzene**	**5.4**	0.16	0.079	**1.7**	0.049	0.025	
56-23-5	**Carbon Tetrachloride**	**7.5**	0.16	0.079	**1.2**	0.025	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	**1,2-Dichloropropane**	**0.99**	0.16	0.079	**0.21**	0.034	0.017	
75-27-4	**Bromodichloromethane**	**12**	0.16	0.079	**1.7**	0.024	0.012	
79-01-6	**Trichloroethene**	**5.0**	0.16	0.079	**0.93**	0.029	0.015	
123-91-1	**1,4-Dioxane**	**0.27**	0.79	0.096	**0.074**	0.22	0.027	**J**
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	**n-Heptane**	**1.1**	0.79	0.10	**0.26**	0.19	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**0.35**	0.79	0.088	**0.086**	0.19	0.022	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	**1,1,2-Trichloroethane**	**0.53**	0.16	0.079	**0.097**	0.029	0.014	
108-88-3	**Toluene**	**5.3**	0.79	0.079	**1.4**	0.21	0.021	
591-78-6	**2-Hexanone**	**0.84**	0.79	0.12	**0.20**	0.19	0.029	
124-48-1	**Dibromochloromethane**	**1.2**	0.16	0.11	**0.15**	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	n-Octane	ND	0.79	0.079	ND	0.17	0.017	
127-18-4	**Tetrachloroethene**	**280**	0.16	0.079	**41**	0.023	0.012	
108-90-7	**Chlorobenzene**	**3.3**	0.16	0.081	**0.72**	0.034	0.018	

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

Verified By: RL Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG72B-05** CAS Sample ID: P0801442-007
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/14/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 1.00 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.25 Liter(s)
Test Notes:
Container ID: SC00329

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

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.96**	0.79	0.098	**0.22**	0.18	0.023	
179601-23-1	**m,p-Xylenes**	**5.7**	0.79	0.21	**1.3**	0.18	0.047	
75-25-2	Bromoform	ND	0.79	0.12	ND	0.076	0.012	
100-42-5	**Styrene**	**0.21**	0.79	0.12	**0.049**	0.19	0.028	**J**
95-47-6	**o-Xylene**	**2.5**	0.79	0.10	**0.57**	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	**Cumene**	**0.12**	0.79	0.088	**0.024**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.18**	0.79	0.082	**0.037**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.33**	0.79	0.090	**0.067**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.46**	0.79	0.095	**0.093**	0.16	0.019	**J**
98-83-9	**alpha-Methylstyrene**	**0.21**	0.79	0.12	**0.044**	0.16	0.024	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**	0.79	0.11	**0.30**	0.16	0.022	
100-44-7	**Benzyl Chloride**	**0.14**	0.16	0.14	**0.027**	0.031	0.026	**J**
541-73-1	**1,3-Dichlorobenzene**	**2.4**	0.16	0.098	**0.40**	0.026	0.016	
106-46-7	**1,4-Dichlorobenzene**	**60**	0.16	0.088	**9.9**	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.092	ND	0.14	0.017	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.47**	0.79	0.10	**0.086**	0.14	0.019	**J**
95-50-1	**1,2-Dichlorobenzene**	**16**	0.16	0.10	**2.7**	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	**1,2,4-Trichlorobenzene**	**1.9**	0.16	0.12	**0.26**	0.021	0.016	
91-20-3	**Naphthalene**	**1.4**	0.32	0.12	**0.27**	0.060	0.022	
87-68-3	**Hexachlorobutadiene**	**46**	0.16	0.14	**4.3**	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	**n-Butylbenzene**	**0.44**	0.32	0.079	**0.081**	0.058	0.014	

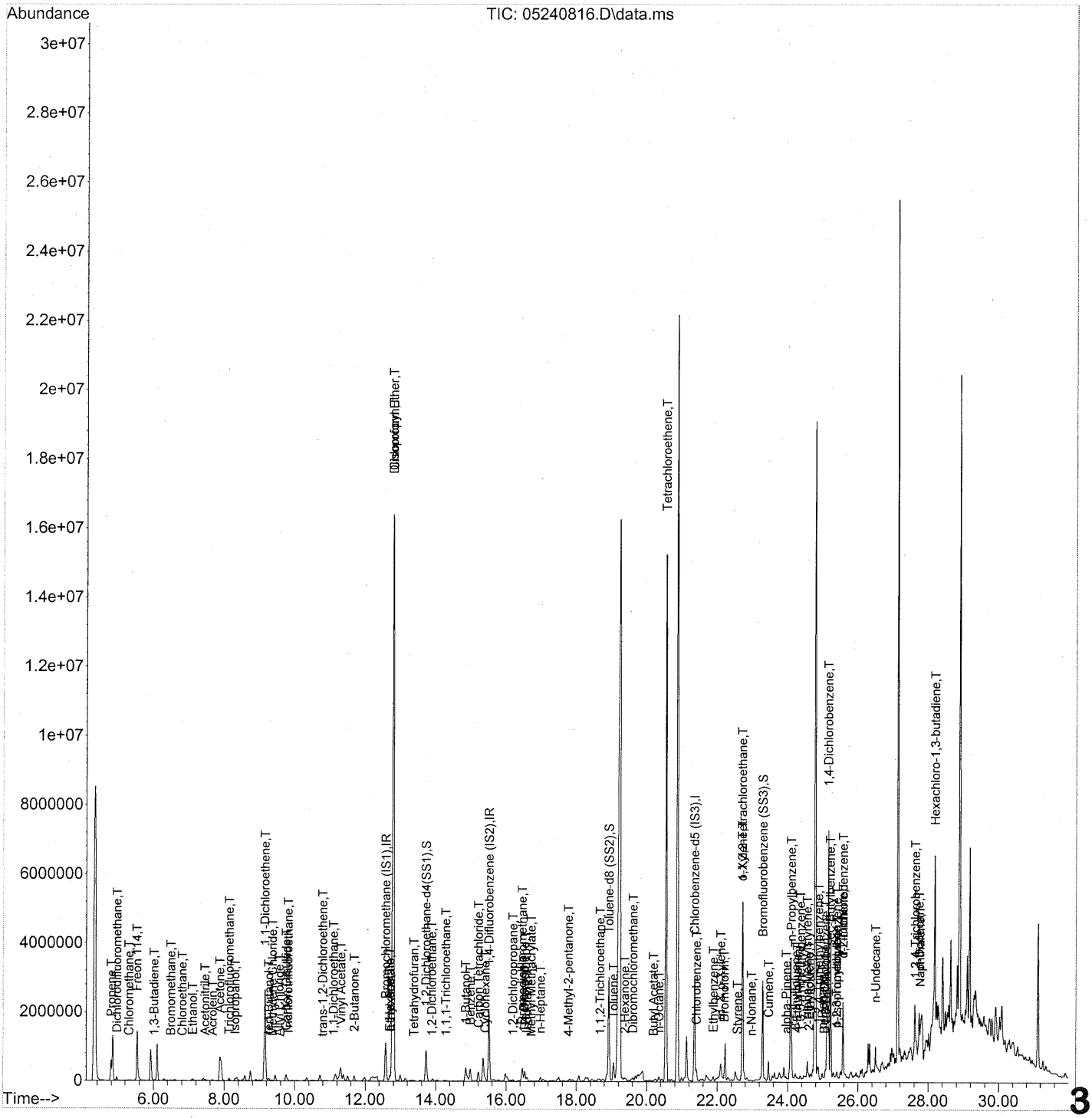
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: RG Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	585660	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2449883	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1168878	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	903459	22.264	ng		0.00
Spiked Amount 25.000			Recovery =	89.04%			
57) Toluene-d8 (SS2)	18.93	98	2564155	24.426	ng		0.00
Spiked Amount 25.000			Recovery =	97.72%			
73) Bromofluorobenzene (SS3)	23.29	174	1091827	25.577	ng		0.00
Spiked Amount 25.000			Recovery =	102.32%			
Target Compounds							Qvalue
2) Propene	4.80	42	284318	6.147	ng		98
3) Dichlorodifluoromethane	4.96	85	108000	1.267	ng		98
4) Chloromethane	5.31	50	7952	0.144	ng		96
5) Freon 114	5.53	135	2252	0.054	ng	#	43
6) Vinyl Chloride	5.74	62	1088	N.D.			
7) 1,3-Butadiene	6.02	54	7890	0.192	ng	#	69
8) Bromomethane	6.49	94	14018	0.456	ng		99
9) Chloroethane	6.82	64	12740	0.486	ng		98
10) Ethanol	7.11	45	83418m	2.709	ng		
11) Acetonitrile	7.46	41	66756	0.750	ng		95
12) Acrolein	7.67	56	26891	1.222	ng	#	73
13) Acetone	7.88	58	333219m	10.569	ng		
14) Trichlorofluoromethane	8.14	101	70729	0.967	ng		99
15) Isopropanol	8.32	45	147341	1.465	ng		92
16) Acrylonitrile	8.65	53	2287	N.D.			
17) 1,1-Dichloroethene	9.15	96	1462653	45.458	ng	#	75
18) tert-Butanol	9.27	59	104352	1.220	ng		86
19) Methylene Chloride	9.37	84	12092	0.343	ng	#	73
20) Allyl Chloride	9.56	41	2536	~~0.054 ng~~ NR		#	44
21) Trichlorotrifluoroethane	9.81	151	11660	0.351	ng		94
22) Carbon Disulfide	9.76	76	403659	3.019	ng		99
23) trans-1,2-Dichloroethene	10.80	61	2802	0.054	ng		82
24) 1,1-Dichloroethane	11.10	63	14319	0.234	ng		95
25) Methyl tert-Butyl Ether	11.21	73	3202	N.D.			
26) Vinyl Acetate	11.31	86	107296	18.415	ng	#	1
27) 2-Butanone	11.69	72	58958	2.562	ng	#	88
28) cis-1,2-Dichloroethene	12.34	61	1757	N.D.			
29) Diisopropyl Ether	12.79	87	2155642	~~76.453 ng~~ NR		#	1
30) Ethyl Acetate	12.70	61	1599	0.129	ng	#	50
31) n-Hexane	12.70	57	94876	1.514	ng		88

5/29/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	18469131	~~345.831 ng~~ see dil		95
34) Tetrahydrofuran	13.39	72	4848	0.220 ng	#	44
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	4809	0.093 ng		90
38) 1,1,1-Trichloroethane	14.29	97	18775	0.337 ng		93
39) Isopropyl Acetate	14.84	61	295	N.D.		
40) 1-Butanol	14.85	56	319781	9.496 ng		91
41) Benzene	14.99	78	435488	3.395 ng		99
42) Carbon Tetrachloride	15.21	117	233284	4.722 ng		99
43) Cyclohexane	15.41	84	35930	0.720 ng	#	1
44) tert-Amyl Methyl Ether	15.87	73	187	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	21543	0.628 ng		99
46) Bromodichloromethane	16.46	83	316049	7.289 ng		99
47) Trichloroethene	16.53	130	124925	3.175 ng		99
48) 1,4-Dioxane	16.51	88	4091	0.169 ng		98
49) Isooctane	16.60	57	68430	0.465 ng	#	1
50) Methyl Methacrylate	16.72	100	3495	~~0.273 ng~~ NR	#	1
51) n-Heptane	16.98	71	22999	0.675 ng	#	82
52) cis-1,3-Dichloropropene	17.81	75	1460	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	7589	0.223 ng		94
54) trans-1,3-Dichloropropene	18.45	75	667	N.D. ✓		
55) 1,1,2-Trichloroethane	18.68	97	10647	0.336 ng		99
58) Toluene	19.06	91	480331	3.366 ng		96
59) 2-Hexanone	19.38	43	51969	0.529 ng	#	61
60) Dibromochloromethane	19.62	129	30219	0.784 ng		97
61) 1,2-Dibromoethane	19.82	107	53	N.D. ✓		
62) Butyl Acetate	20.19	43	9782	0.098 ng	#	58
63) n-Octane	~~20.35~~	57	7184	~~0.228 ng~~ NR		97
64) Tetrachloroethene	20.55	166	6001364	~~142.132 ng~~ see dil		99
65) Chlorobenzene	21.41	112	201292	2.104 ng		100
66) Ethylbenzene	21.89	91	99184	0.606 ng		94
67) m- & p-Xylene	22.10	91	396425	3.622 ng		94
68) Bromoform	22.21	173	2046	0.071 ng < MDL		97
69) Styrene	22.58	104	12825	0.131 ng		94
70) o-Xylene	22.71	91	184848	1.565 ng		99
71) n-Nonane	22.98	43	10040	0.120 ng	#	20
72) 1,1,2,2-Tetrachloroethane	22.71	83	2964	~~0.060 ng~~ NR	#	1
74) Cumene	23.46	105	11909	0.076 ng		98
75) alpha-Pinene	23.97	93	9686	0.119 ng	#	46
76) n-Propylbenzene	24.10	91	22952	0.115 ng	#	1
77) 3-Ethyltoluene	24.23	105	76022	0.454 ng		99
78) 4-Ethyltoluene	24.28	105	32700	0.209 ng		94
79) 1,3,5-Trimethylbenzene	24.37	105	40952	0.290 ng		99

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	10338	0.135 ng	#	24
81) 2-Ethyltoluene	24.61	105	38757	0.228 ng		95
82) 1,2,4-Trimethylbenzene	24.88	105	132313	0.921 ng		89
83) n-Decane	24.98	57	56078	0.710 ng		71
84) Benzyl Chloride	25.04	91	8493	0.088 ng		100
85) 1,3-Dichlorobenzene	25.08	146	136363	1.519 ng		99
86) 1,4-Dichlorobenzene	25.16	146	3289716	37.799 ng		100
87) sec-Butylbenzene	25.21	105	10393	0.057 ng	NR#	1
88) p-Isopropyltoluene	25.40	119	44928	0.297 ng		89
89) 1,2,3-Trimethylbenzene	25.40	105	56261	0.400 ng		94
90) 1,2-Dichlorobenzene	25.58	146	880432	10.340 ng		98
91) d-Limonene	25.58	68	55698	0.974 ng		95
92) 1,2-Dibromo-3-Chloropr...	26.09	157	73	N.D. ✓		
93) n-Undecane	26.50	57	296296	3.583 ng	#	64
94) 1,2,4-Trichlorobenzene	27.63	180	75440	1.210 ng		91
95) Naphthalene	27.77	128	167101	0.882 ng		94
96) n-Dodecane	27.74	57	456000	5.545 ng		79
97) Hexachloro-1,3-butadiene	28.19	225	1202428	28.964 ng		99

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

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
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Operator : WA
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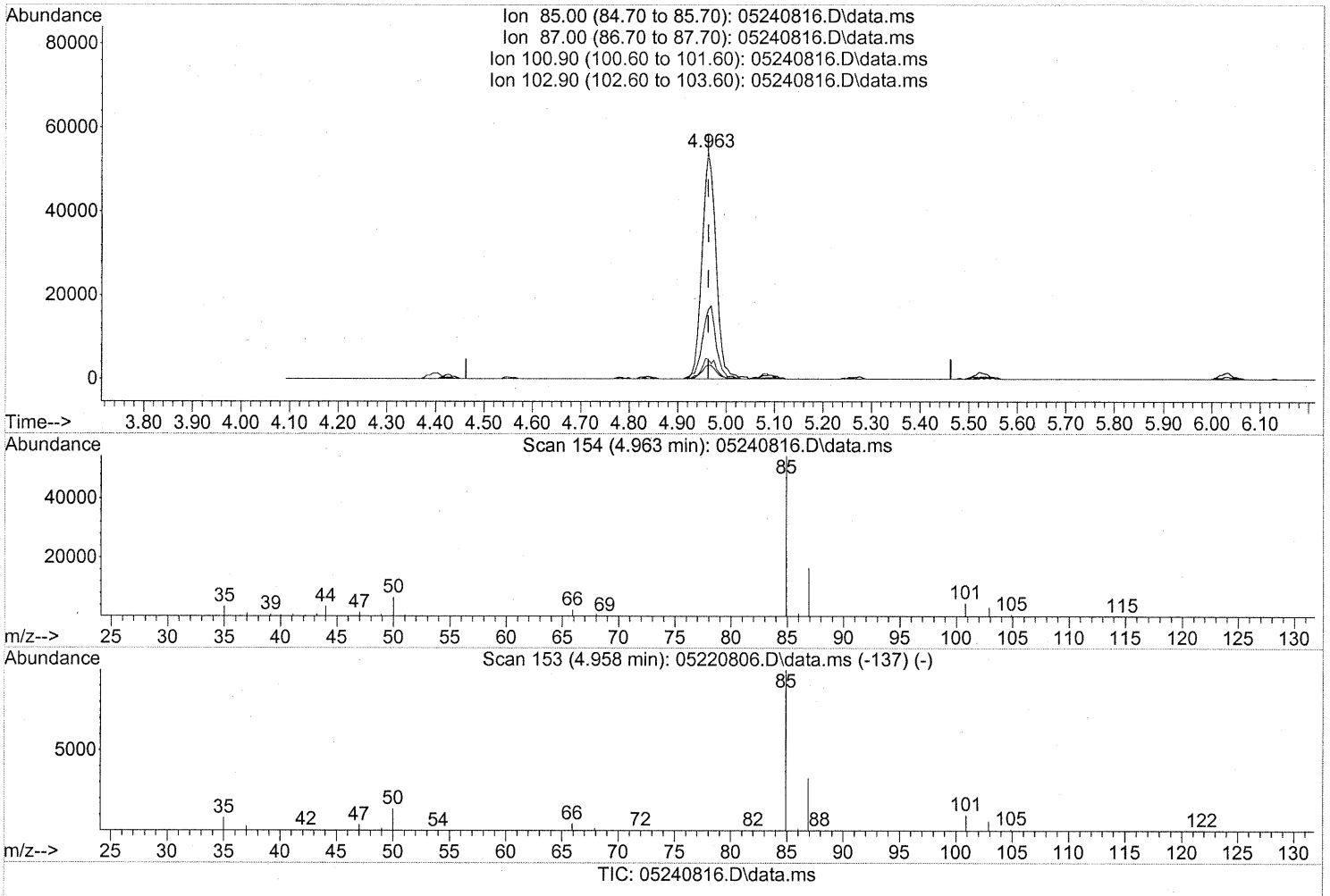
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.27ng

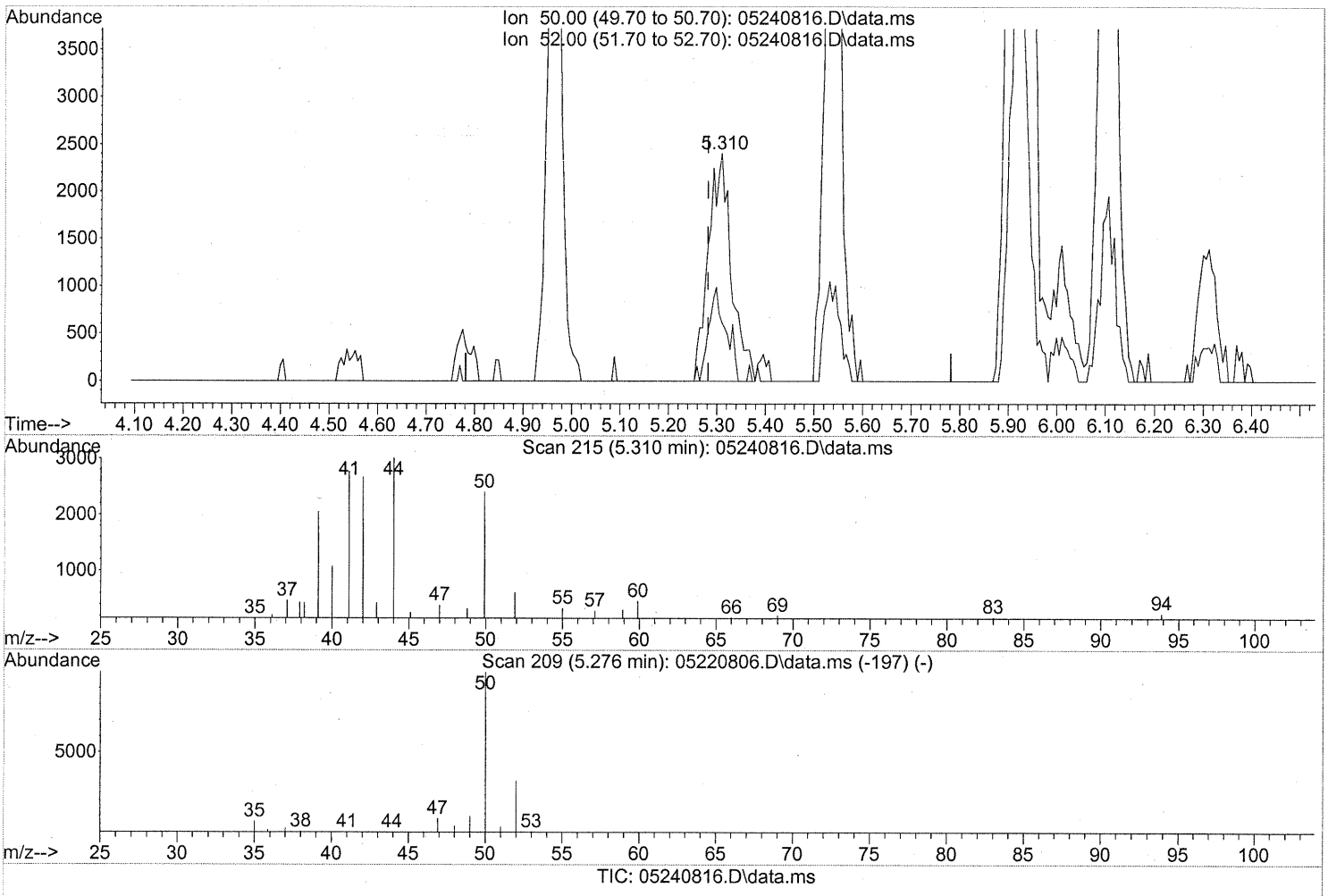
response 108000

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.37
100.90	9.30	9.02
102.90	6.00	5.93

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(4) Chloromethane (T)

5.310min (+0.028) 0.14ng

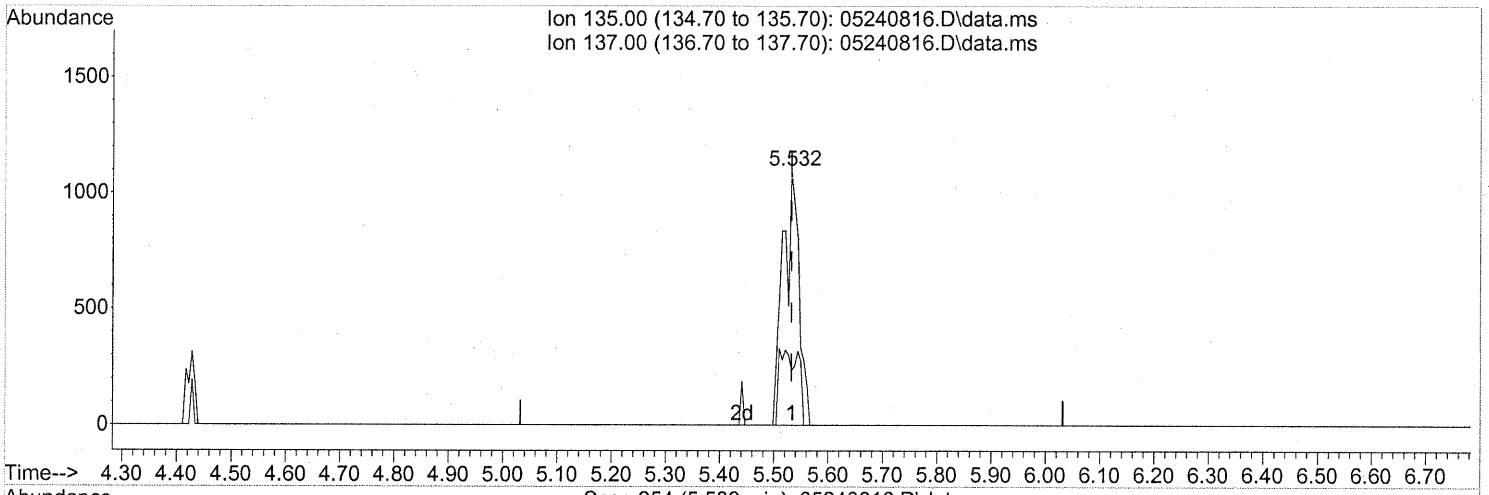
response 7952

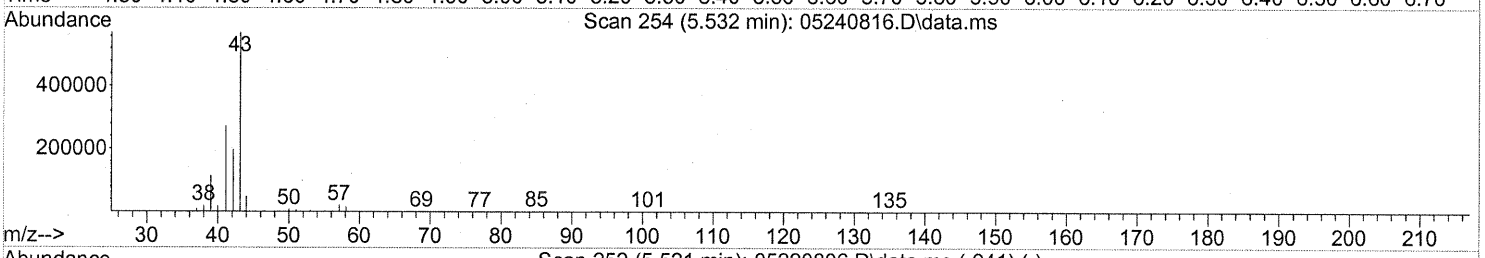
Ion	Exp%	Act%
50.00	100	100
52.00	33.70	31.24
0.00	0.00	0.00
0.00	0.00	0.00

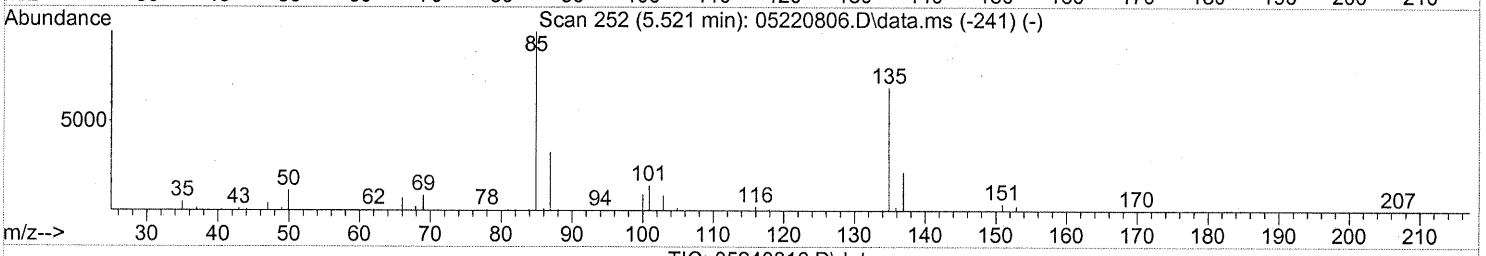
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(5) Freon 114 (T)

5.532min (-0.000) 0.05ng

response 2252

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

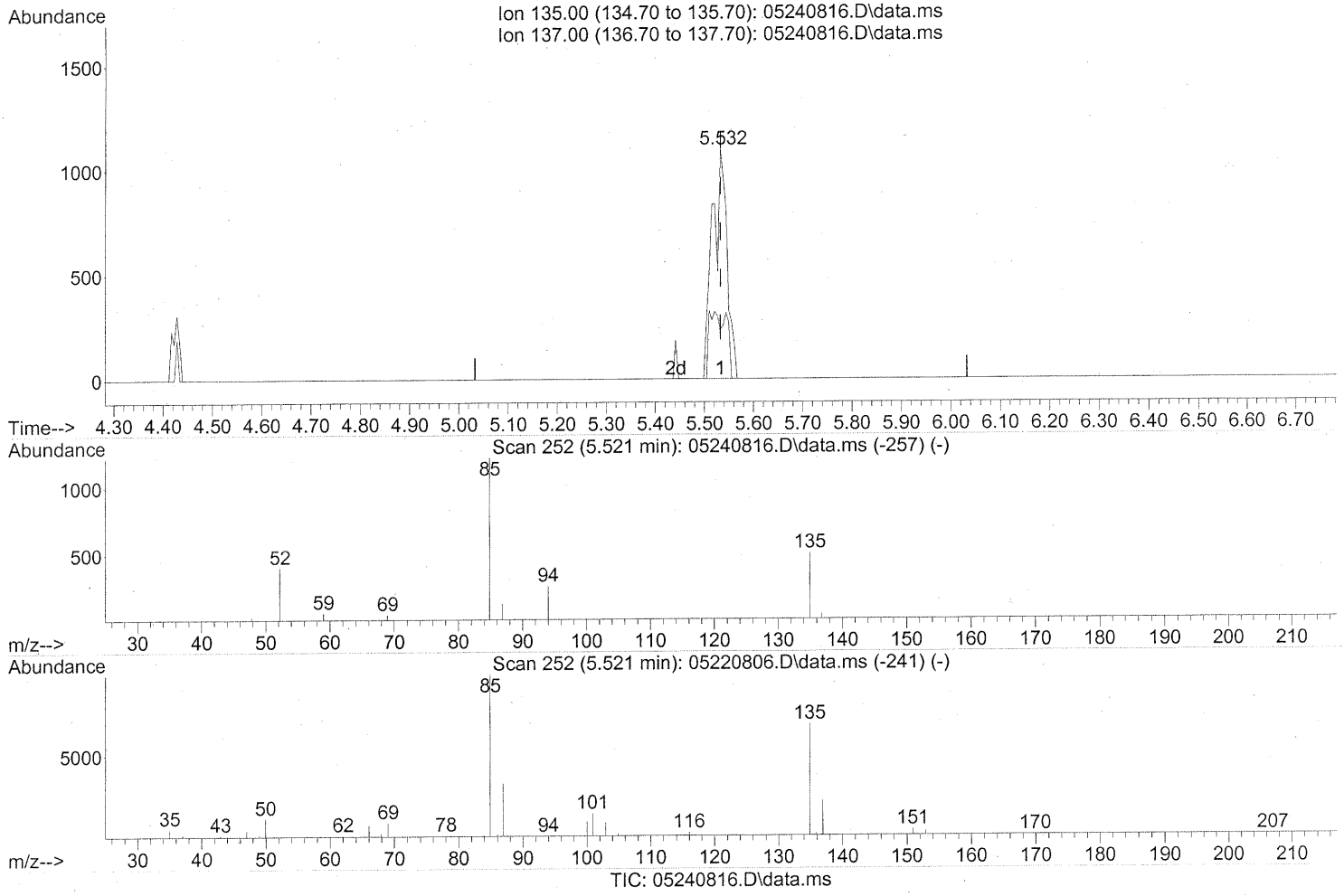
~~Std blown up~~ before

391

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801422-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:44:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(5) Freon 114 (T)

5.532min (-0.000) 0.05ng

response 2252

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

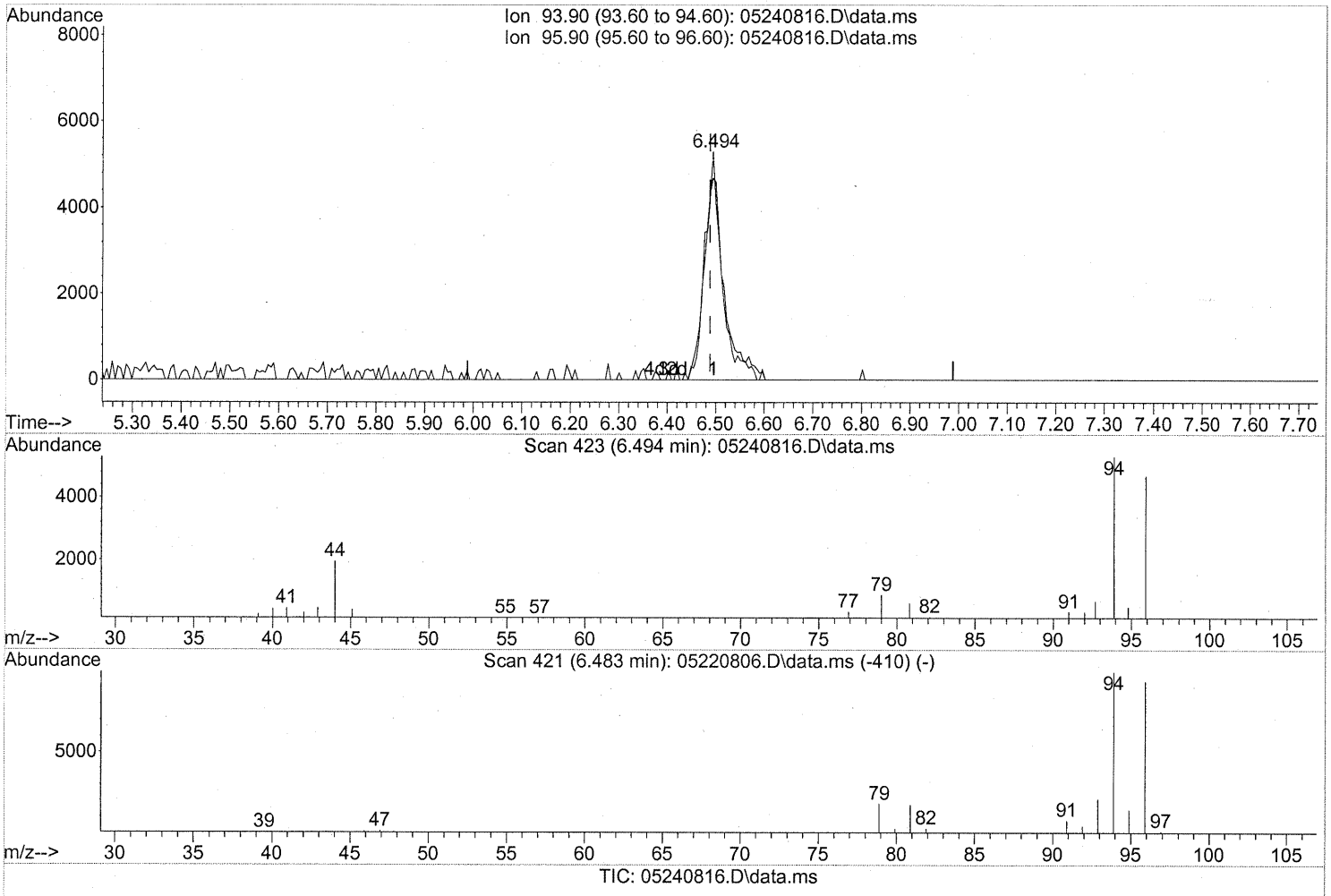
5/29/08

5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(8) Bromomethane (T)

6.494min (+0.006) 0.46ng

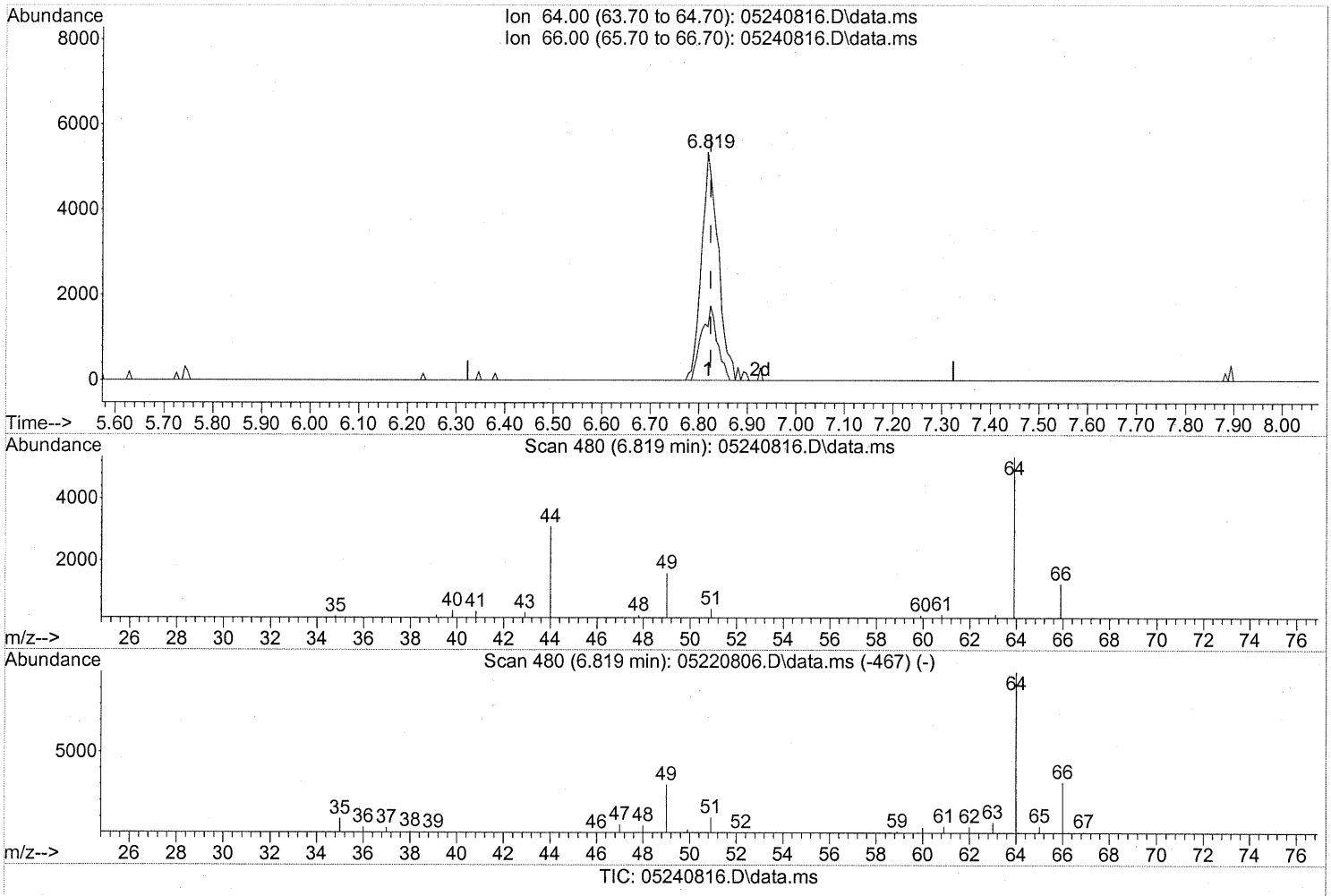
response 14018

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	91.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(9) Chloroethane (T)

6.819min (-0.006) 0.49ng

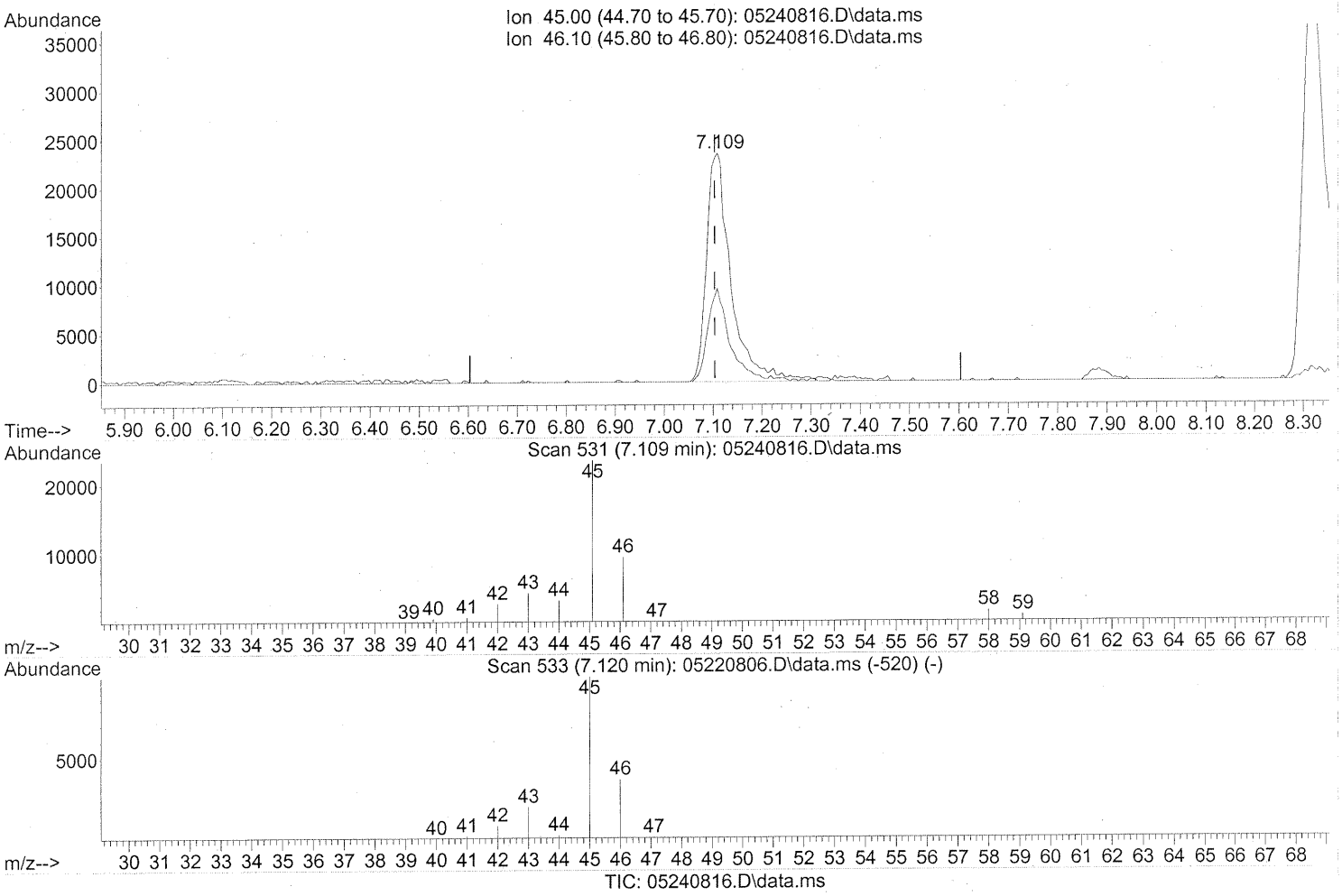
response 12740

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	30.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801422-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:44:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(10) Ethanol (T)

7.109min (+0.006) 2.63ng

response 80876

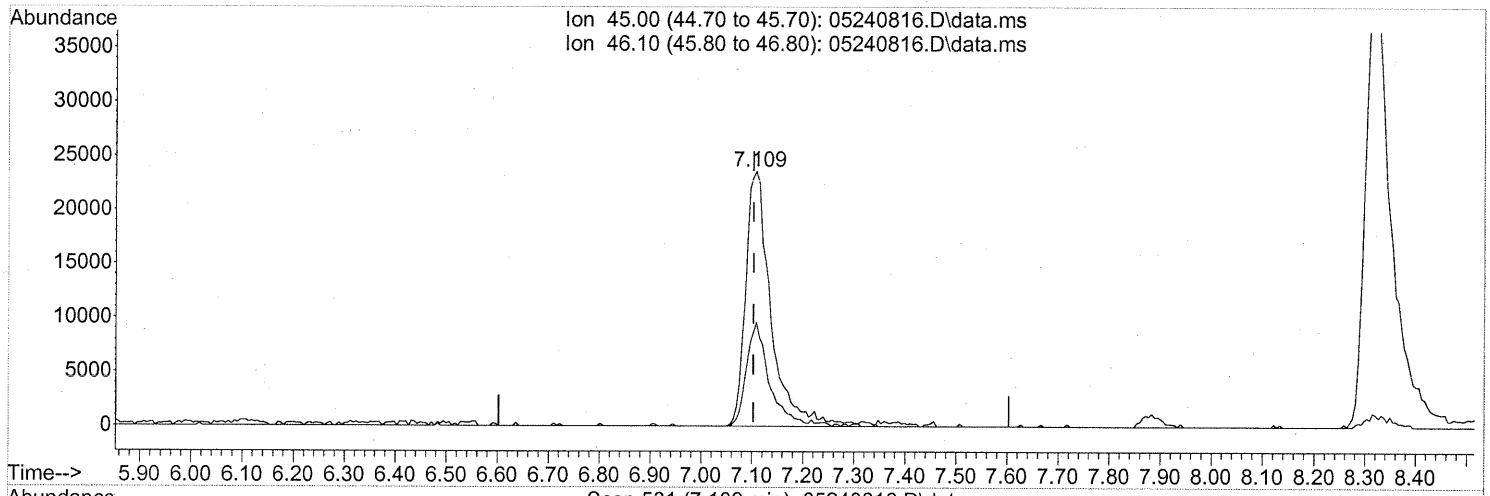
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.07
0.00	0.00	0.00
0.00	0.00	0.00

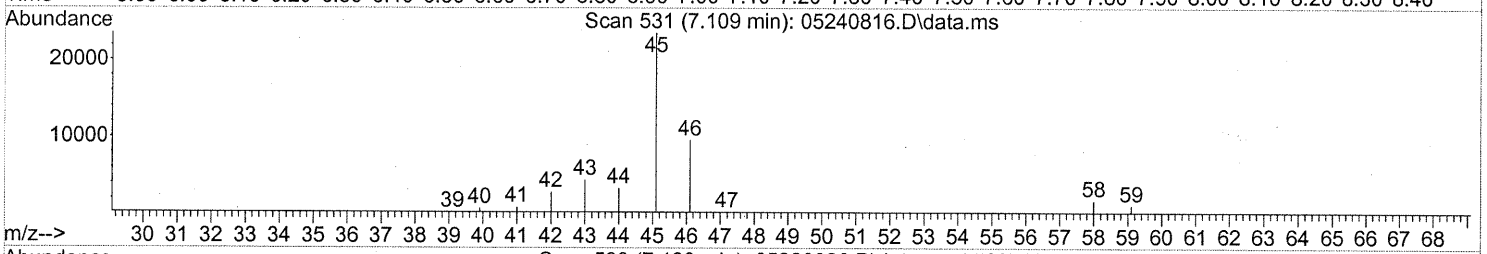
tailing

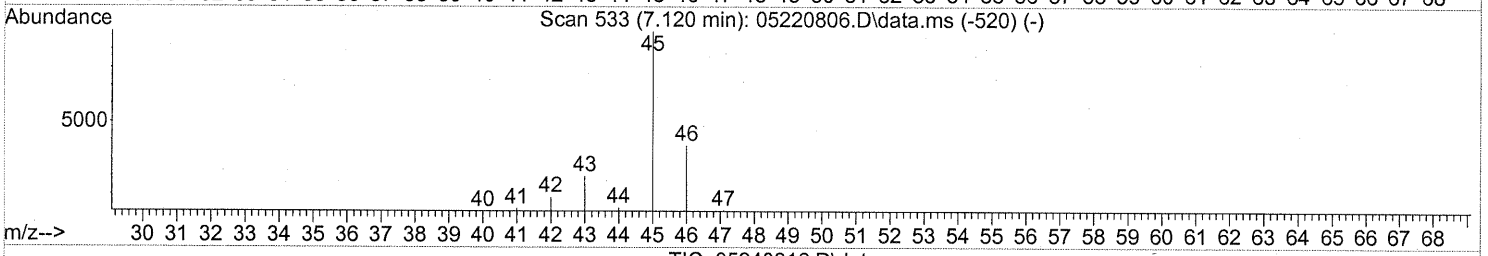
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(10) Ethanol (T)

7.109min (+0.006) 2.71ng m

response 83418

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.97
0.00	0.00	0.00
0.00	0.00	0.00

ind. tailing

DH 5/29/08

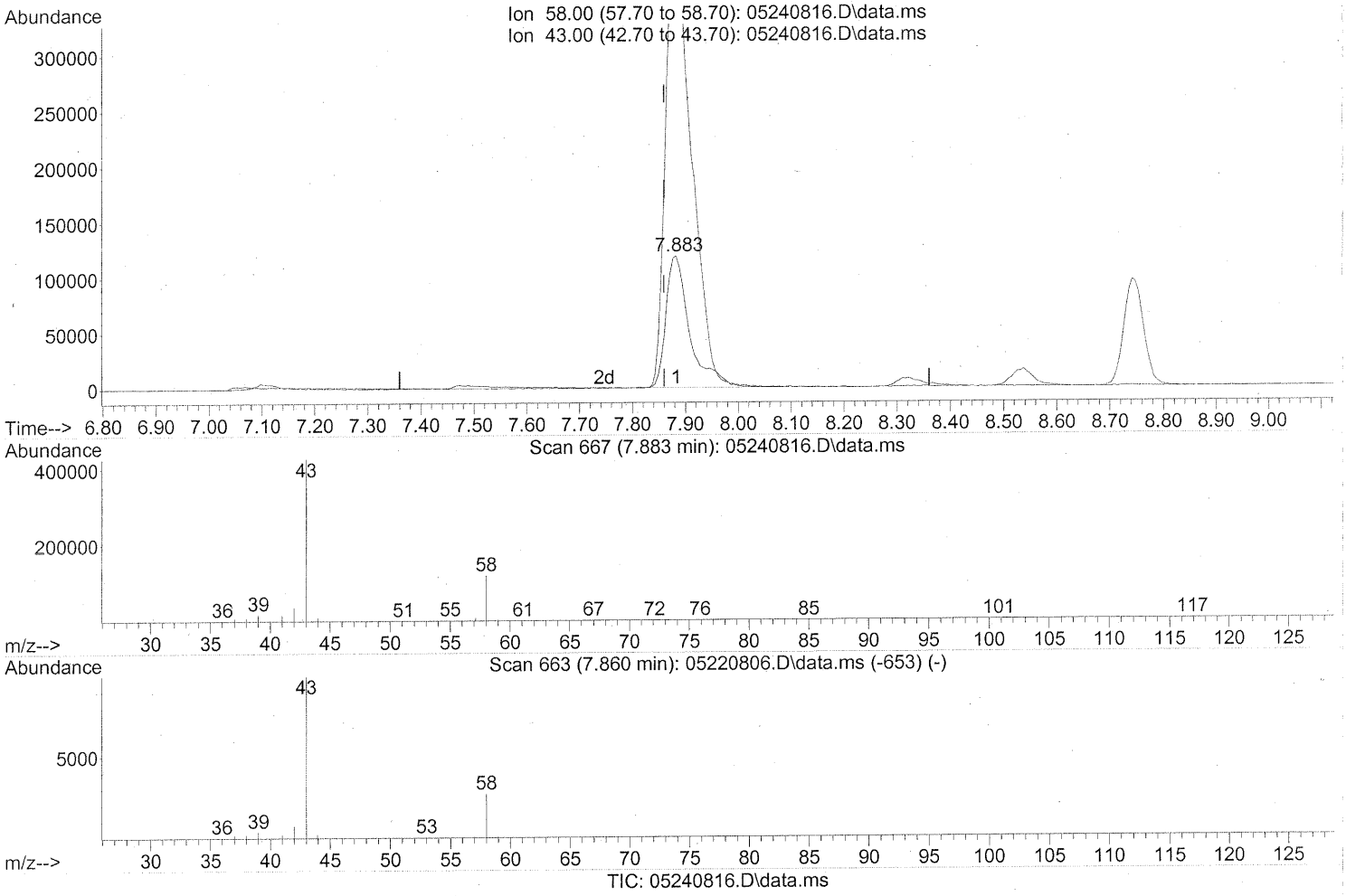
WA 5/30/08

396

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801422-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:44:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.883min (+0.023) 11.73ng

response 369687

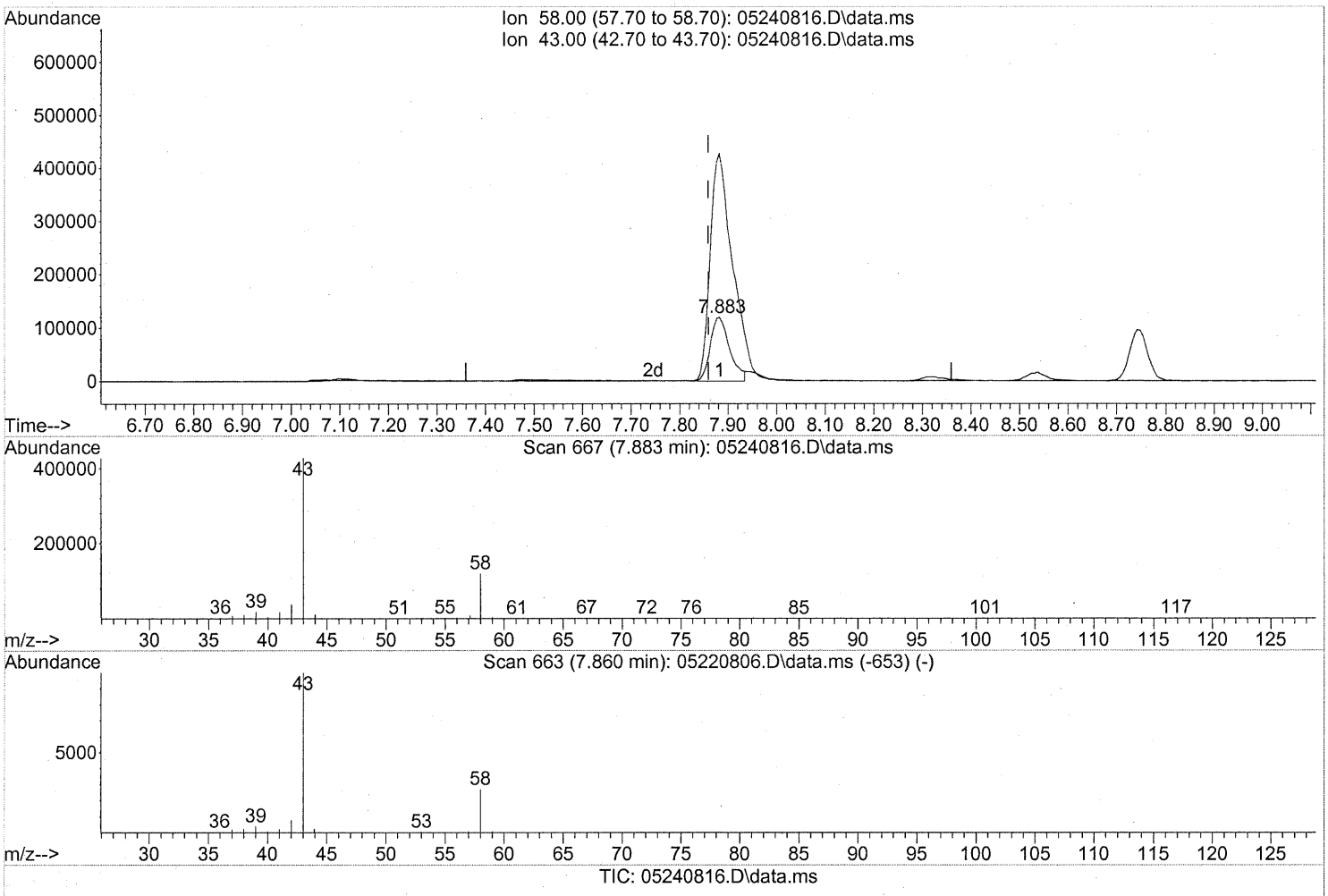
interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	376.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(13) Acetone (T)

7.883min (+0.023) 10.57ng m

response 333219

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	417.40#
0.00	0.00	0.00
0.00	0.00	0.00

0. shoulder

DA 5/29/08

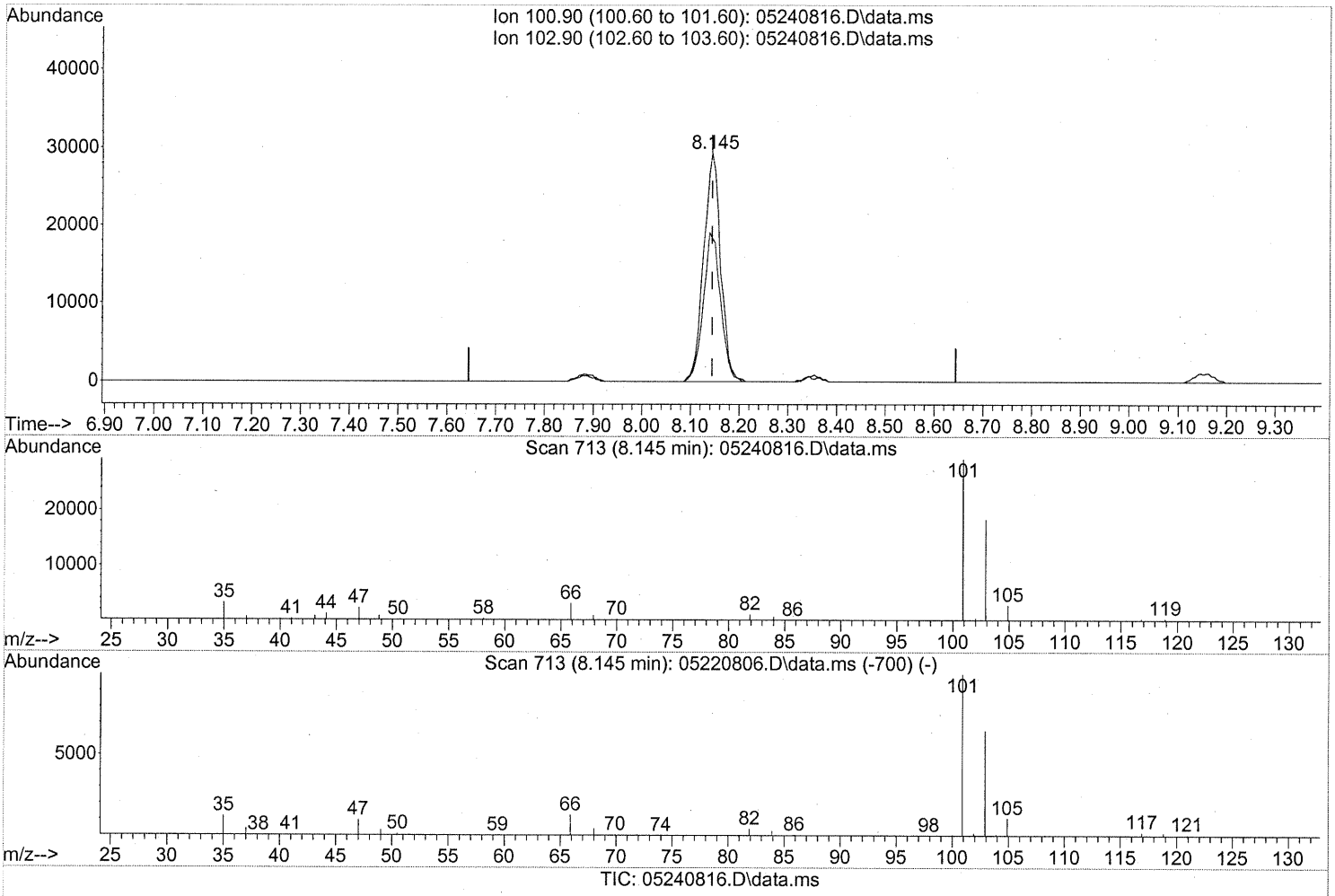
WA 5/30/08

398

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.97ng

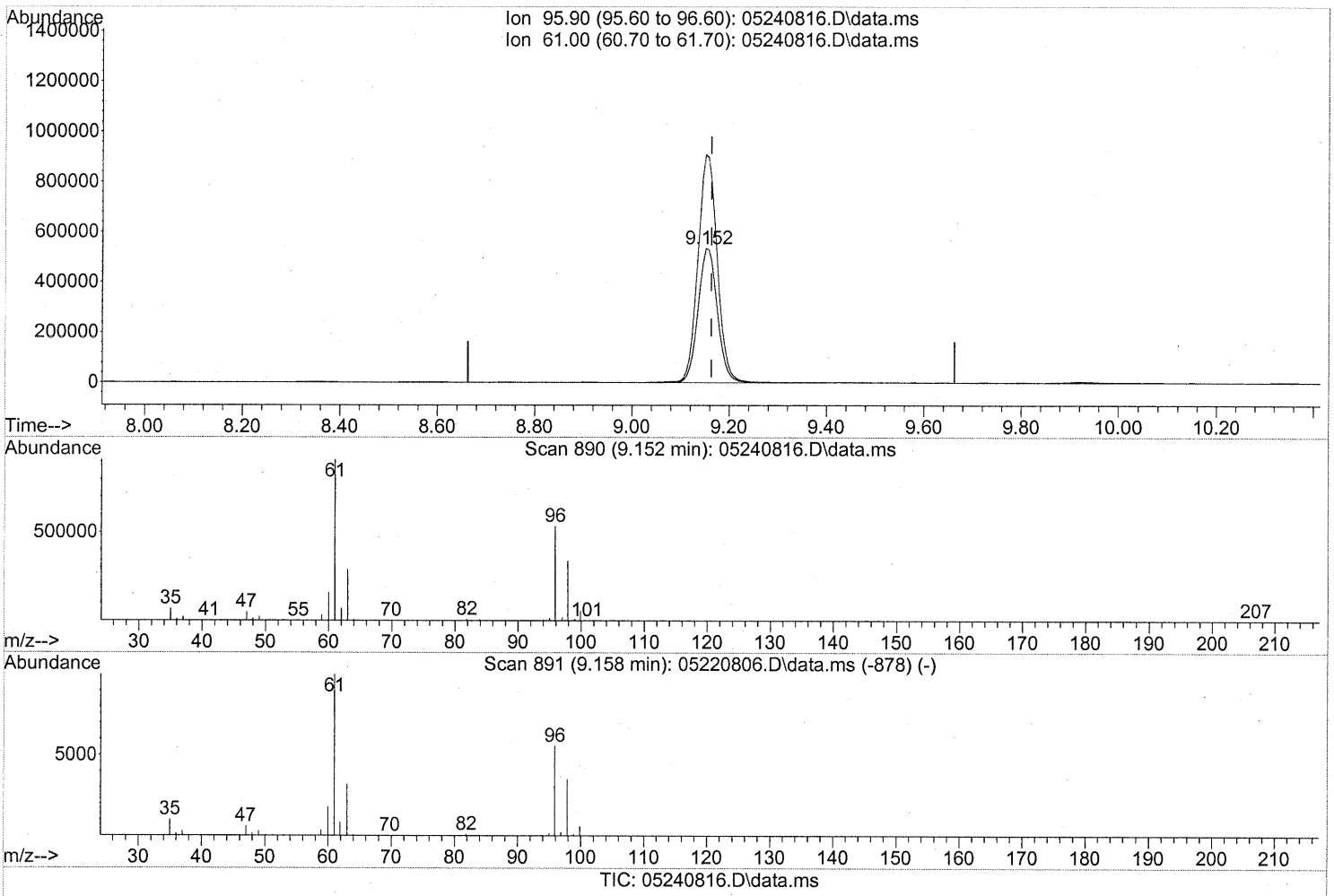
response 70729

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(17) 1,1-Dichloroethene (T)

9.152min (-0.011) 45.46ng

response 1462653

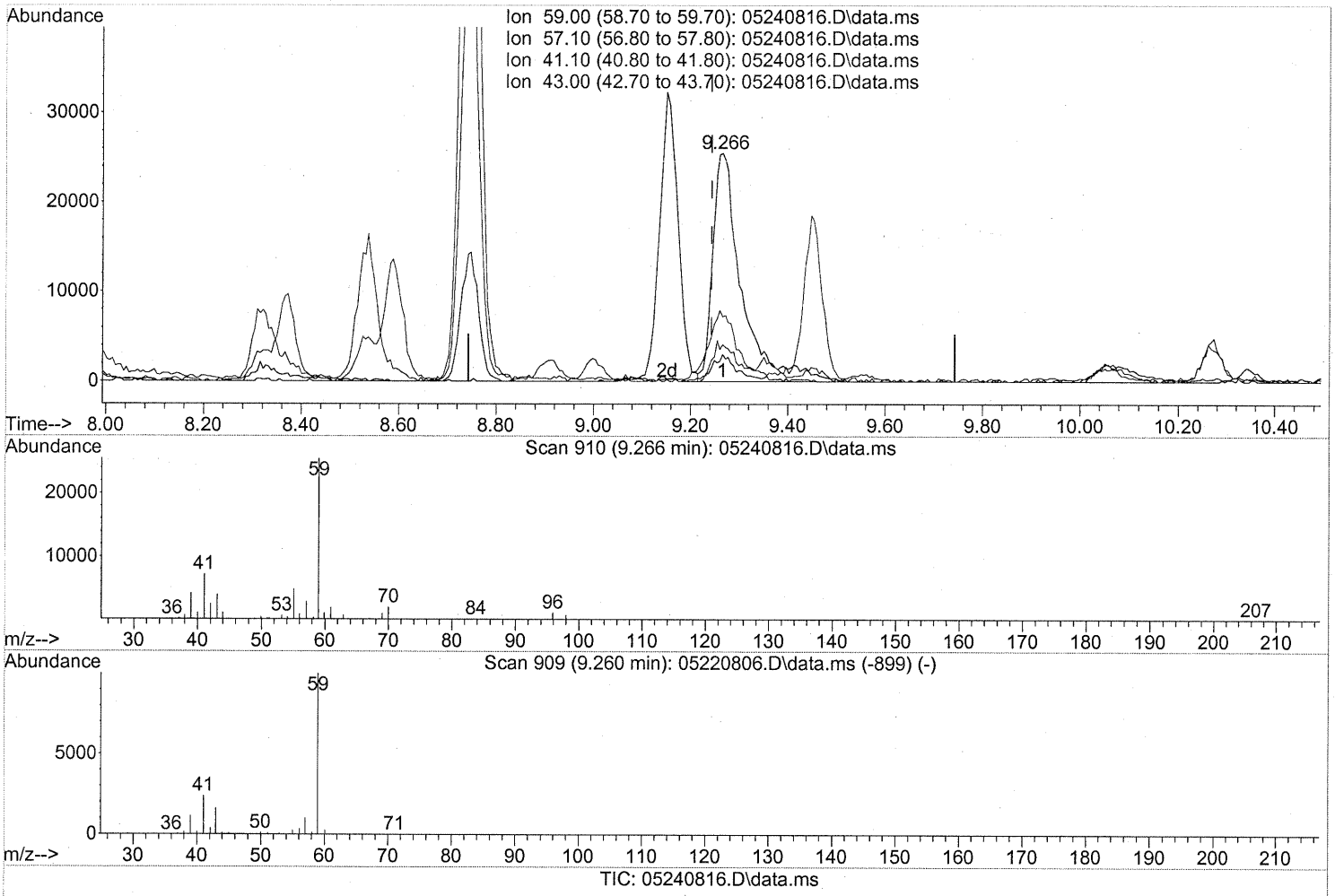
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	170.64#
0.00	0.00	0.00
0.00	0.00	0.00

400

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 1.22ng

response 104352

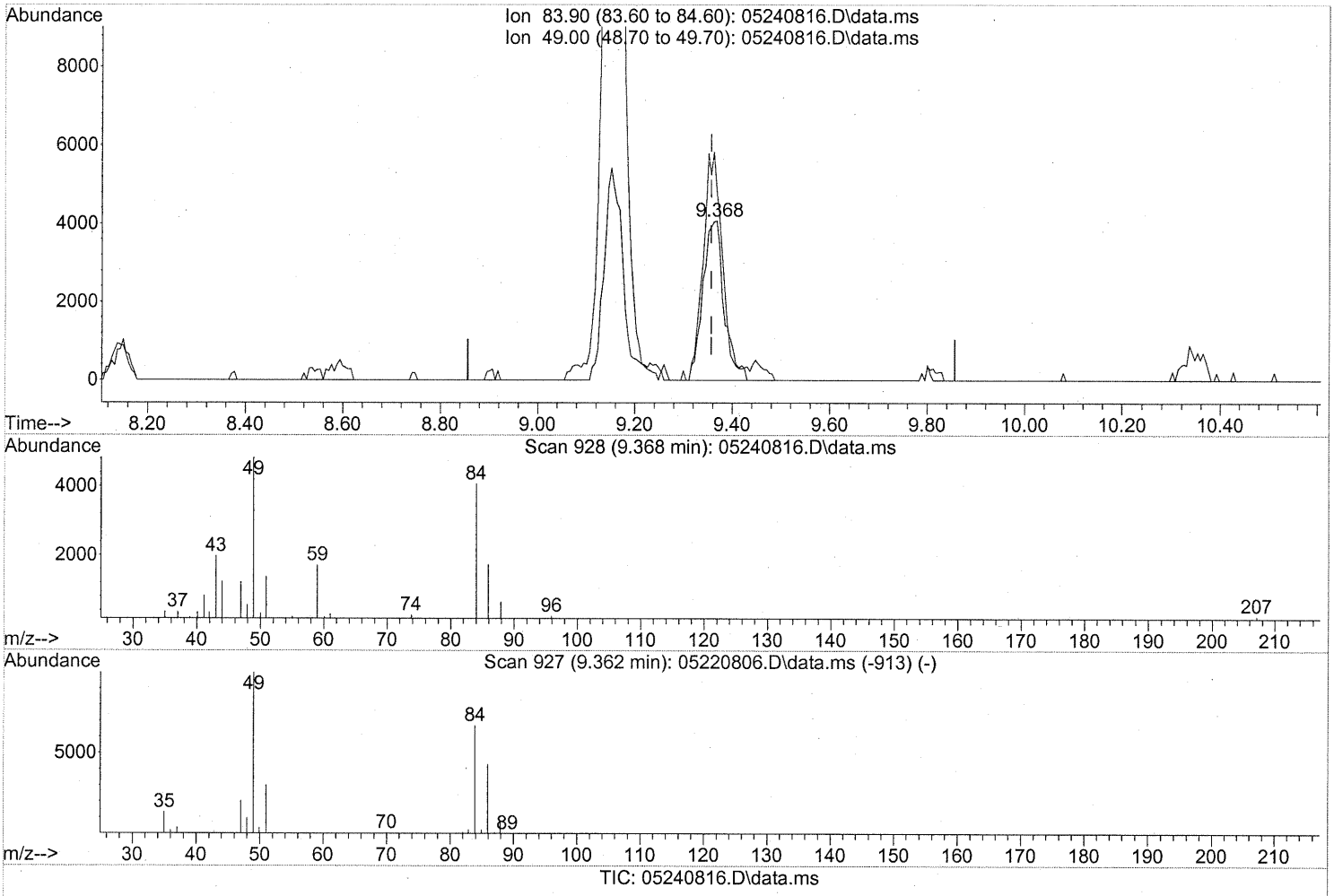
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	9.92
41.10	20.10	31.55
43.00	12.30	15.58

401

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.34ng

response 12092

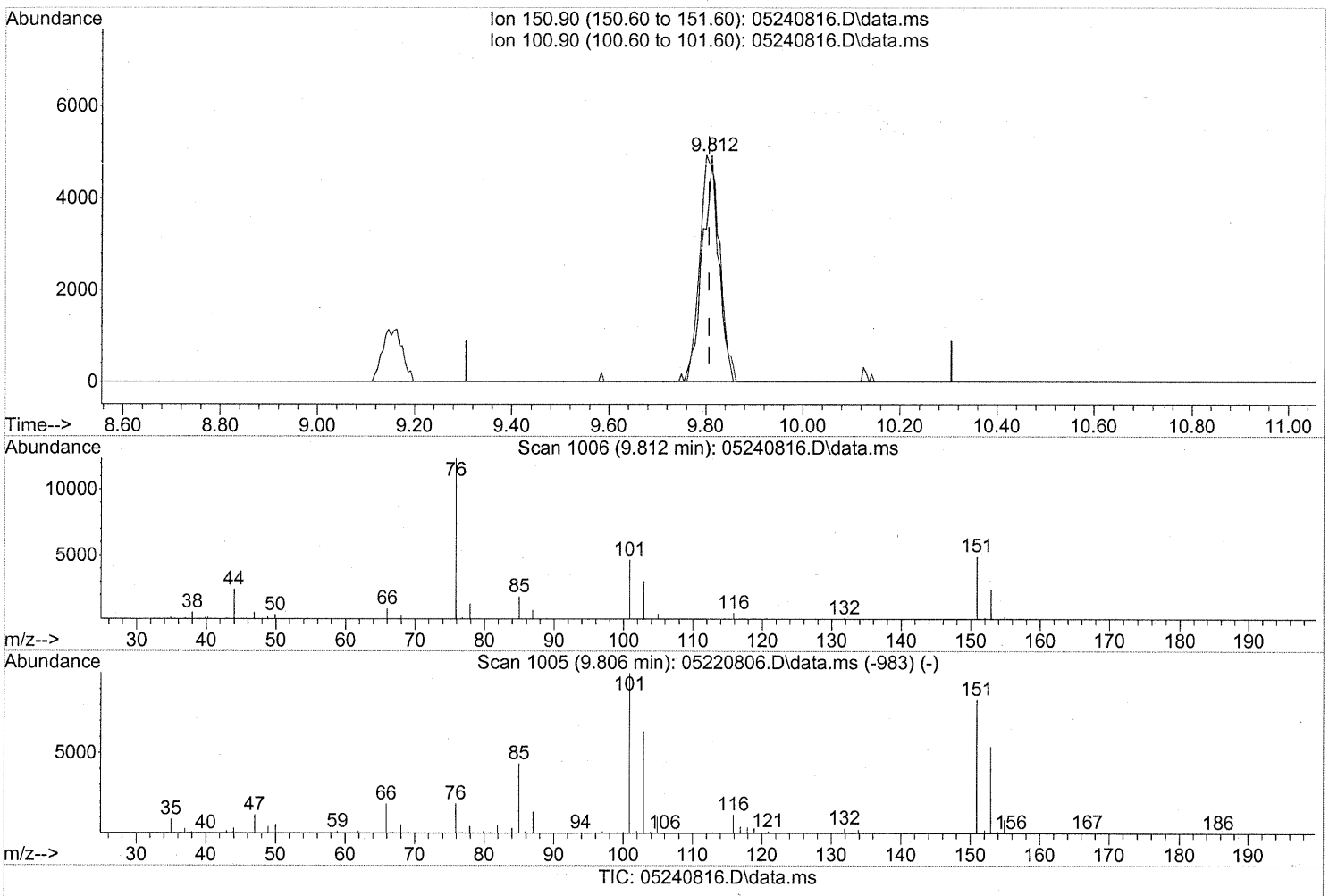
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	135.97#
0.00	0.00	0.00
0.00	0.00	0.00

402

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.35ng

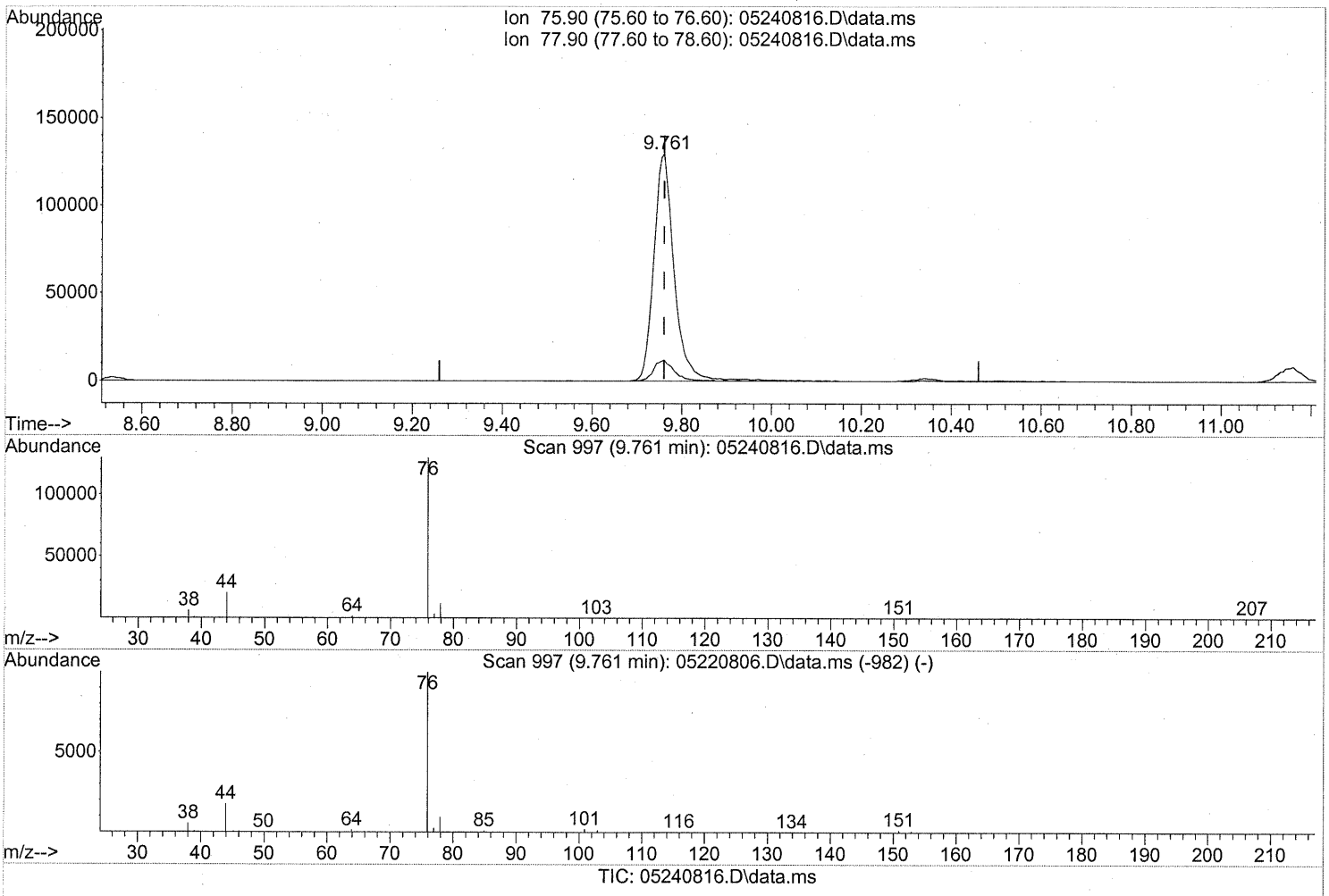
response 11660

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	119.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(22) Carbon Disulfide (T)

9.761min (-0.000) 3.02ng

response 403659

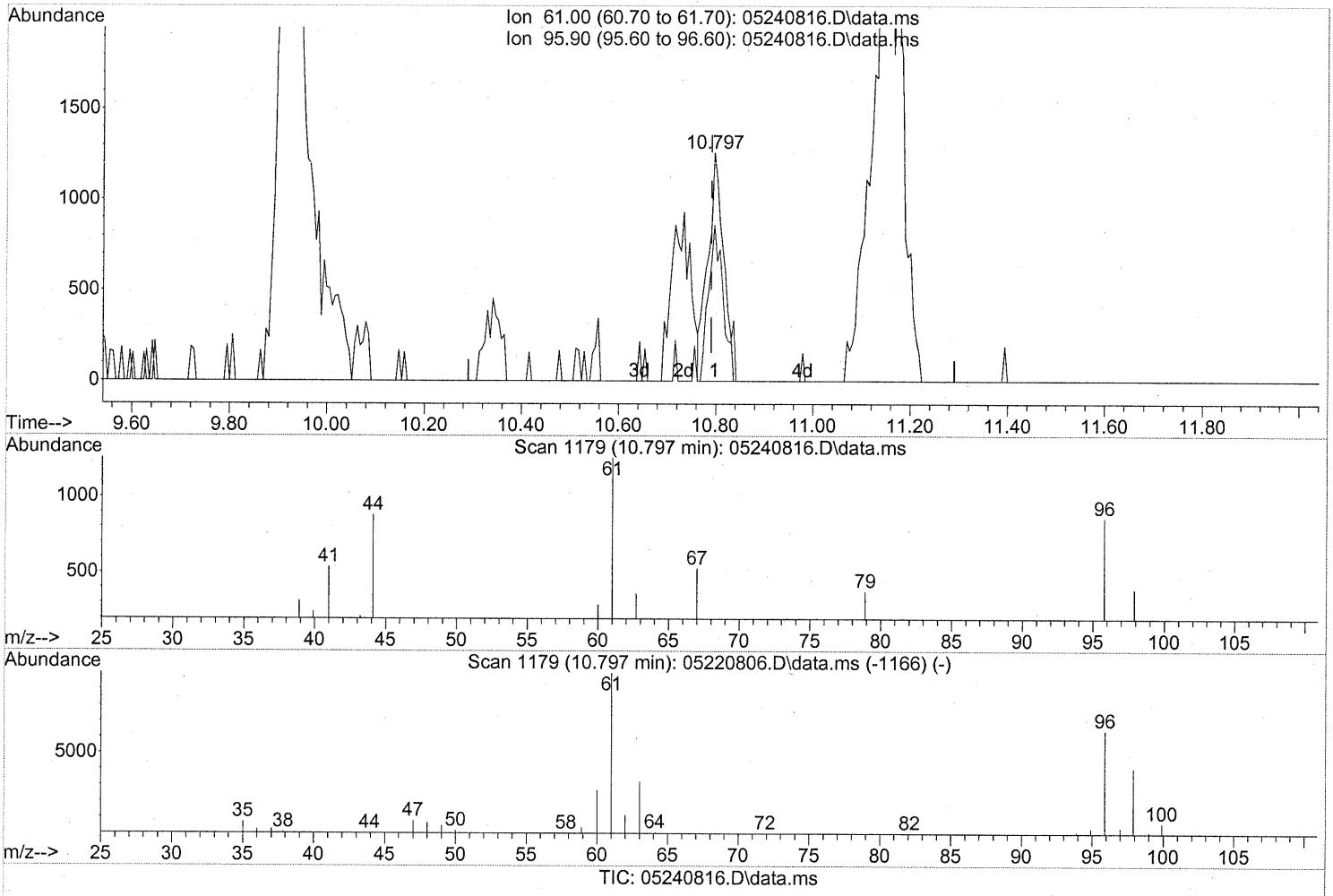
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.08
0.00	0.00	0.00
0.00	0.00	0.00

404

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(23) trans-1,2-Dichloroethene (T)

10.797min (+0.006) 0.05ng

response 2802

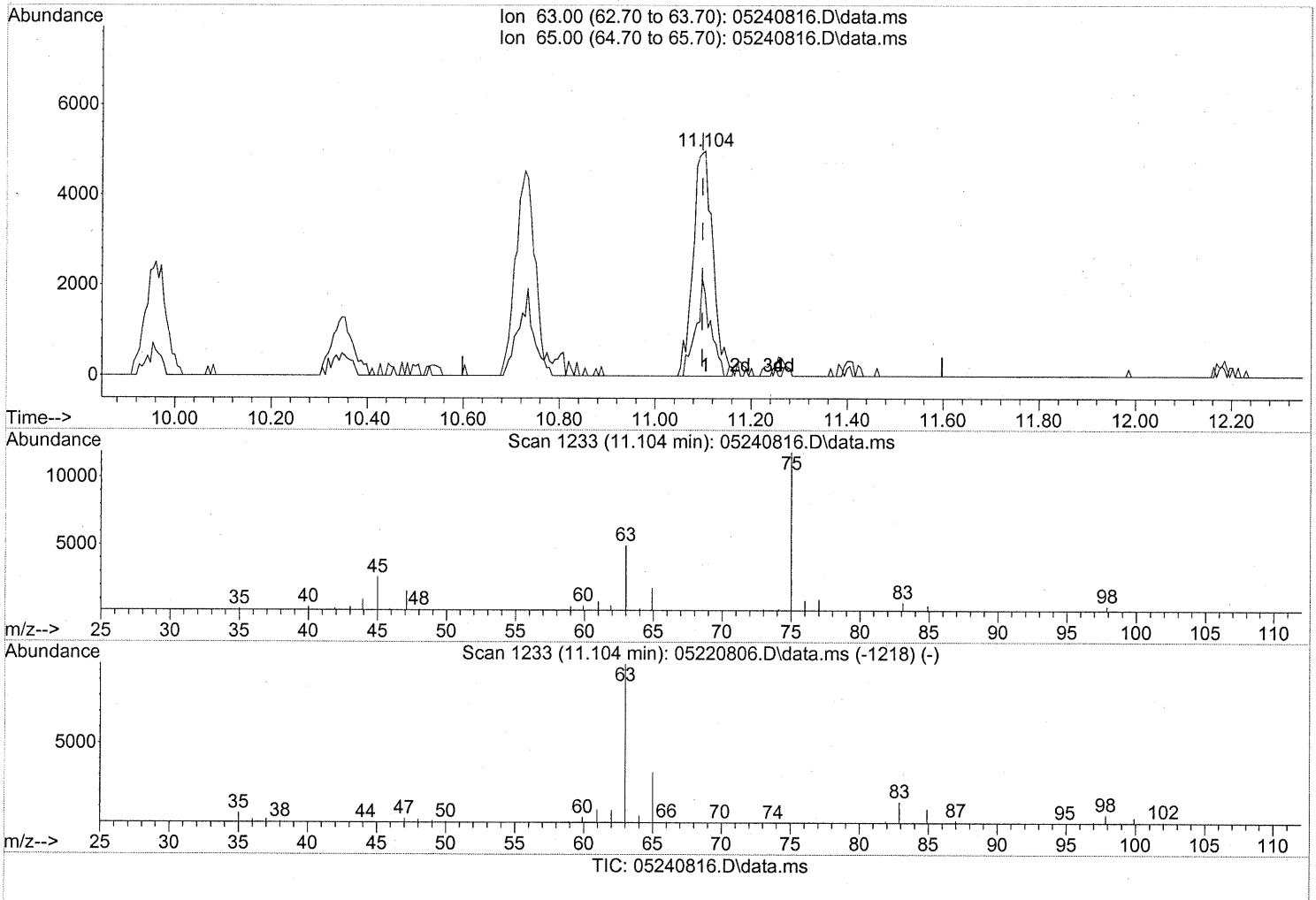
Ion	Exp%	Act%
61.00	100	100
95.90	54.20	66.77
0.00	0.00	0.00
0.00	0.00	0.00

405

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.23ng

response 14319

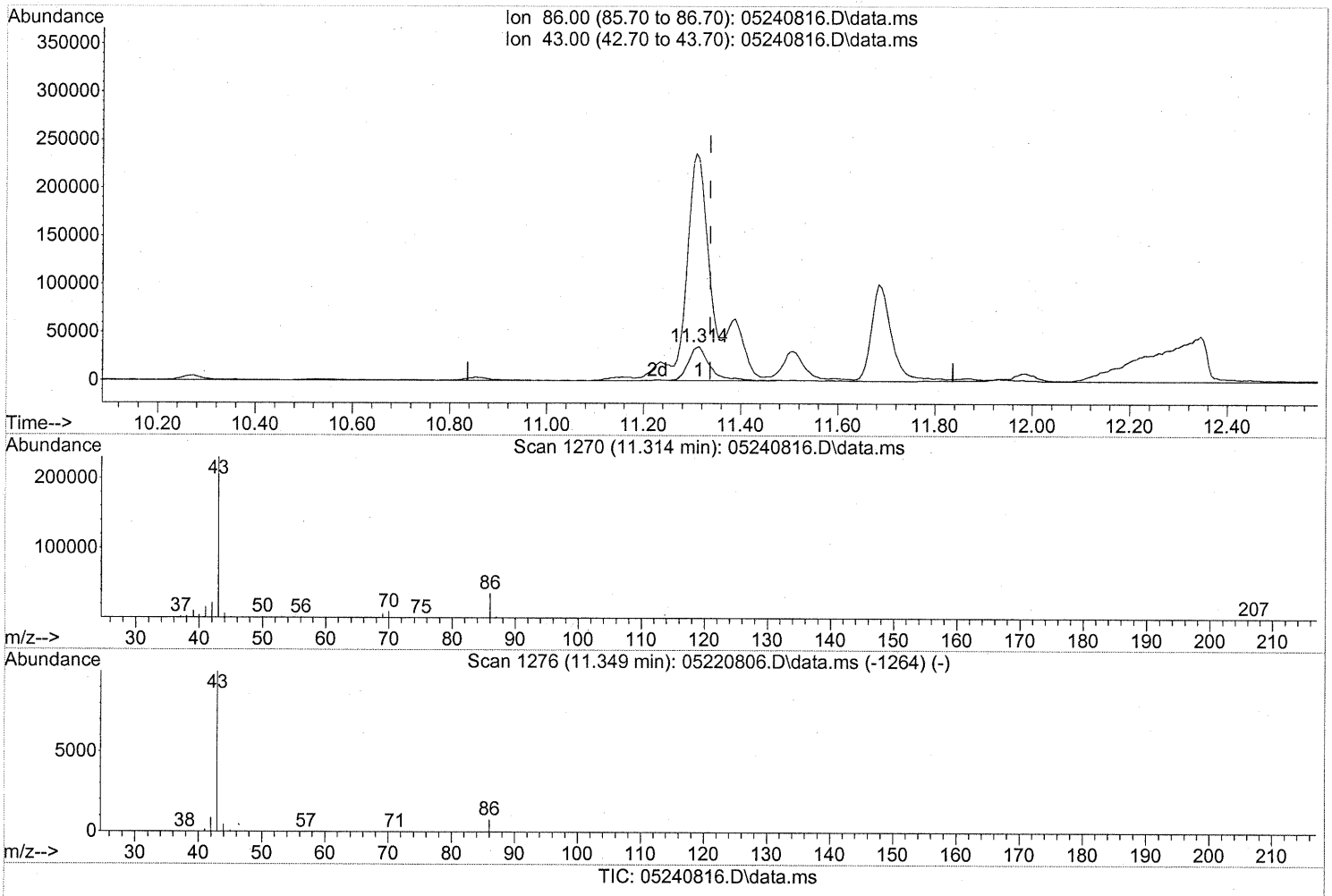
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.63
0.00	0.00	0.00
0.00	0.00	0.00

406

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 18.41ng

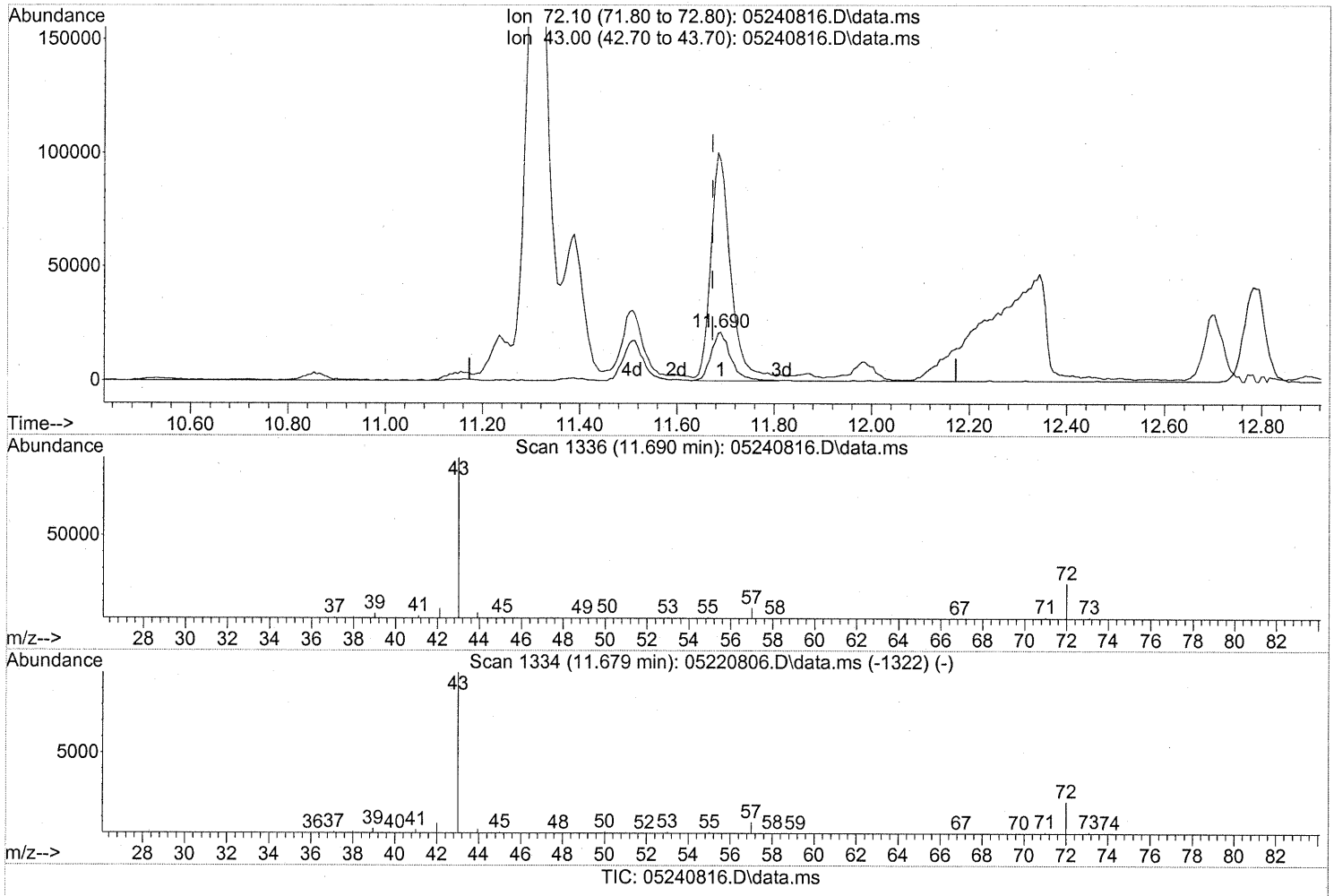
response 107296

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	675.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(27) 2-Butanone (T)

11.690min (+0.017) 2.56ng

response 58958

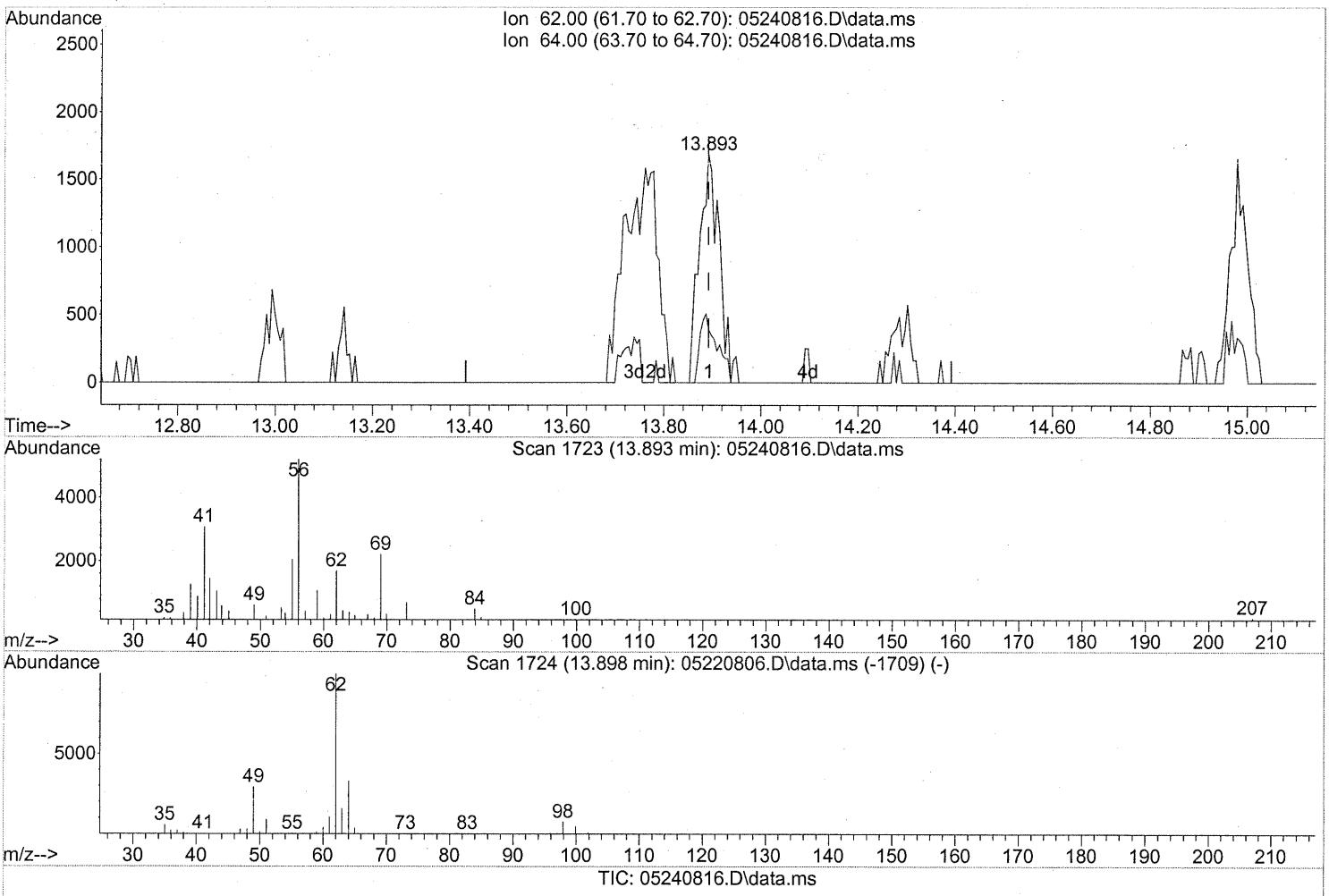
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	473.16#
0.00	0.00	0.00
0.00	0.00	0.00

408

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(36) 1,2-Dichloroethane (T)

13.893min (-0.000) 0.09ng

response 4809

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	25.62
0.00	0.00	0.00
0.00	0.00	0.00

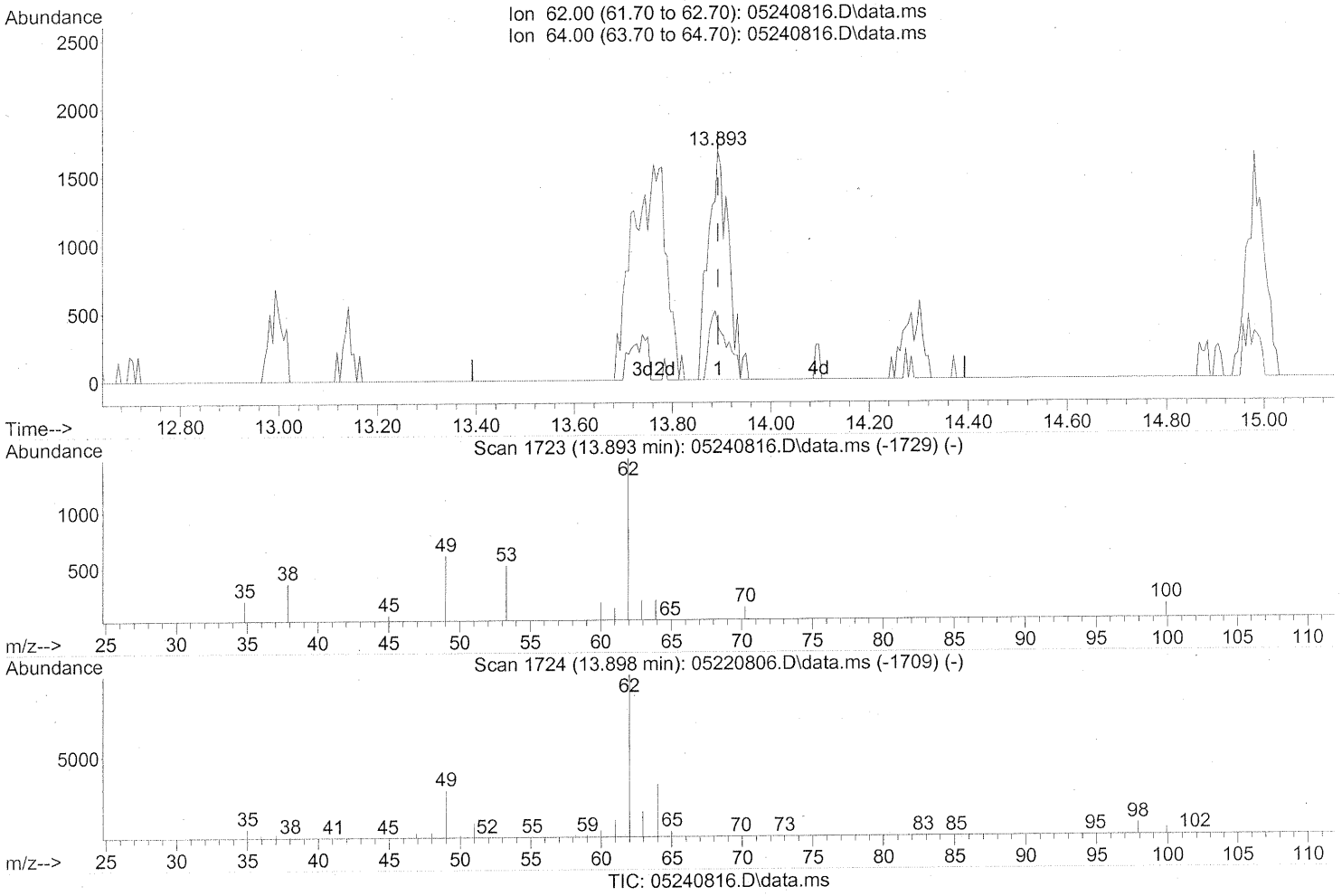
befor

409

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801422-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:44:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.893min (-0.000) 0.09ng

response 4809

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	25.62
0.00	0.00	0.00
0.00	0.00	0.00

after substr

MDH 5/29/08

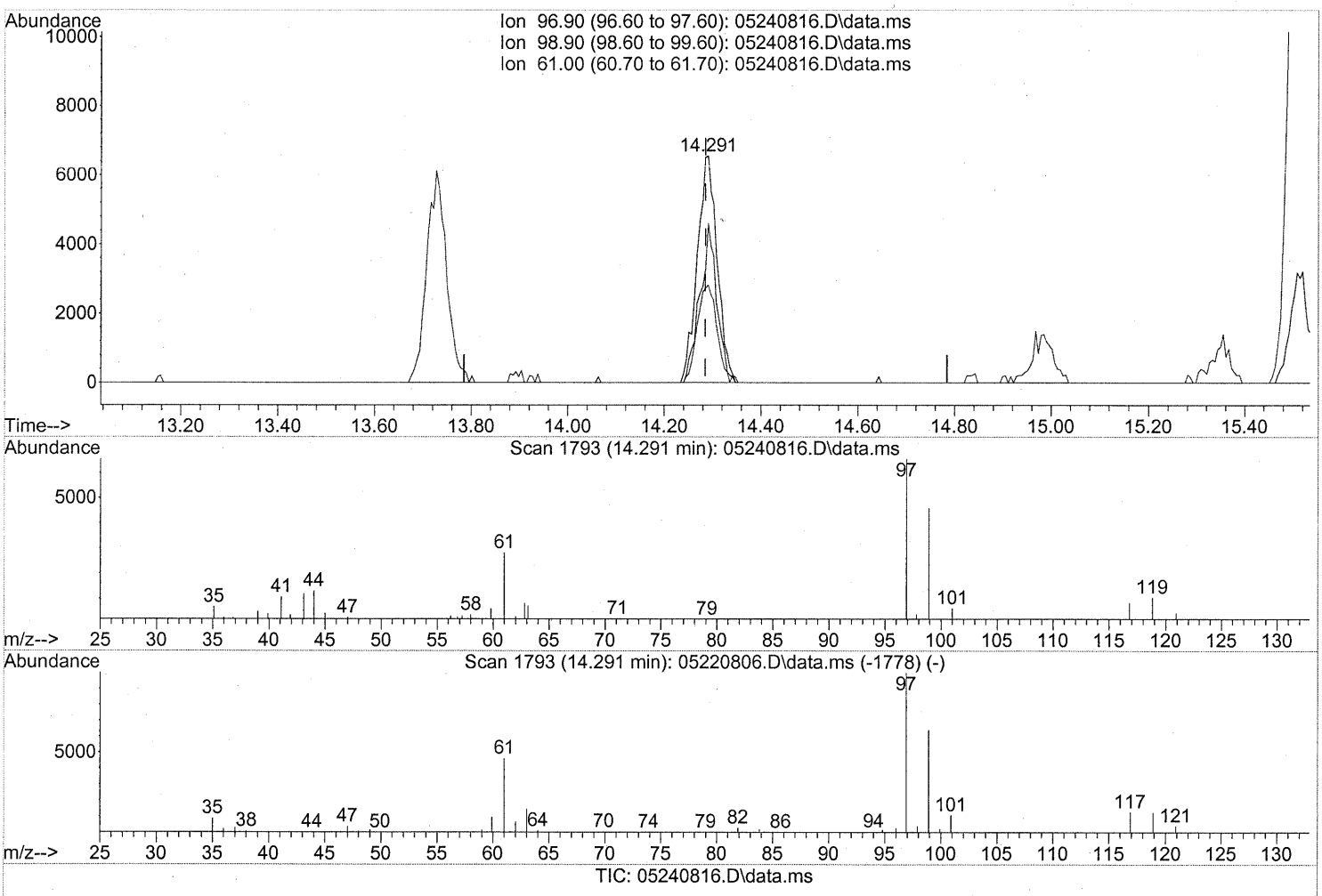
WH 5/30/08

410

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.34ng

response 18775

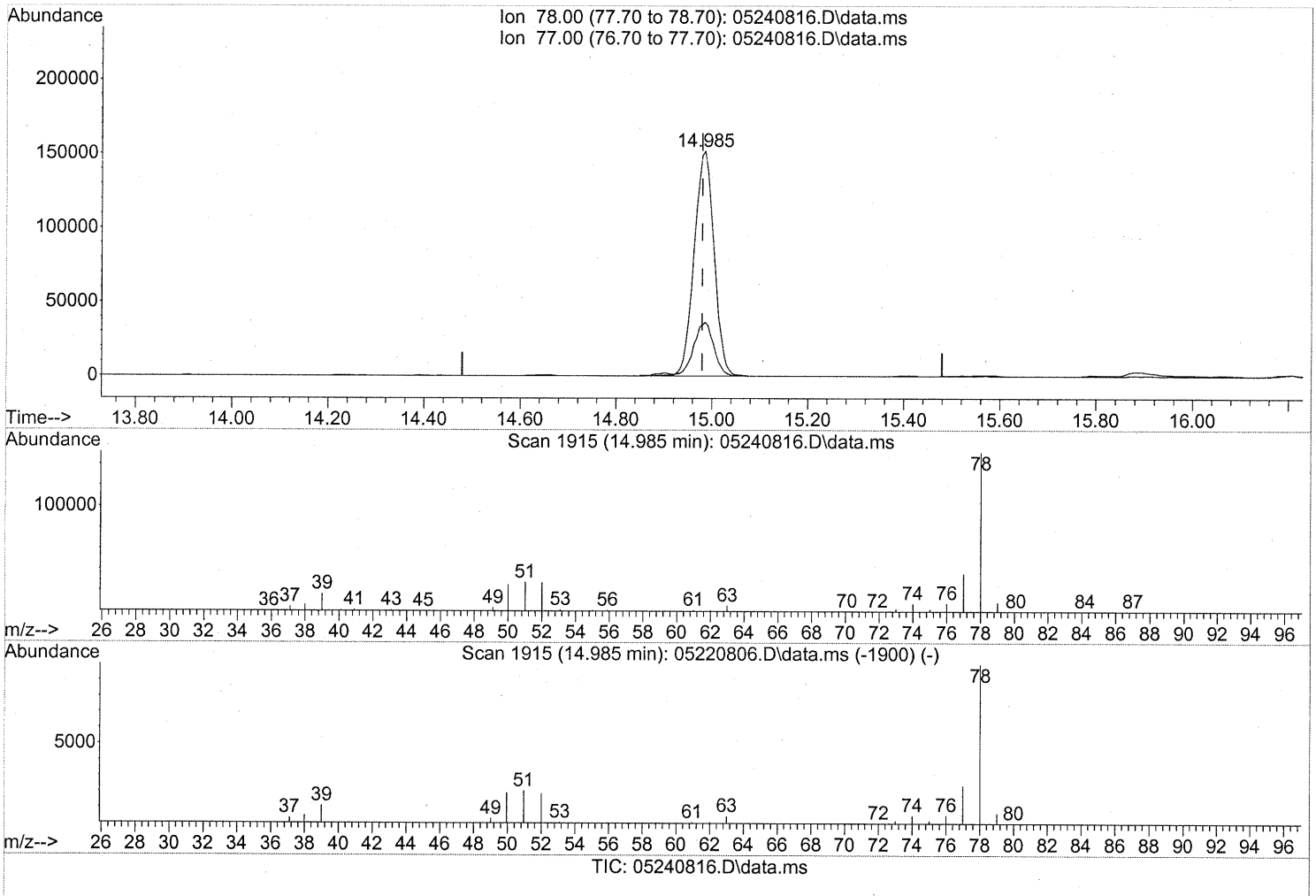
Ion	Exp%	Act%
96.90	100	100
98.90	63.40	60.32
61.00	50.50	42.32
0.00	0.00	0.00

411

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(41) Benzene (T)

14.985min (+0.006) 3.39ng

response 435488

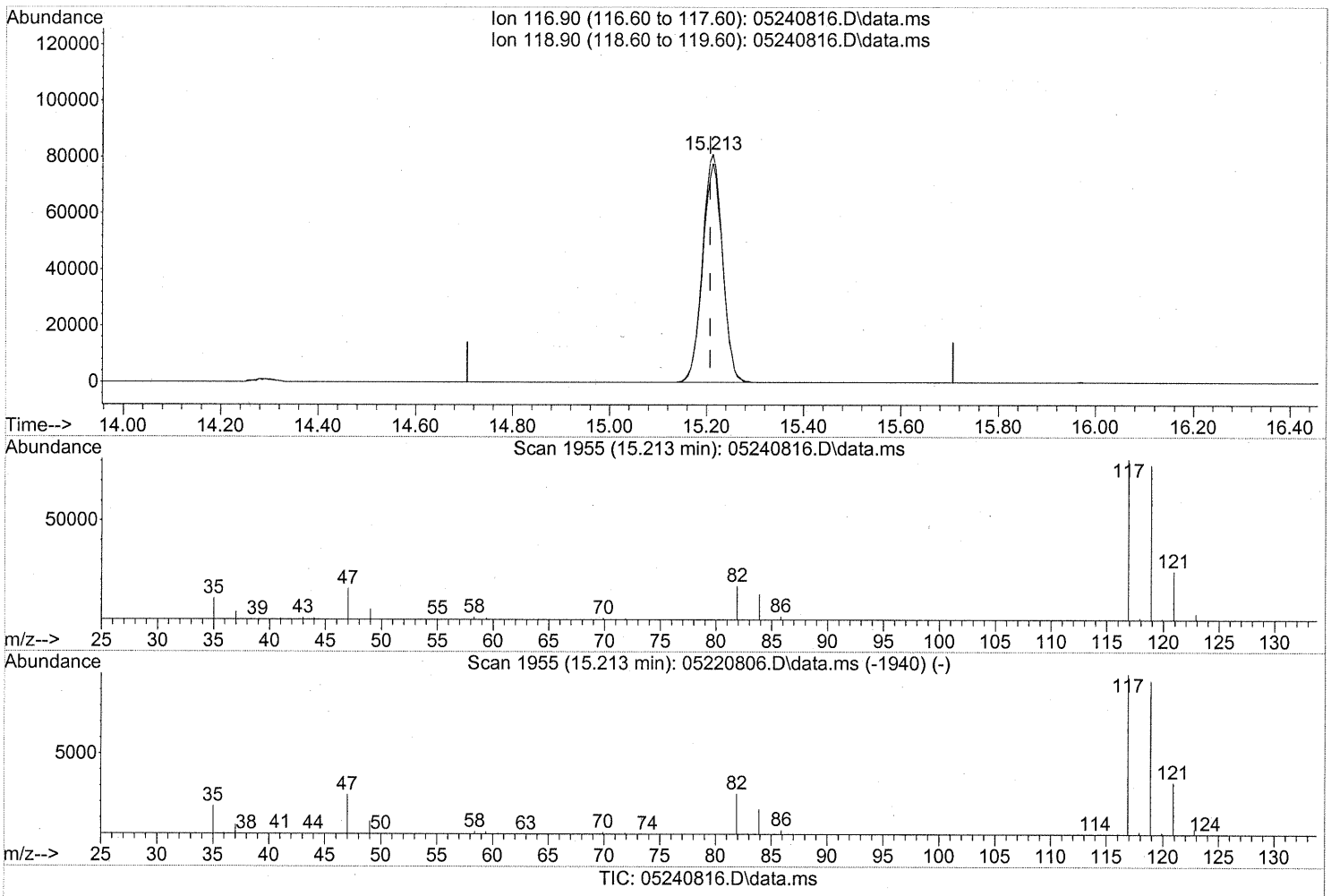
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.91
0.00	0.00	0.00
0.00	0.00	0.00

412

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 4.72ng

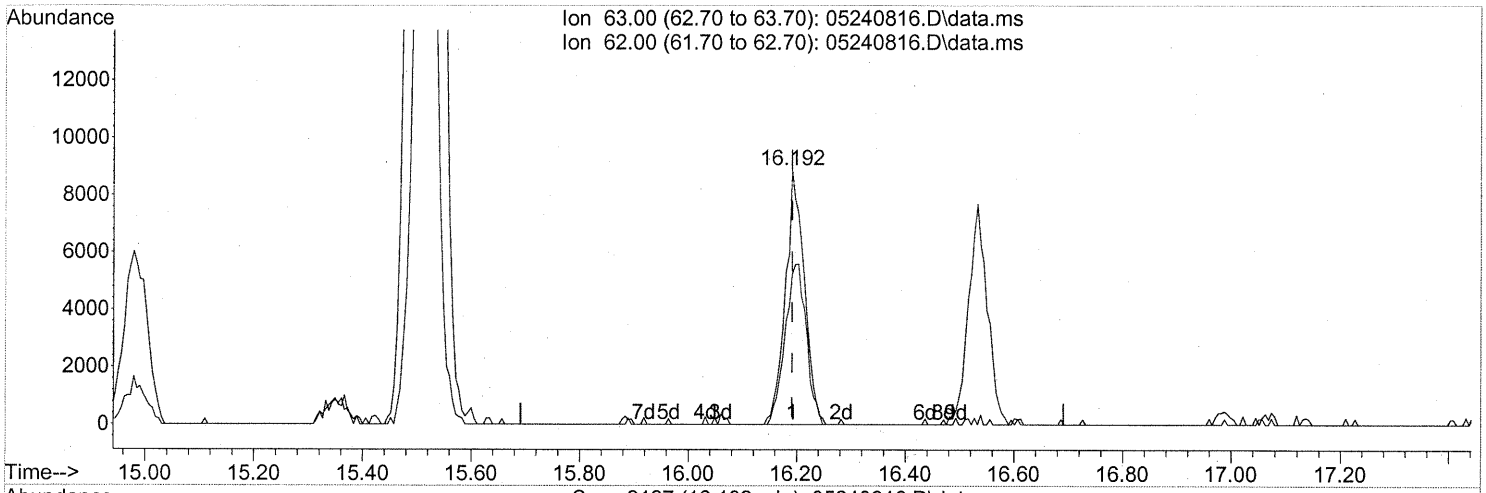
response 233284

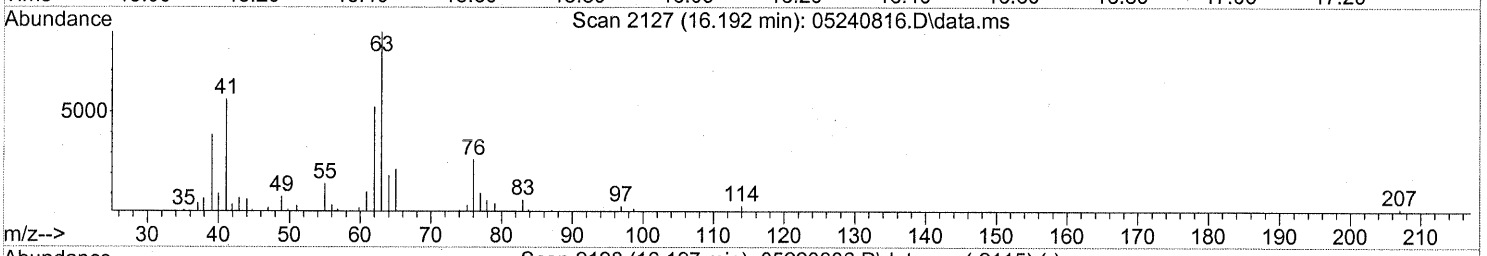
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.22
0.00	0.00	0.00
0.00	0.00	0.00

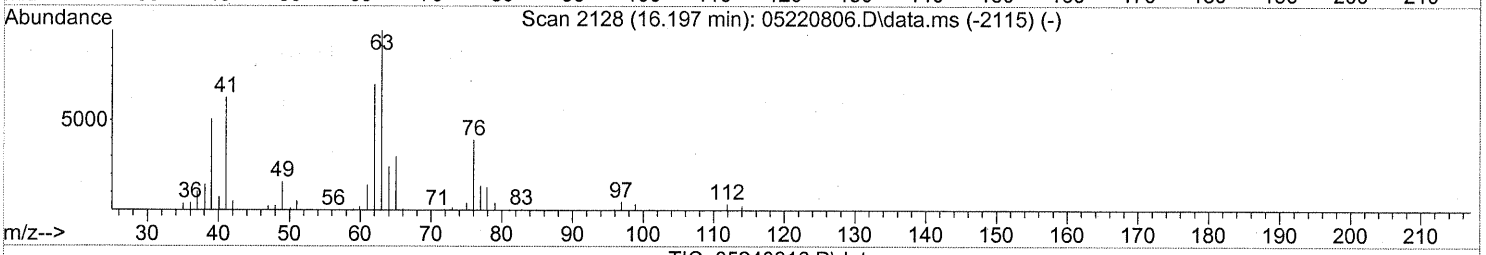
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(45) 1,2-Dichloropropane (T)

16.192min (-0.000) 0.63ng

response 21543

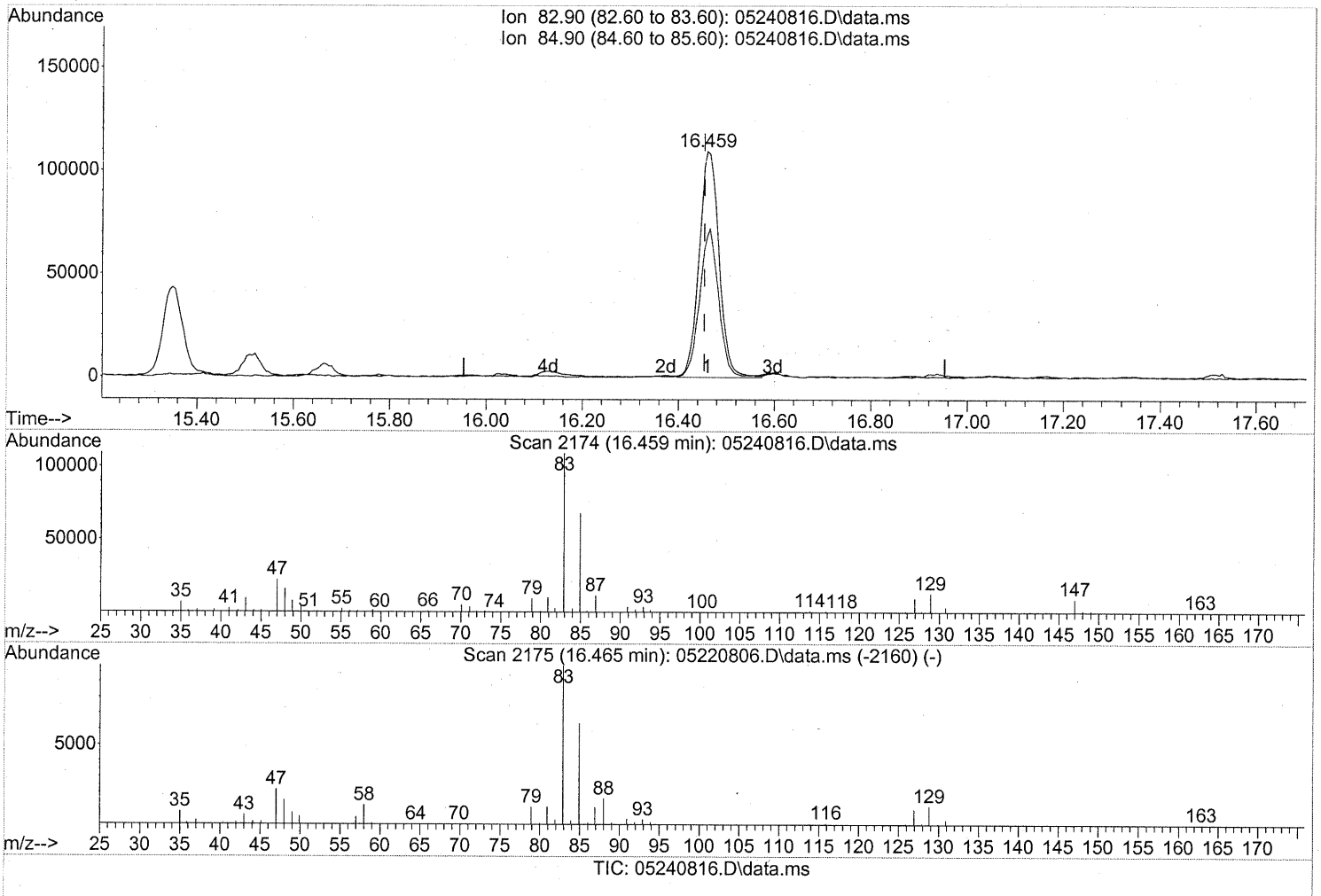
Ion	Exp%	Act%
63.00	100	100
62.00	71.30	70.71
0.00	0.00	0.00
0.00	0.00	0.00

414

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 7.29ng

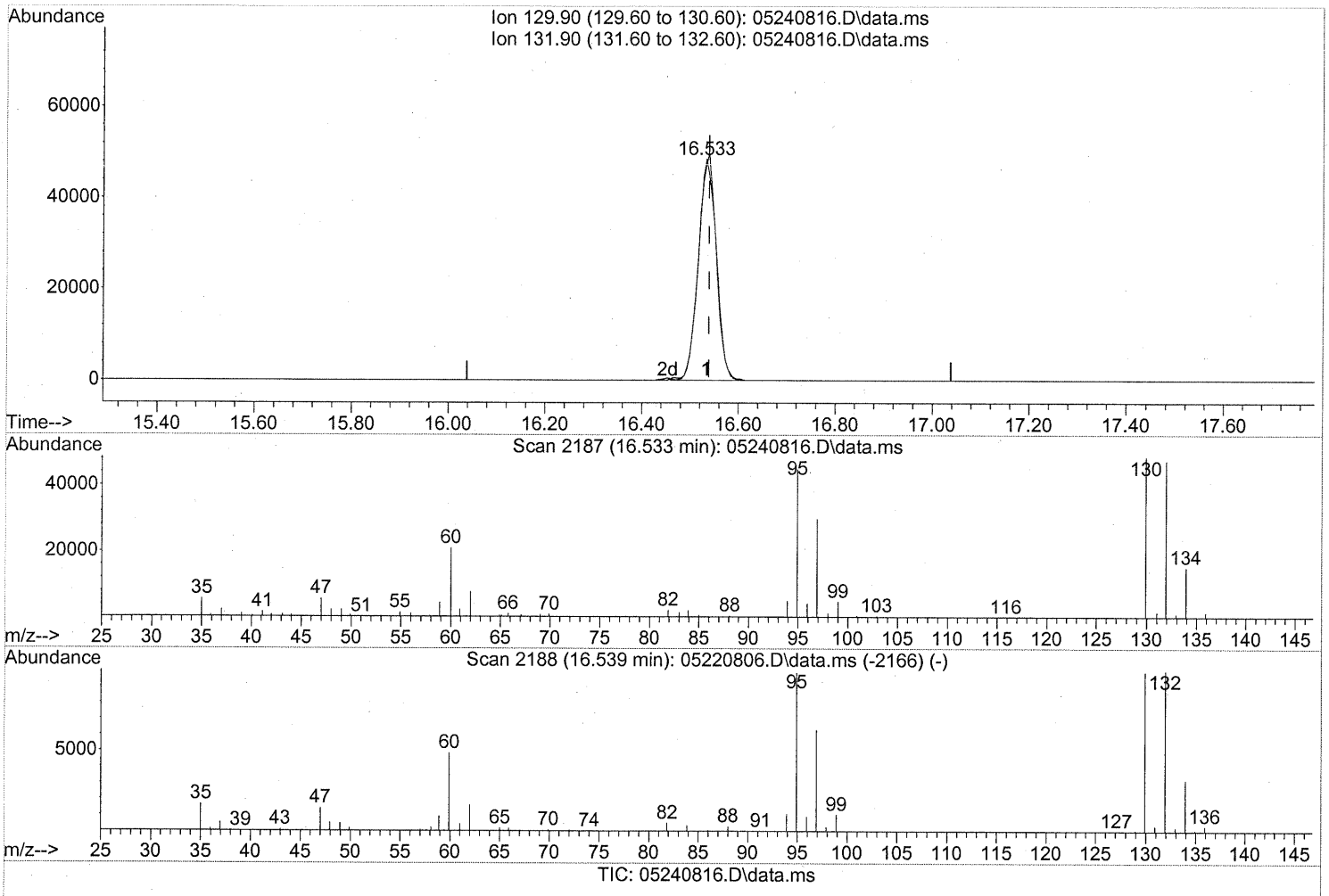
response 316049

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	62.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 3.17ng

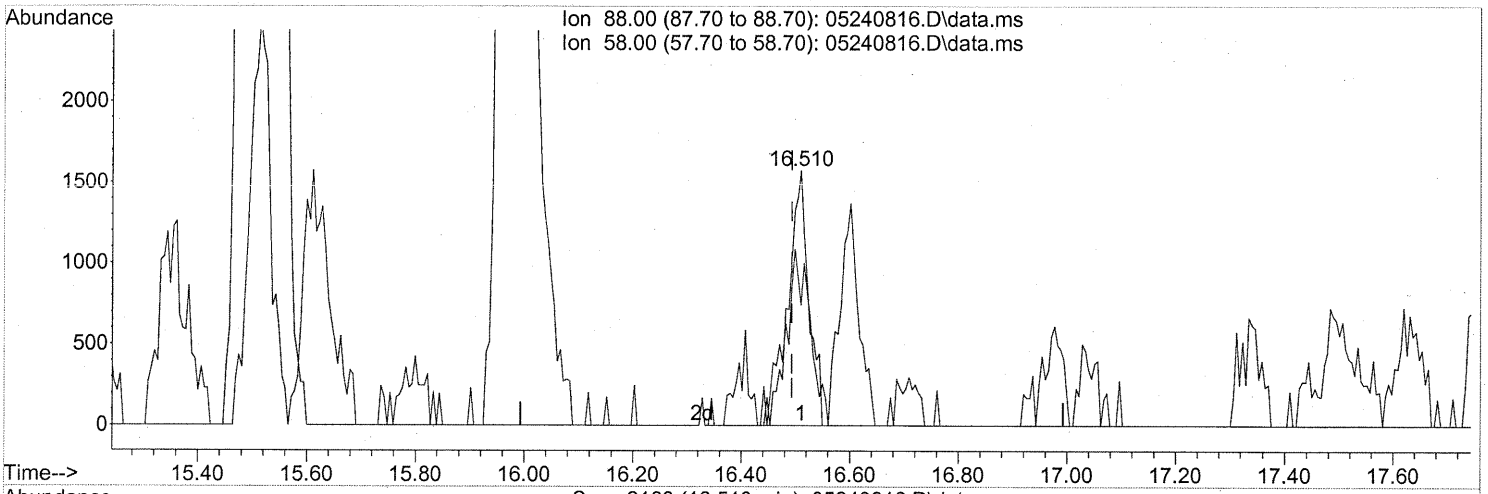
response 124925

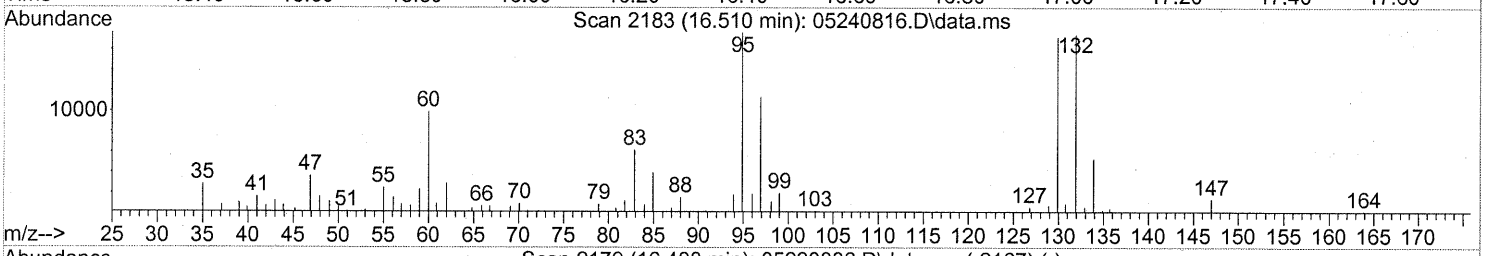
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	102.27
0.00	0.00	0.00
0.00	0.00	0.00

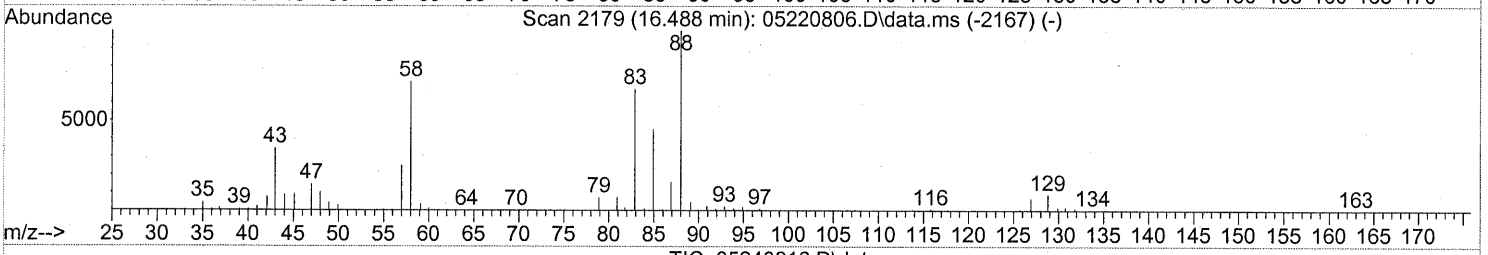
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(48) 1,4-Dioxane (T)

16.510min (+0.017) 0.17ng

response 4091

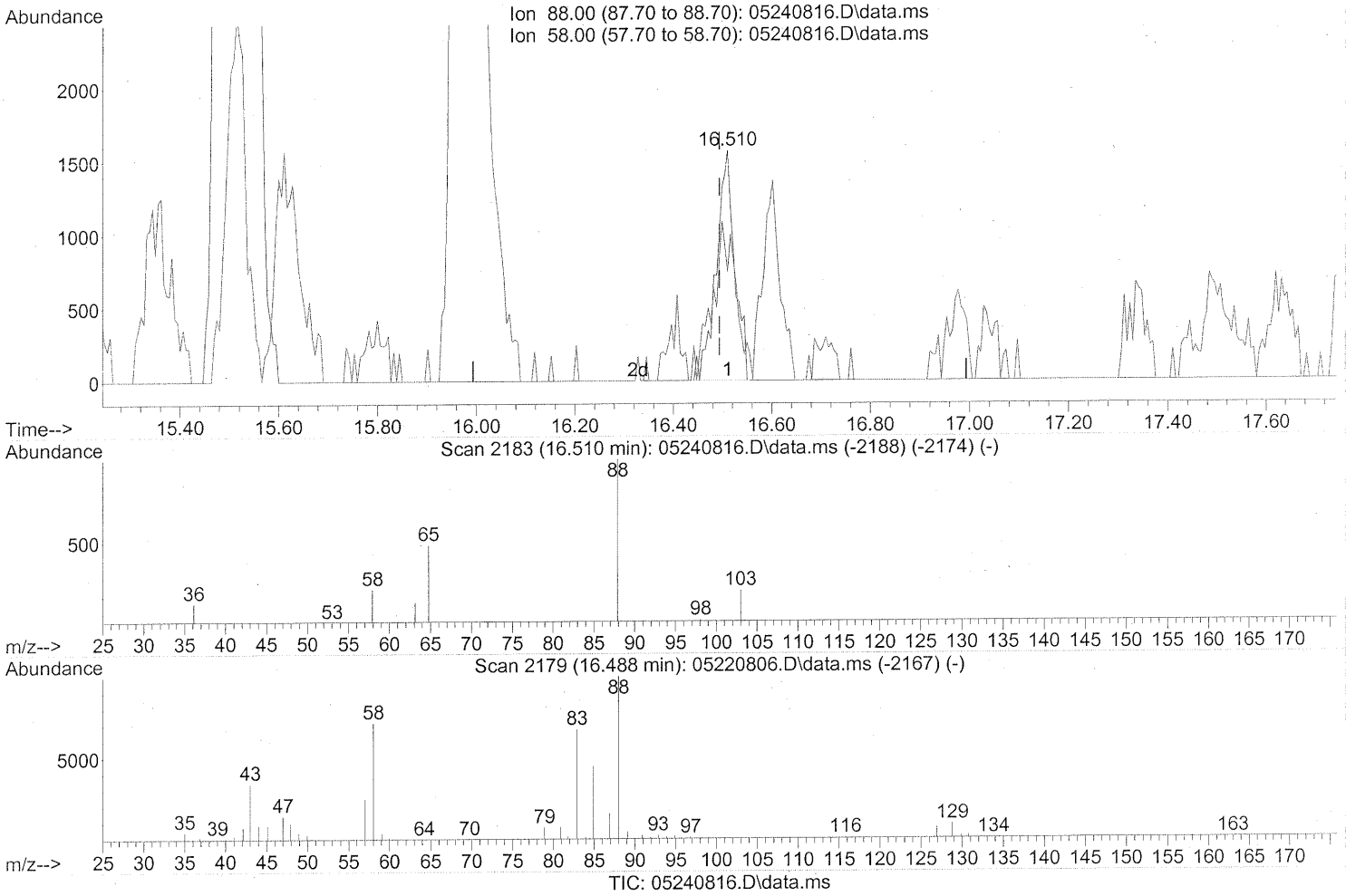
before subtr.

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	88.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801422-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:44:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(48) 1,4-Dioxane (T)

16.510min (+0.017) 0.17ng

response 4091

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	88.41
0.00	0.00	0.00
0.00	0.00	0.00

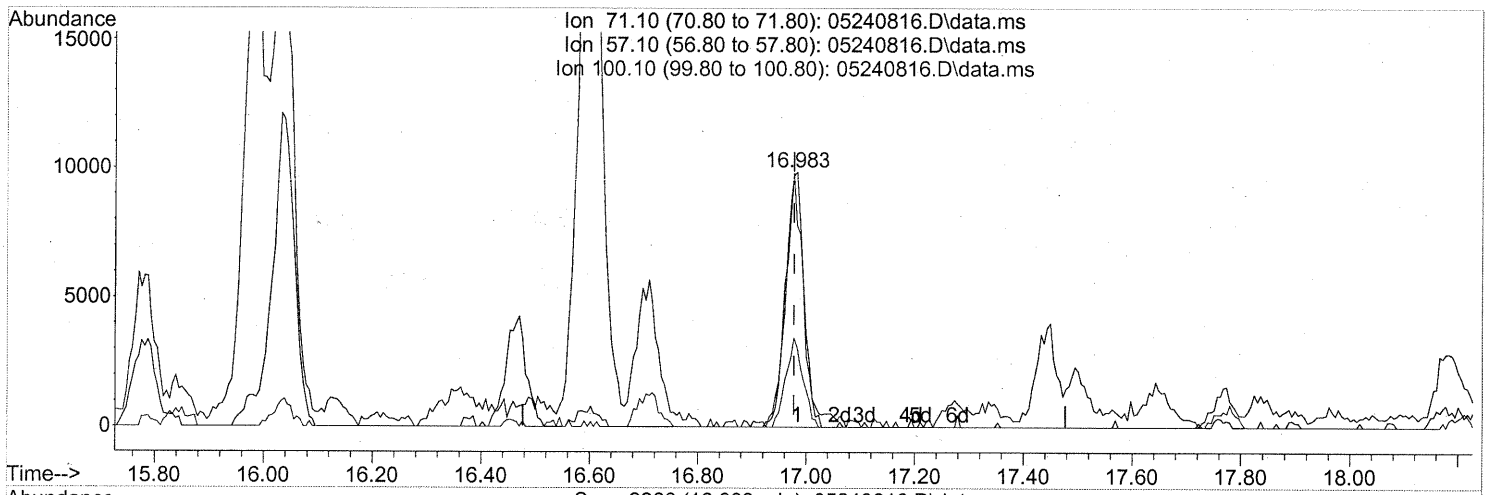
after substr.

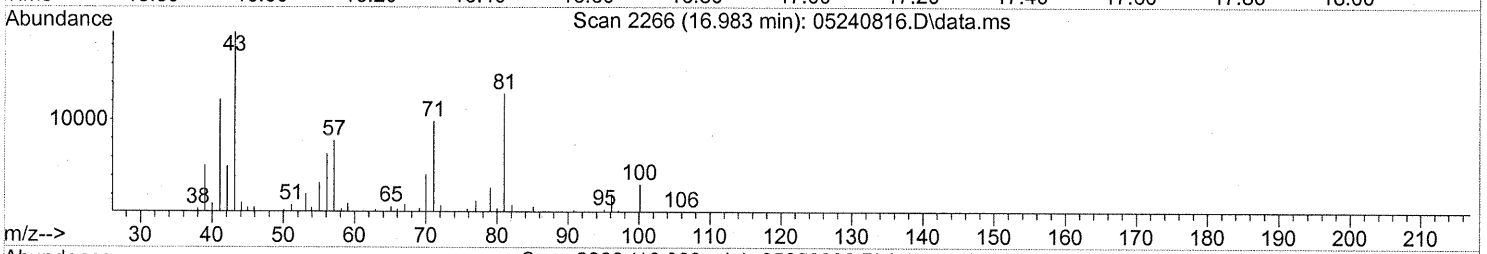
WA 5/30/08

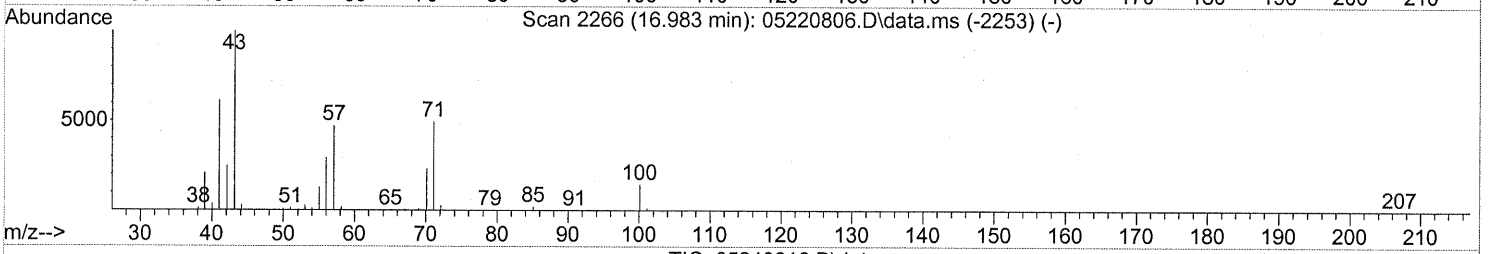
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(51) n-Heptane (T)

16.983min (+0.006) 0.67ng

response 22999

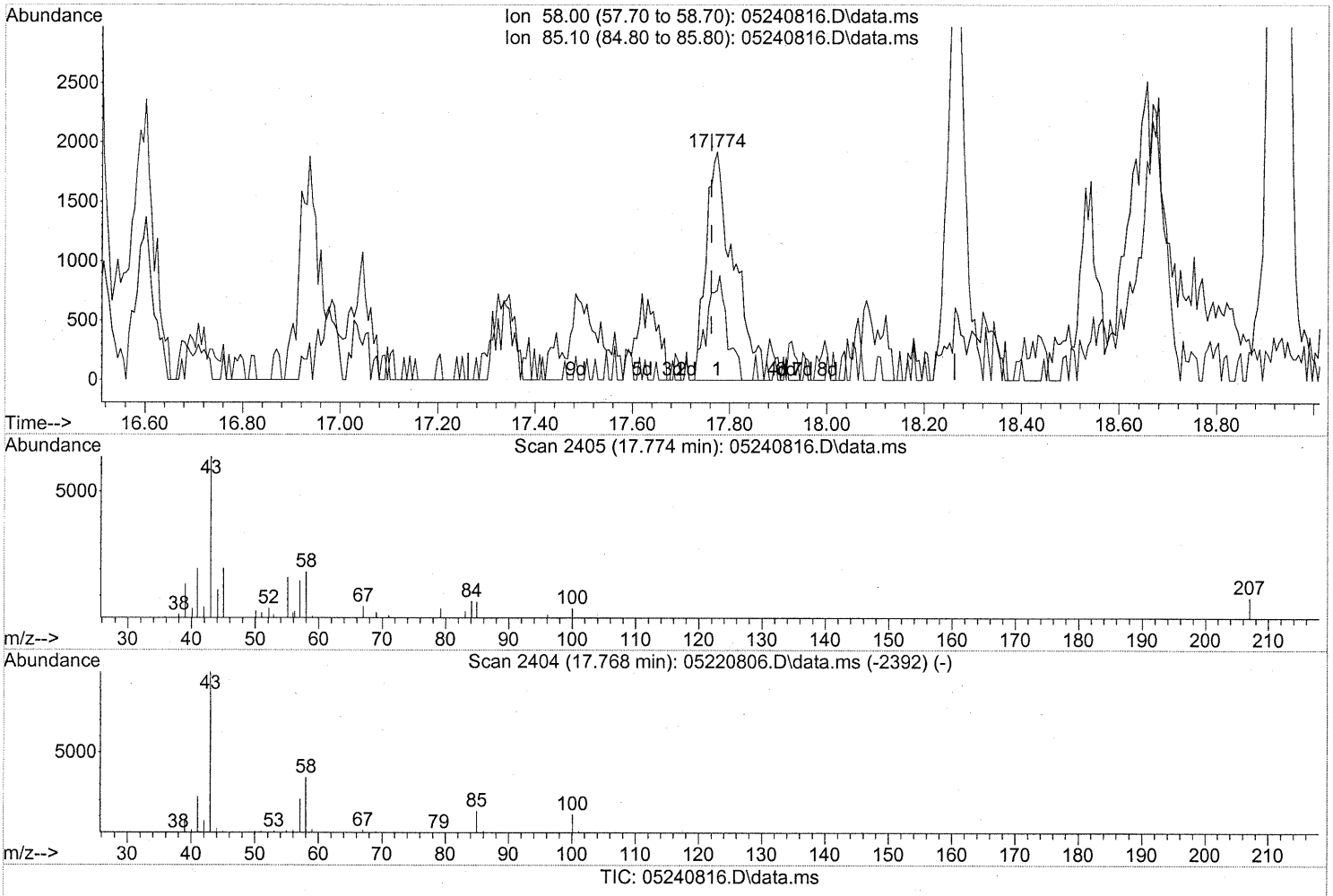
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	100.96#
100.10	30.10	33.23
0.00	0.00	0.00

419

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

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

17.774min (+0.011) 0.22ng

response 7589

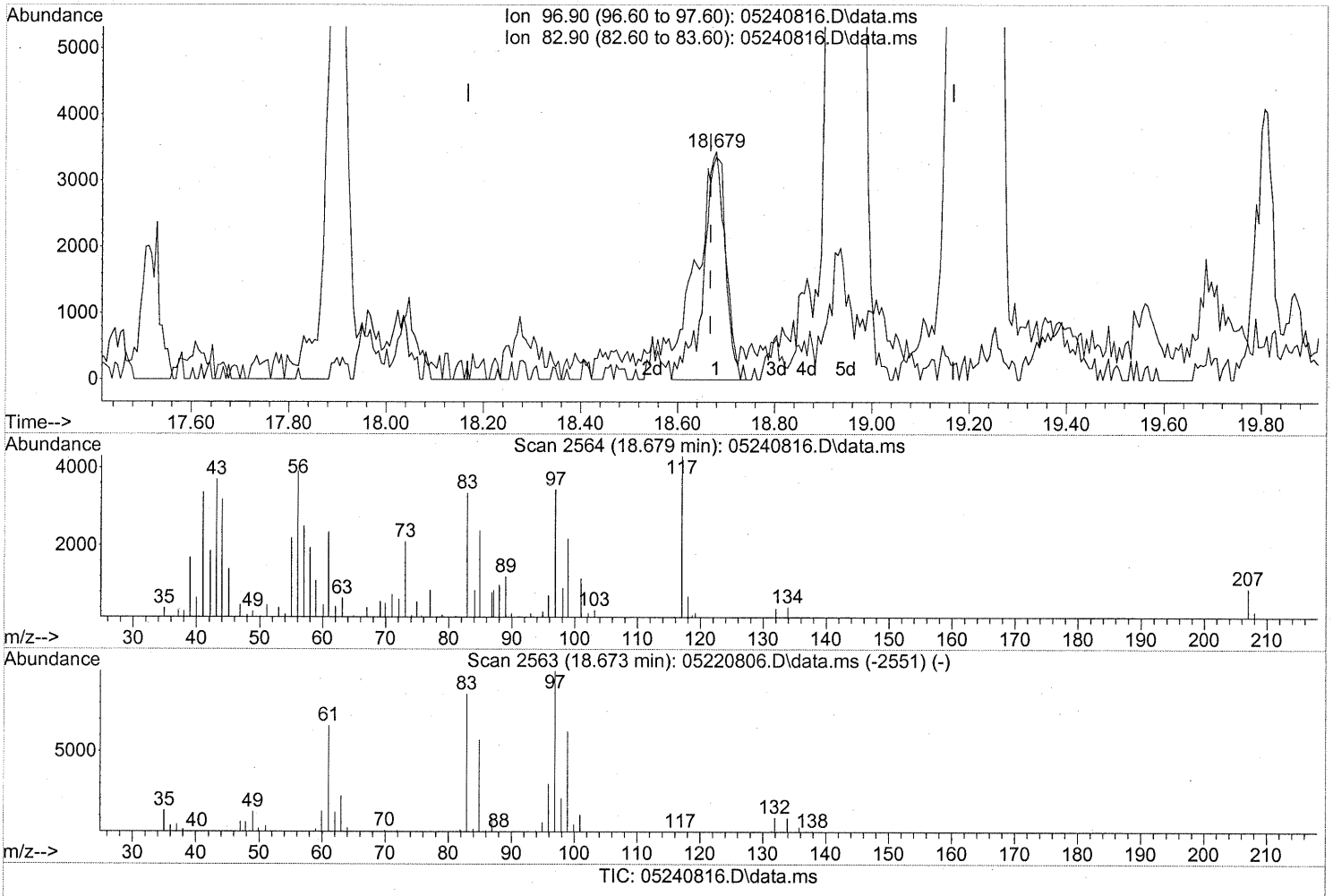
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	33.44
0.00	0.00	0.00
0.00	0.00	0.00

420

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

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

18.679min (+0.011) 0.34ng

response 10647

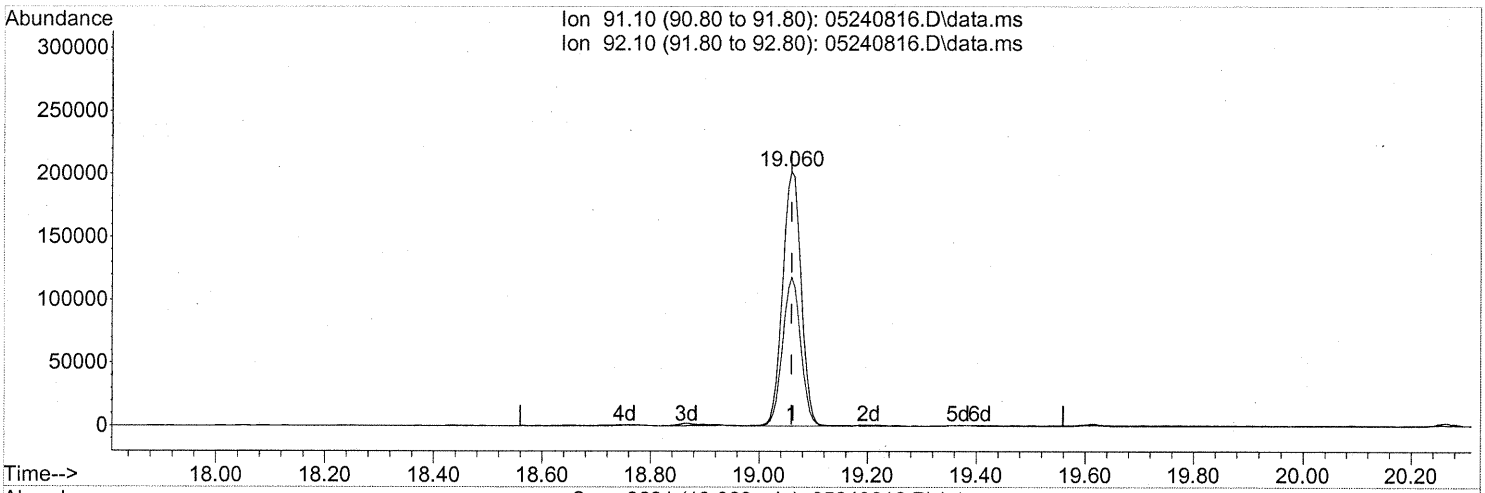
Ion	Exp%	Act%
96.90	100	100
82.90	84.80	85.34
0.00	0.00	0.00
0.00	0.00	0.00

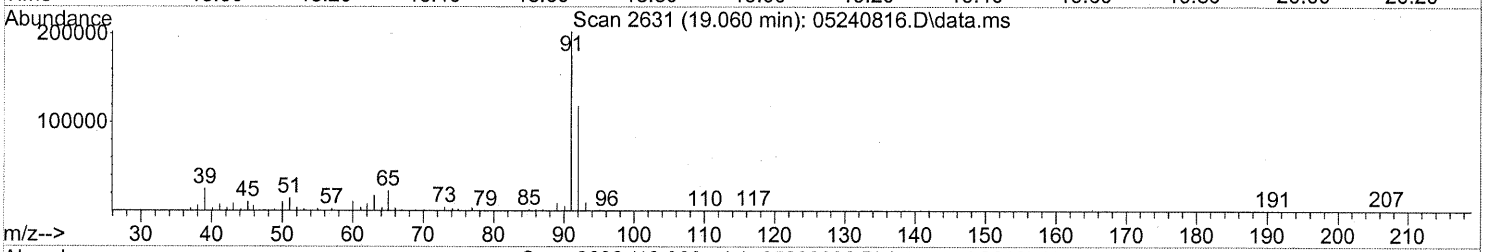
421

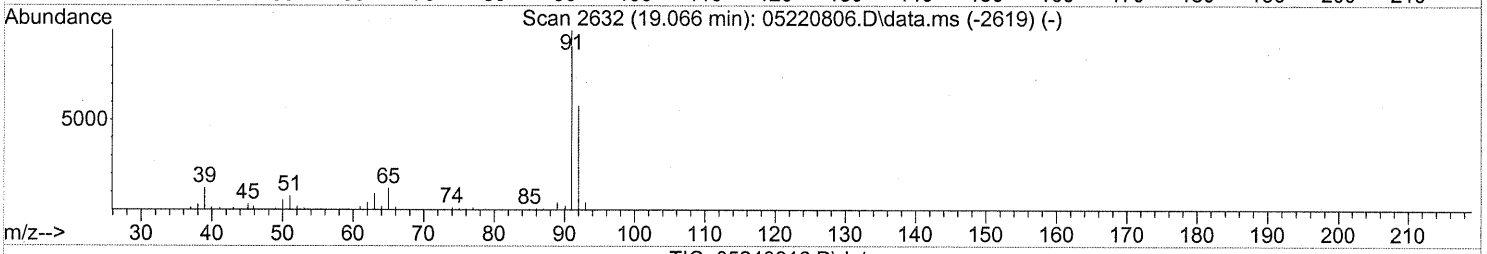
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 3.37ng

response 480331

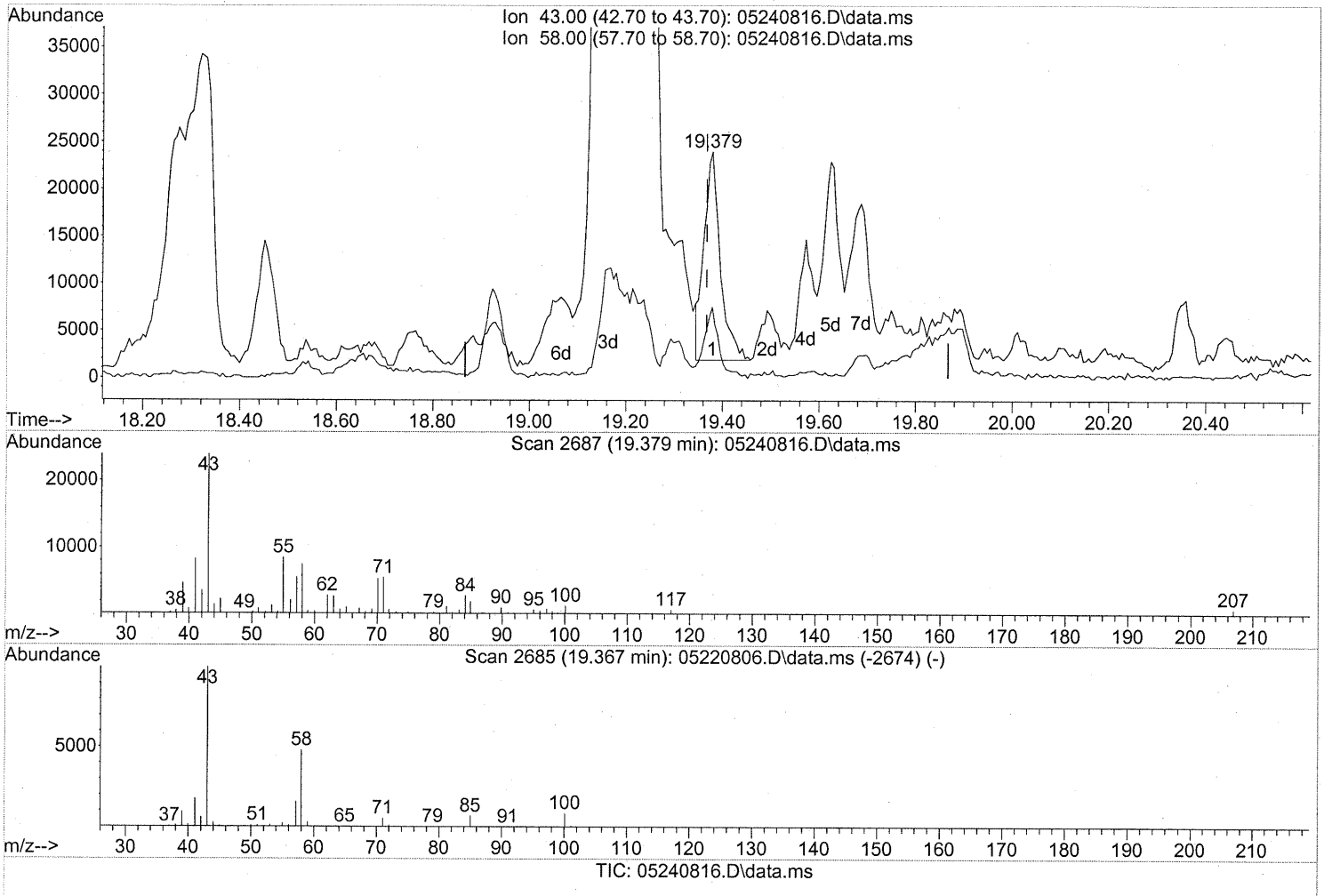
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.09
0.00	0.00	0.00
0.00	0.00	0.00

422

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(59) 2-Hexanone (T)

19.379min (+0.011) 0.53ng

response 51969

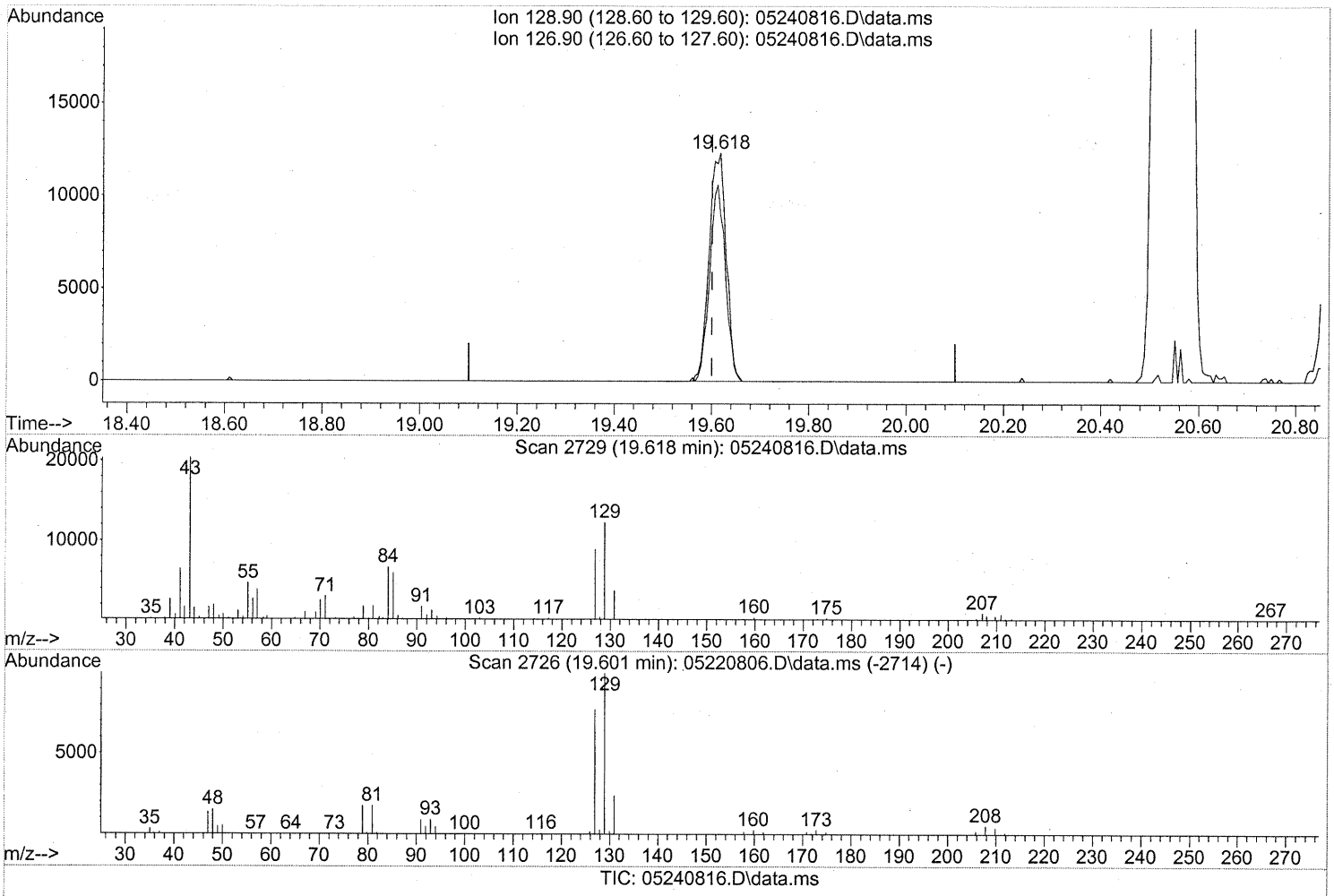
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	31.54#
0.00	0.00	0.00
0.00	0.00	0.00

423

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(60) Dibromochloromethane (T)

19.618min (+0.017) 0.78ng

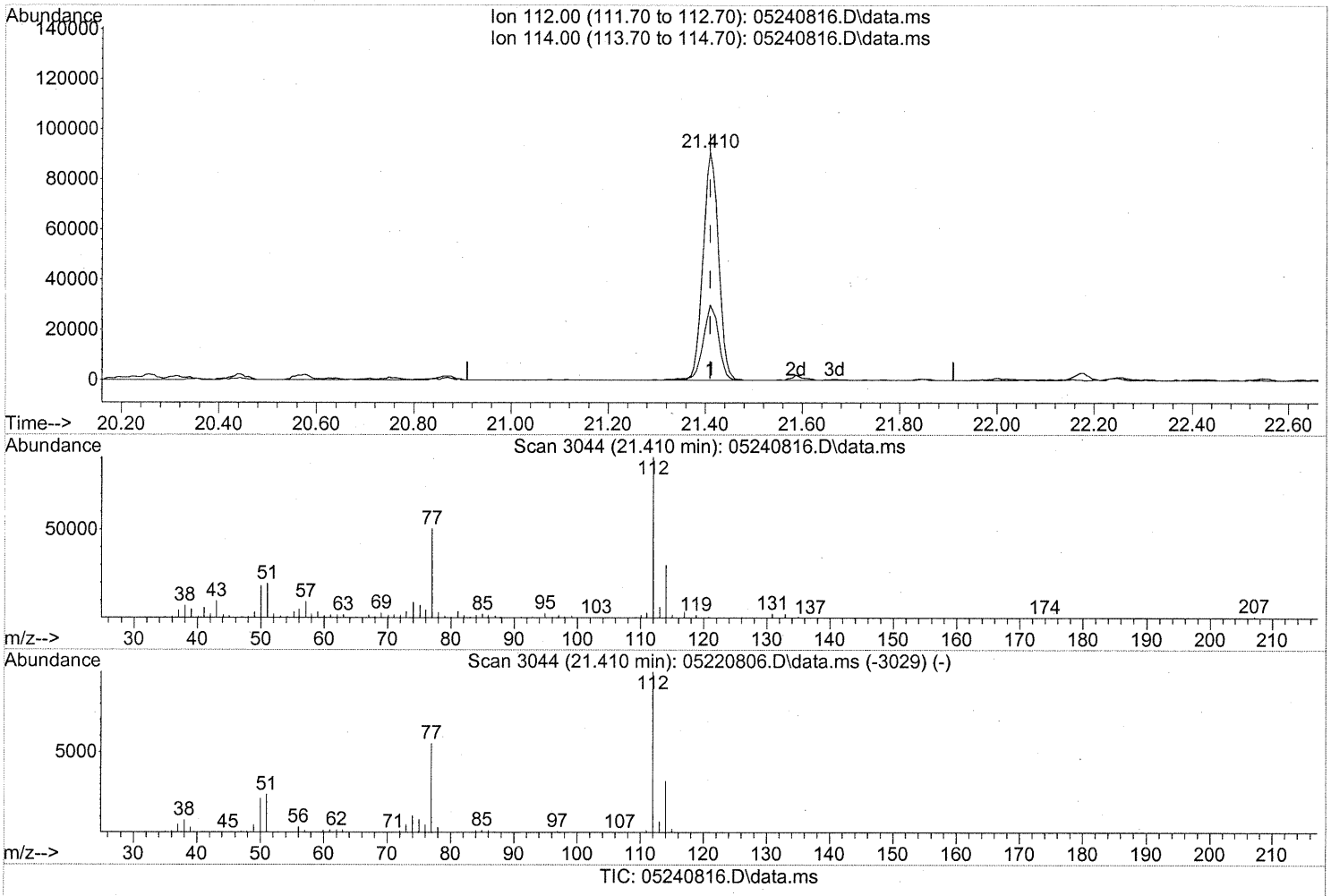
response 30219

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	79.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(65) Chlorobenzene (T)

21.410min (-0.000) 2.10ng

response 201292

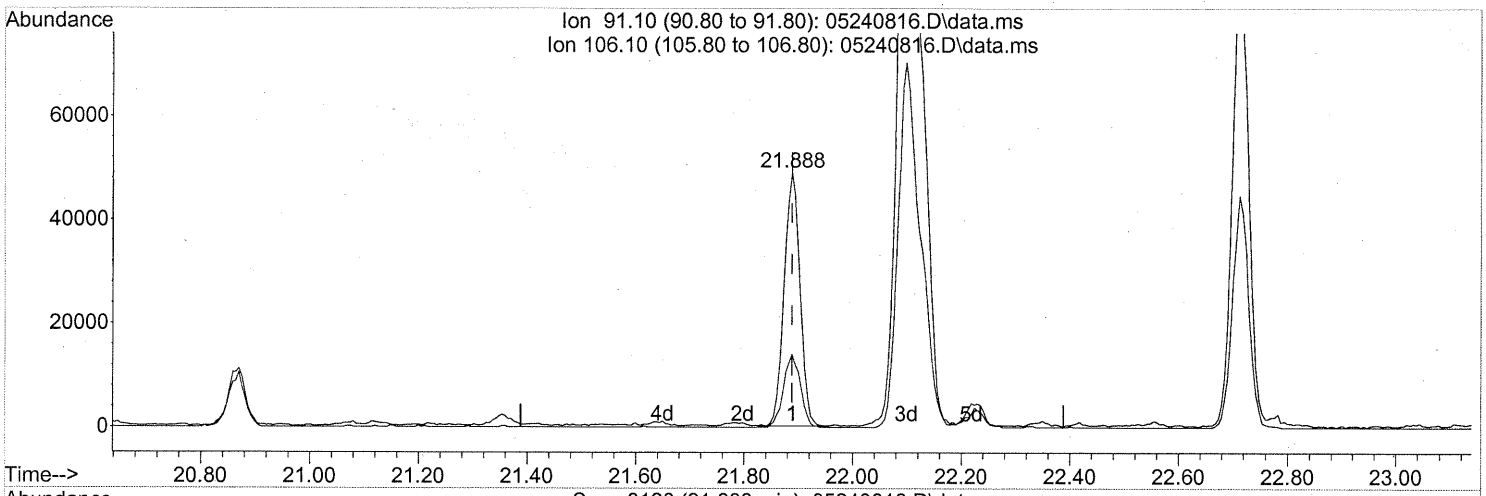
Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.24
0.00	0.00	0.00
0.00	0.00	0.00

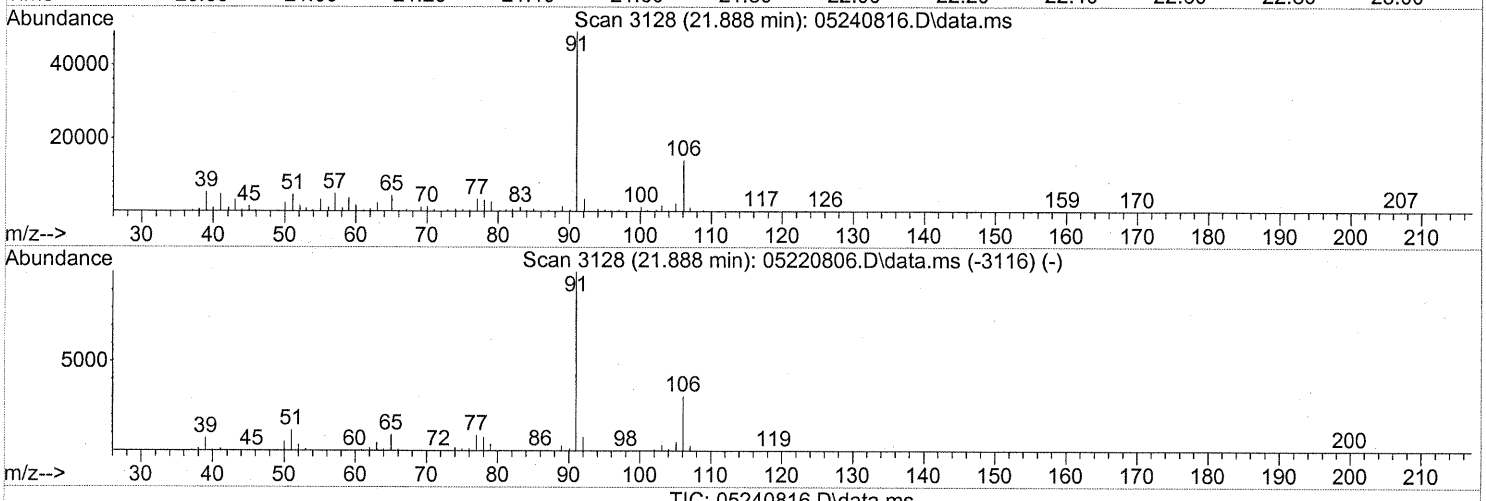
425

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration





TIC: 05240816.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.61ng

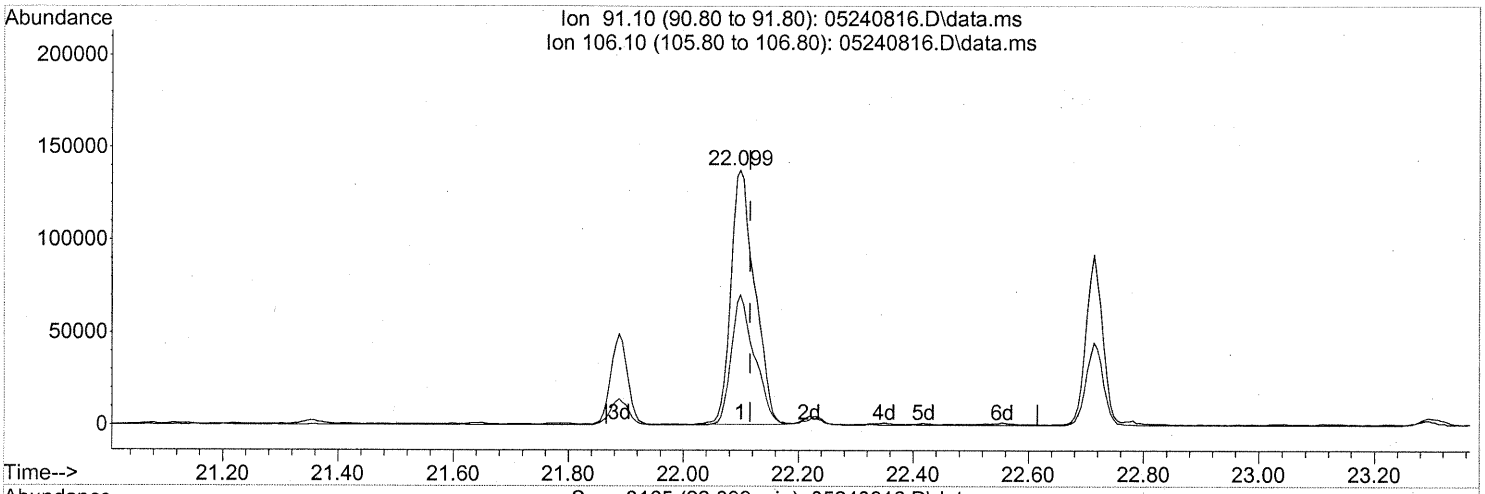
response 99184

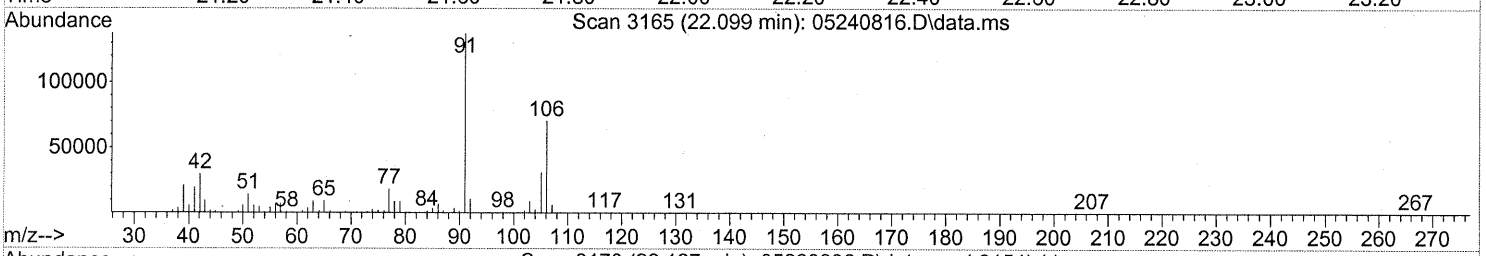
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.55
0.00	0.00	0.00
0.00	0.00	0.00

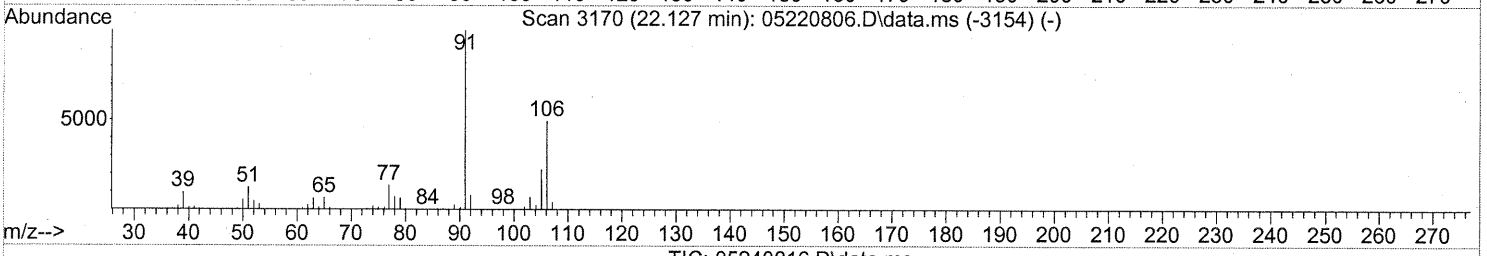
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

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

22.099min (-0.017) 3.62ng

response 396425

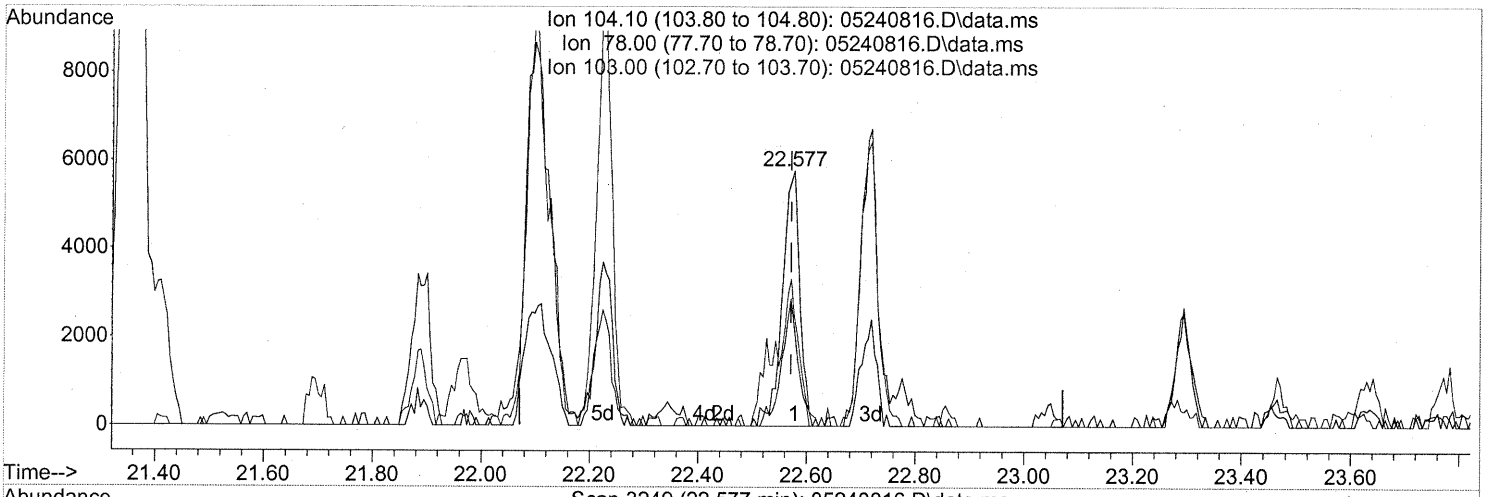
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	50.18
0.00	0.00	0.00
0.00	0.00	0.00

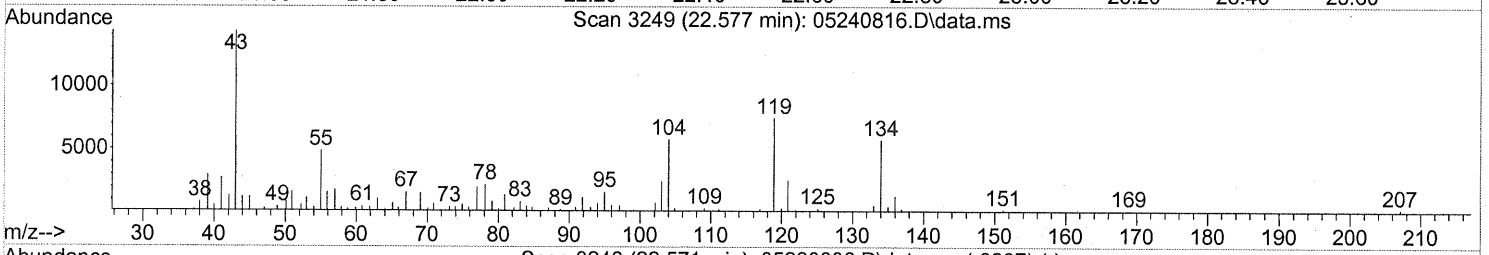
427

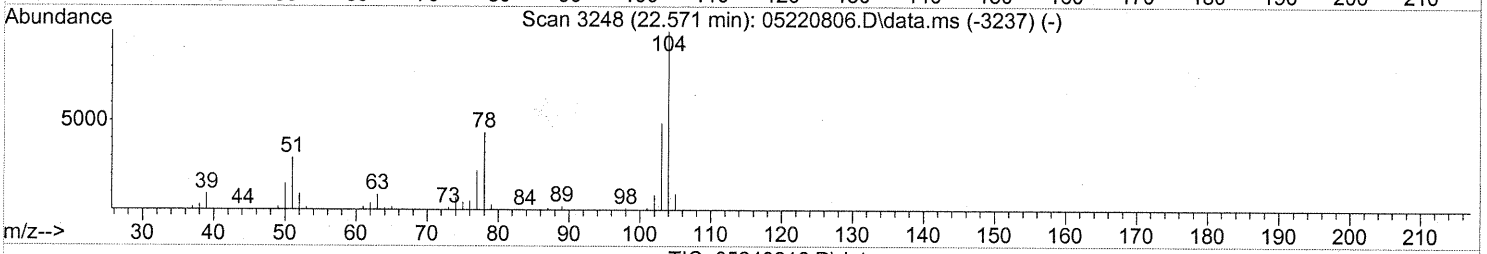
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(69) Styrene (T)

22.577min (+0.006) 0.13ng

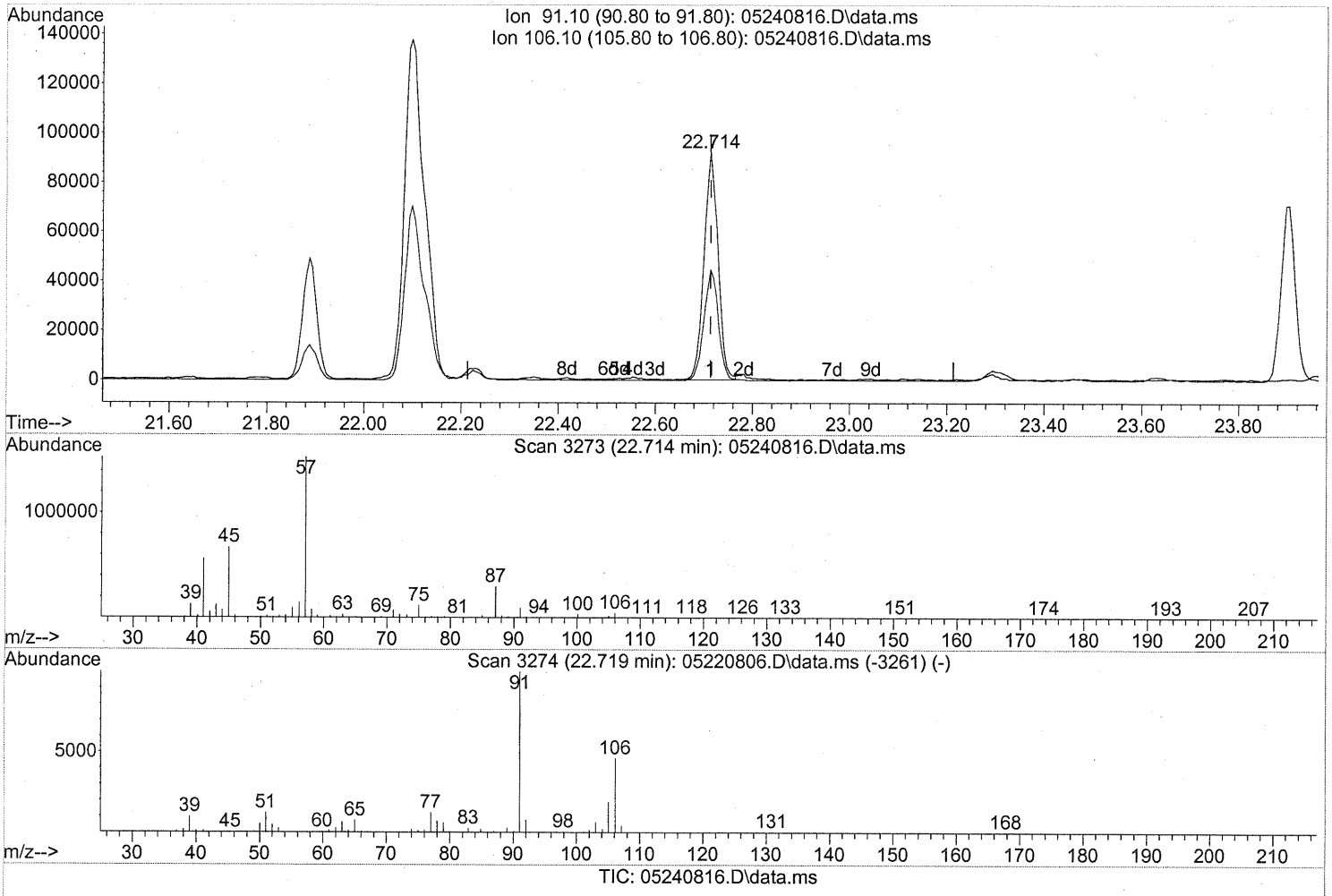
response 12825

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	45.58
103.00	47.10	48.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 1.56ng

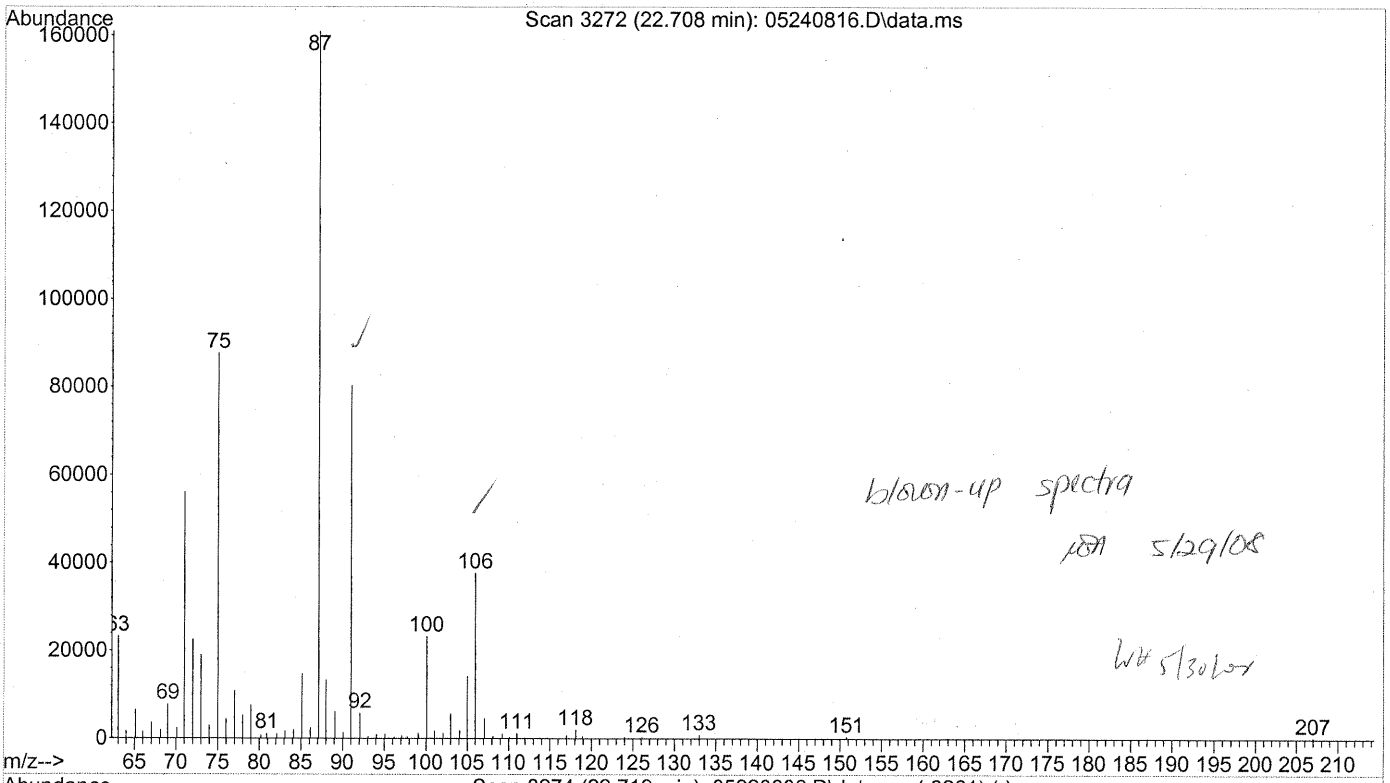
response 184848

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	49.90
0.00	0.00	0.00
0.00	0.00	0.00

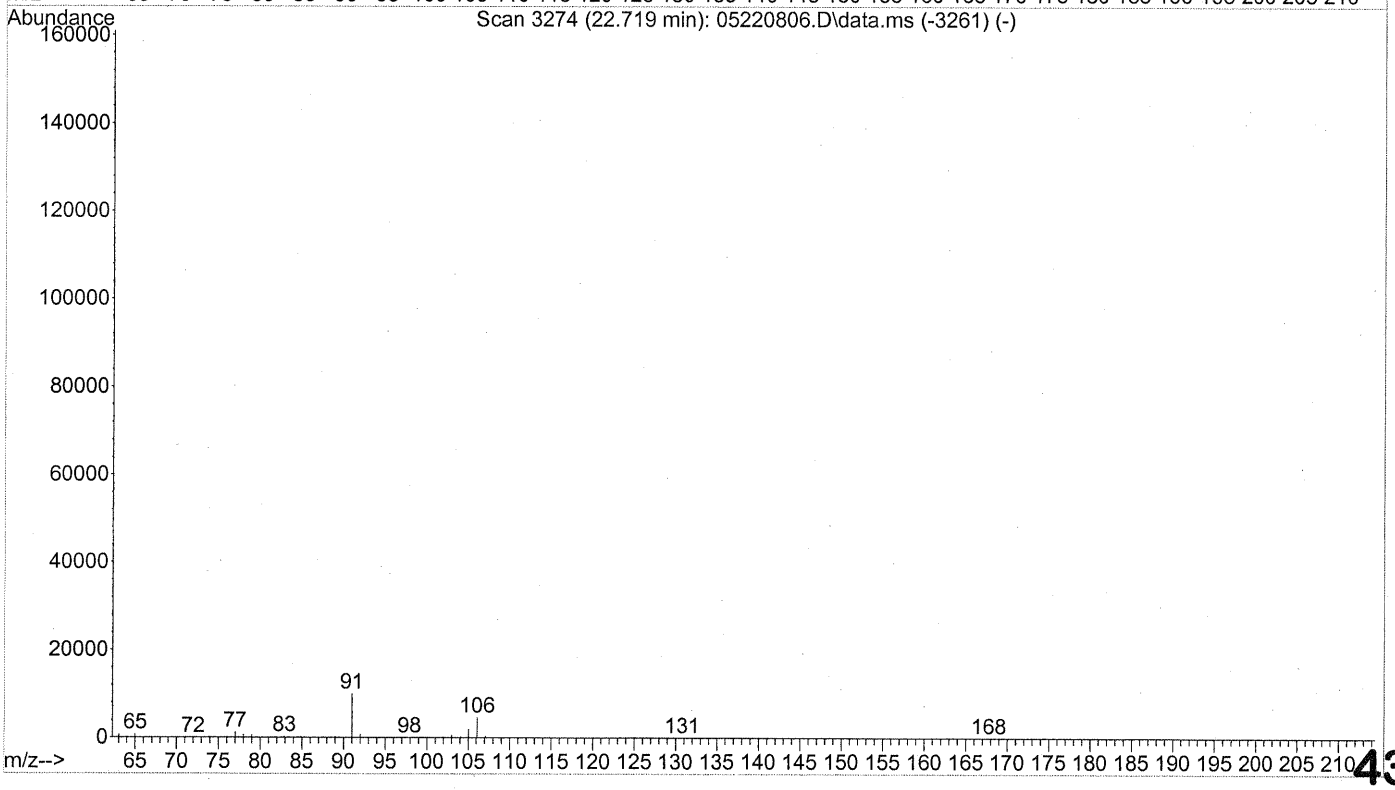
see blown-up

429

File :J:\MS13\DATA\2008_05\24\05240816.D
Operator : WA
Acquired : 24 May 2008 17:25 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-007 (1000ml)
Misc Info : ENSR SG72B-05 (-3.2, 3.5)
Vial Number: 13



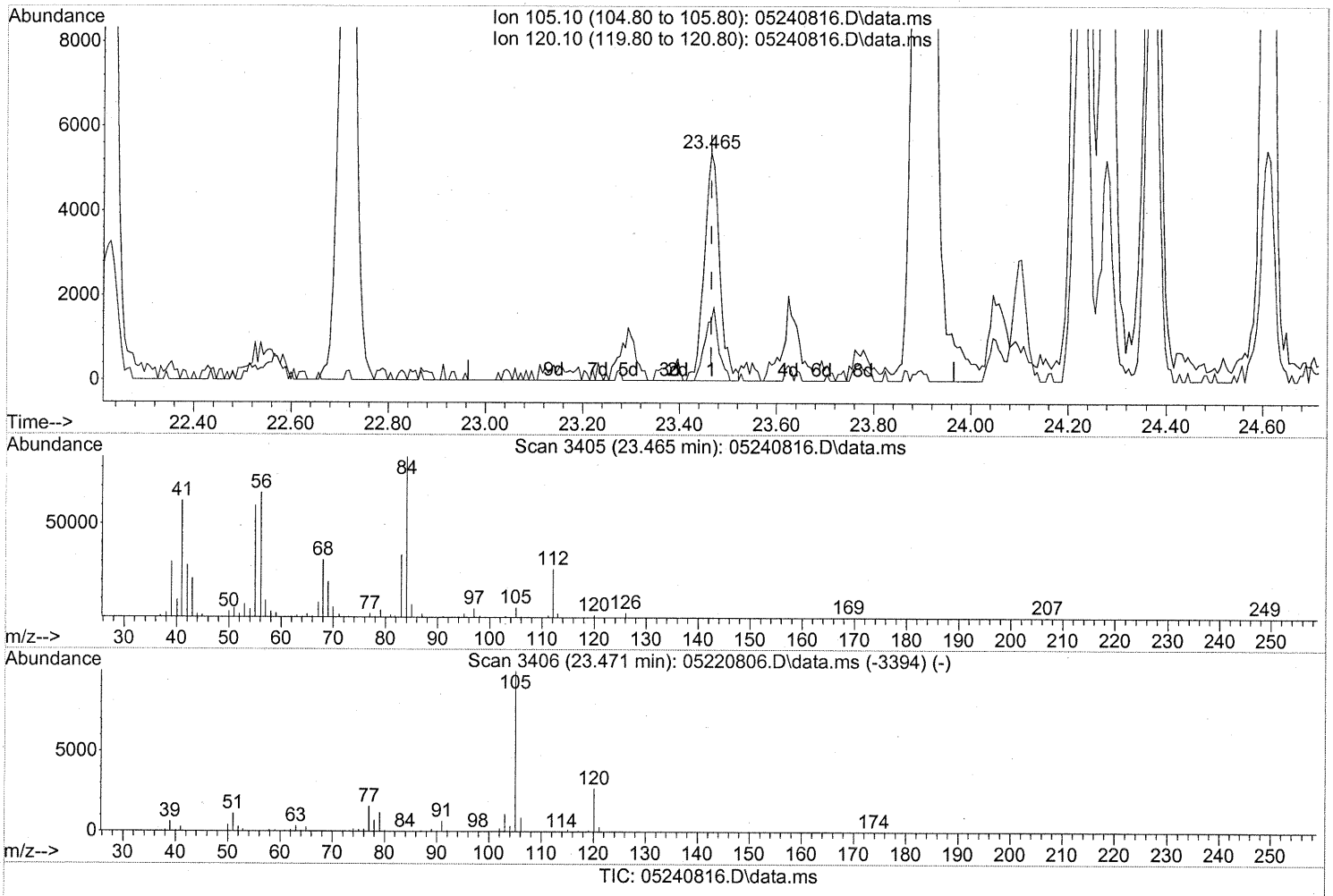
blown-up spectra
MM 5/29/08
WA 5/30/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(74) Cumene (T)

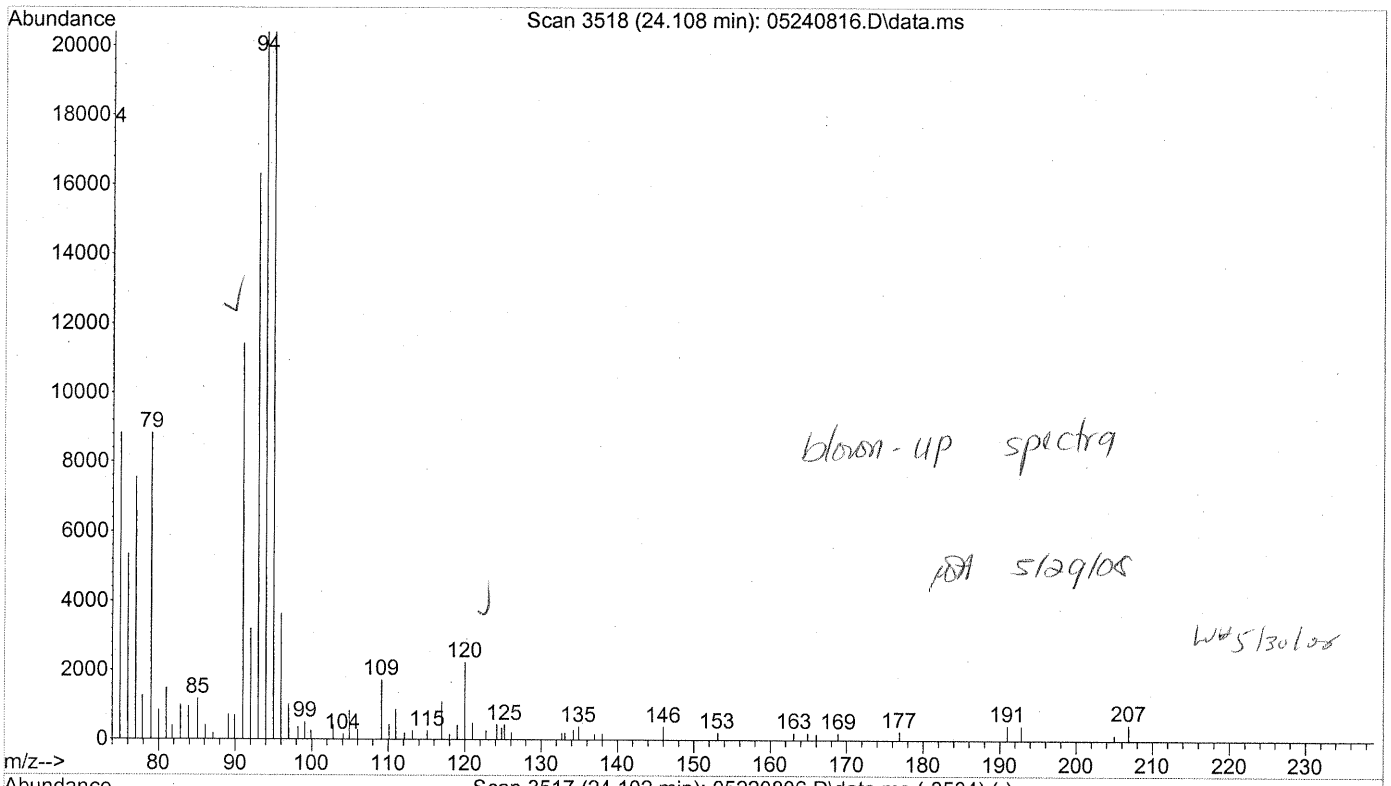
23.465min (-0.000) 0.08ng

response 11909

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	27.45
0.00	0.00	0.00
0.00	0.00	0.00

sw blown-up

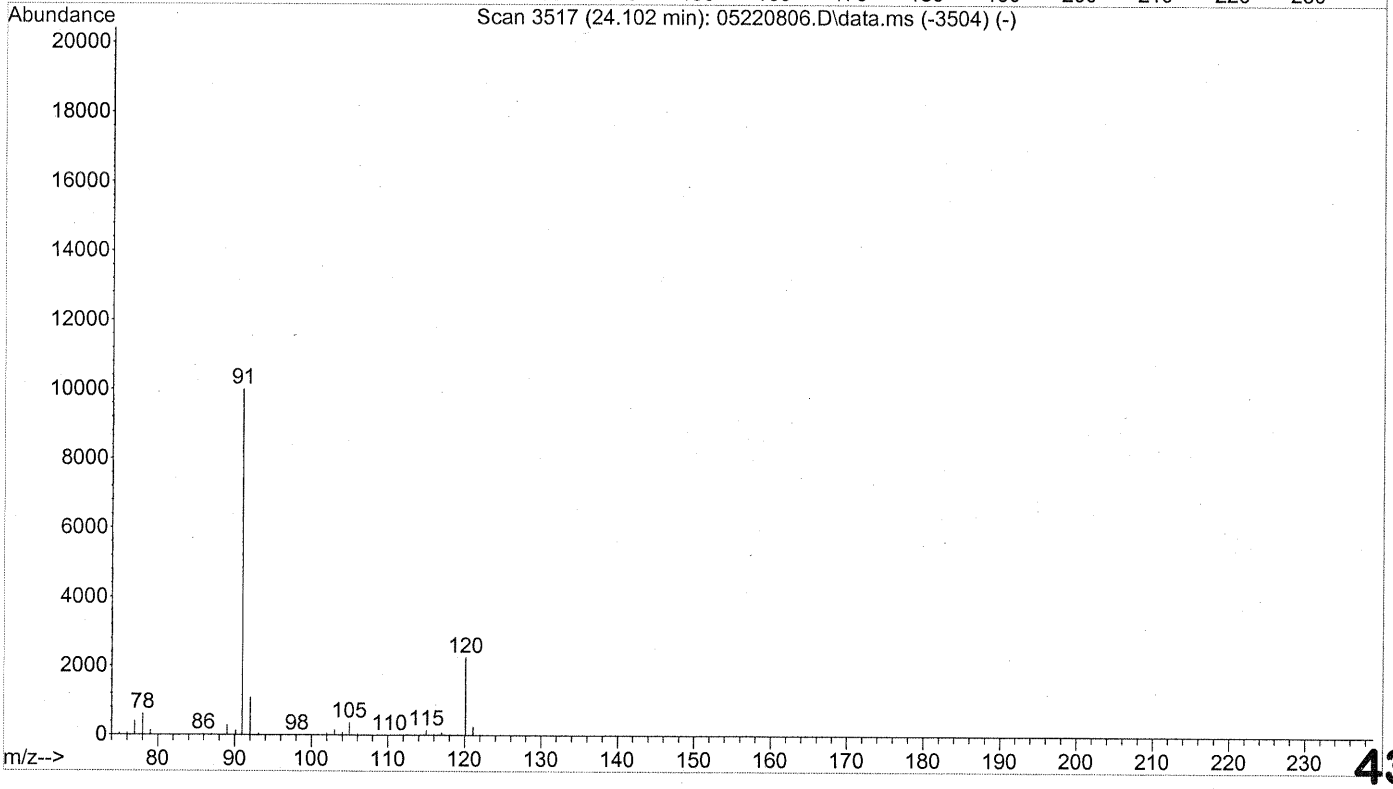
File :J:\MS13\DATA\2008_05\24\05240816.D
Operator : WA
Acquired : 24 May 2008 17:25 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-007 (1000ml)
Misc Info : ENSR SG72B-05 (-3.2, 3.5)
Vial Number: 13



blown-up spectra

pdl 5/29/08

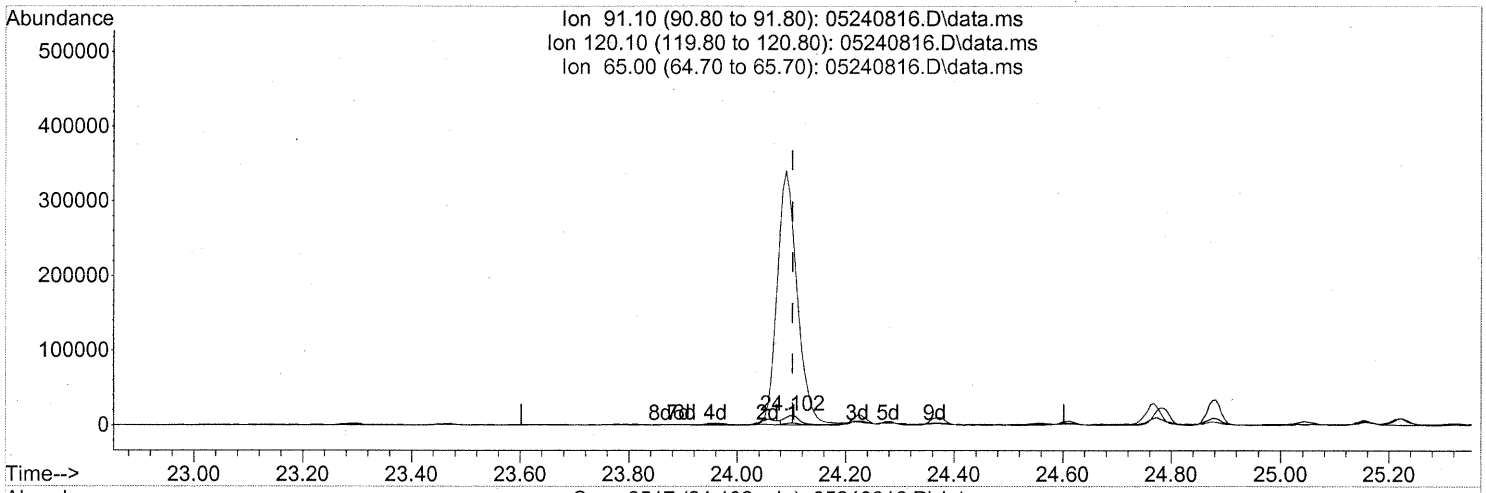
WWS 5/30/08

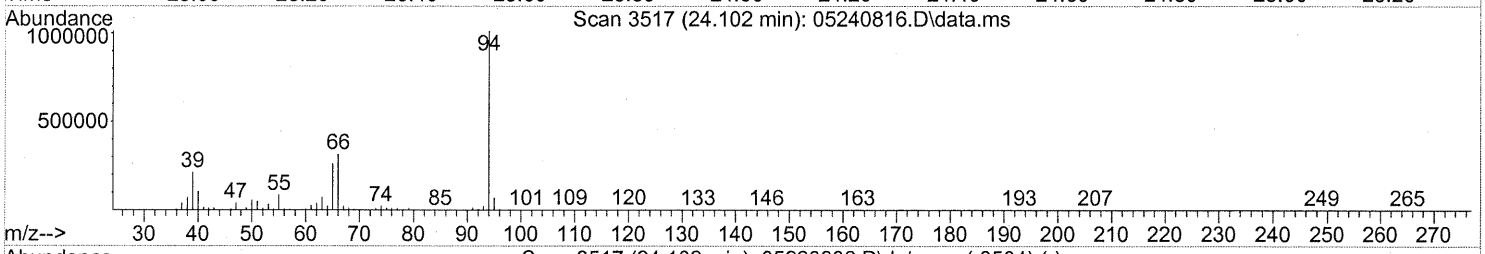


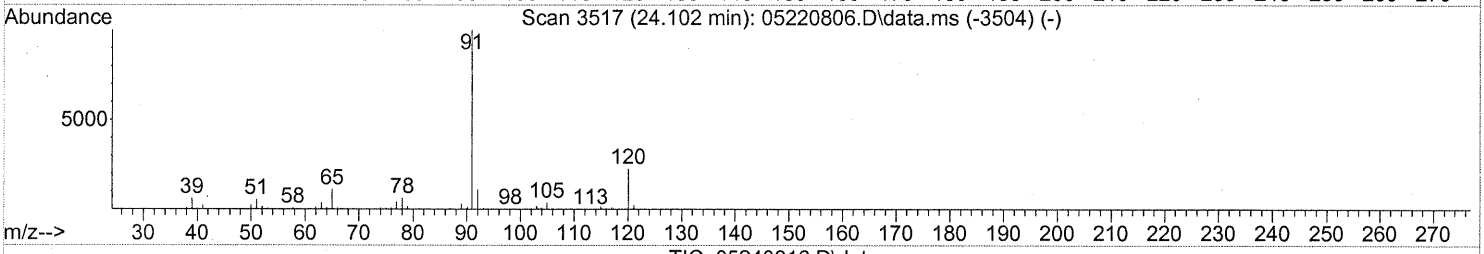
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

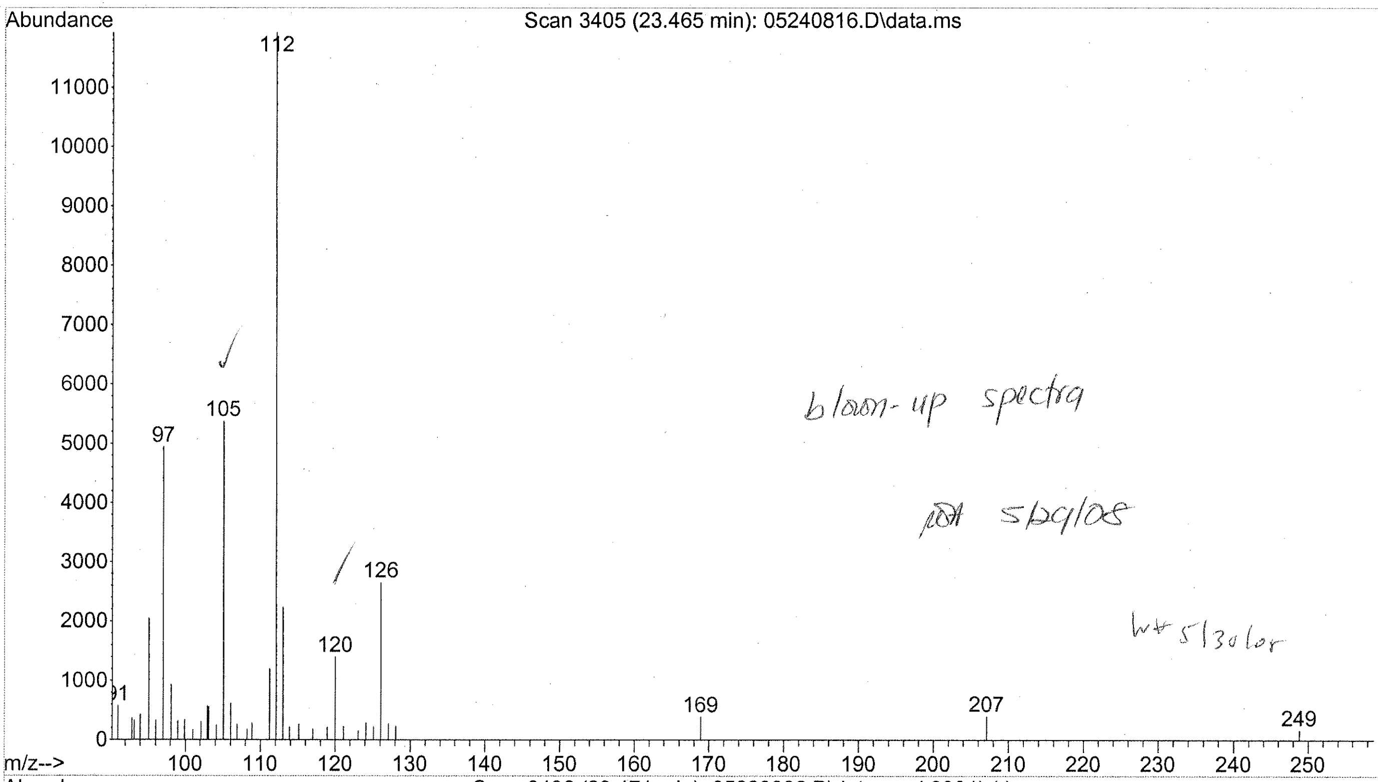
(76) n-Propylbenzene (T)

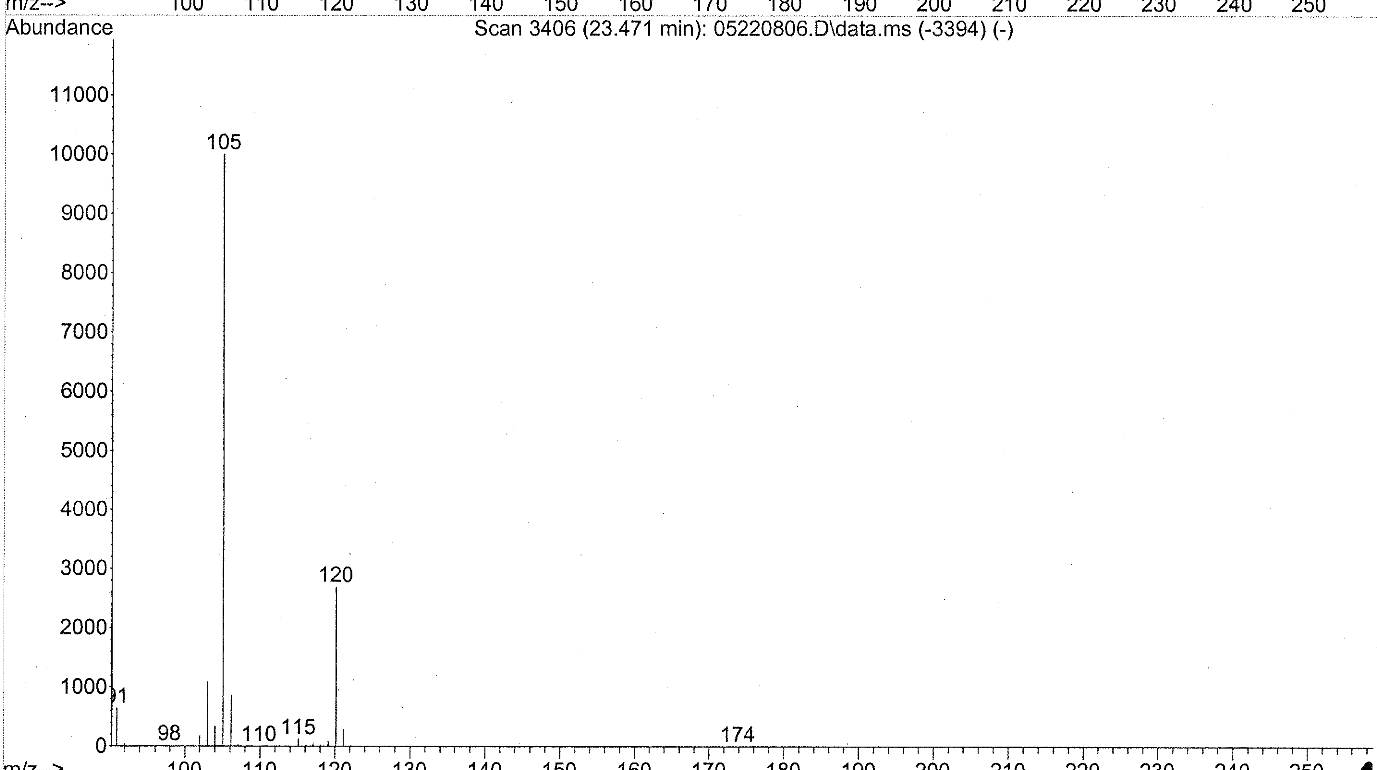
24.102min (-0.000) 0.11ng

response 22952

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	23.41
65.00	11.40	3772.37#
0.00	0.00	0.00

```
File          :J:\MS13\DATA\2008_05\24\05240816.D
Operator      : WA
Acquired      : 24 May 2008  17:25      using AcqMethod TO15.M
Instrument :    GCMS13
Sample Name: P0801442-007 (1000ml)
Misc Info  : ENSR SG72B-05 (-3.2, 3.5)
Vial Number: 13
```

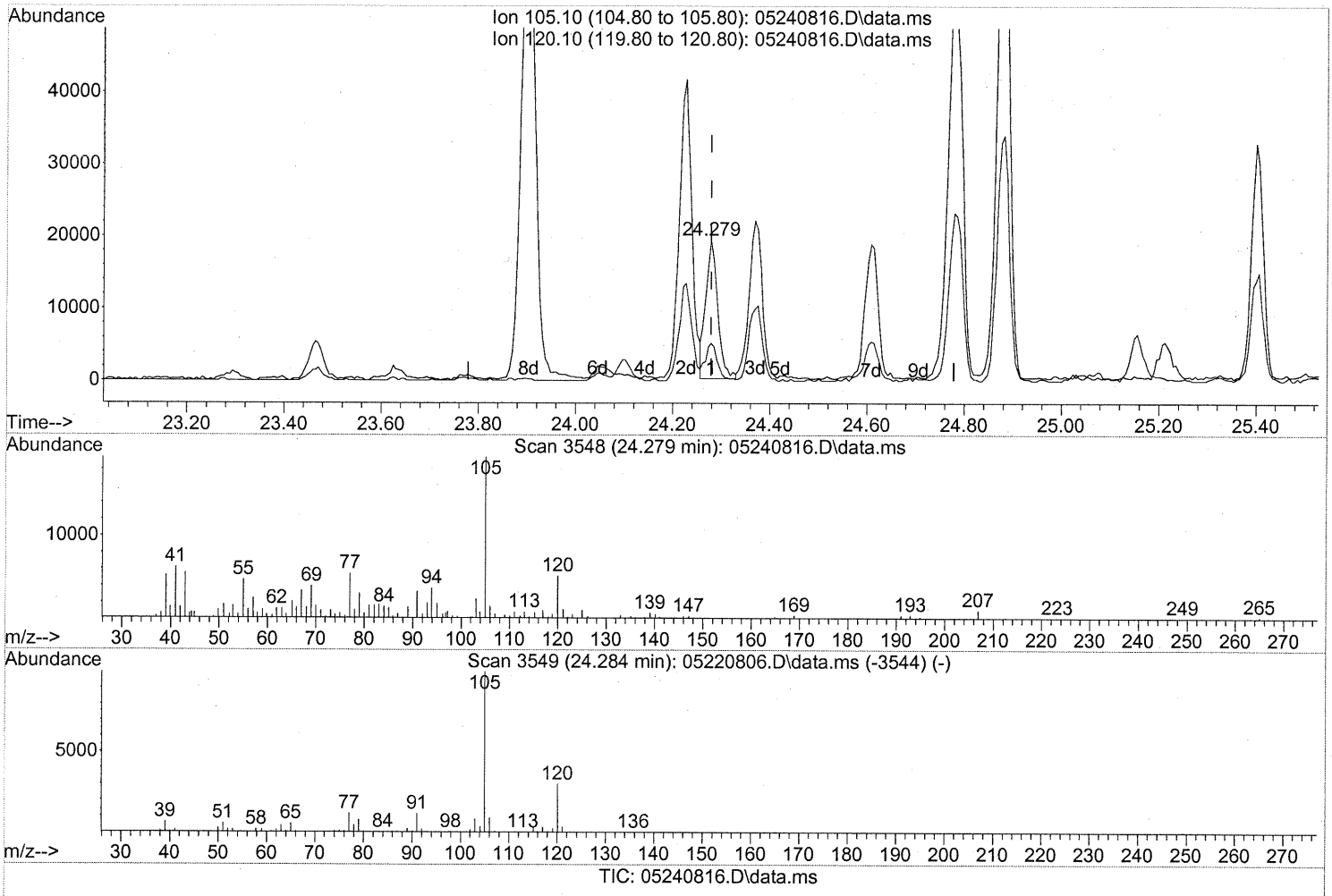




Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.21ng

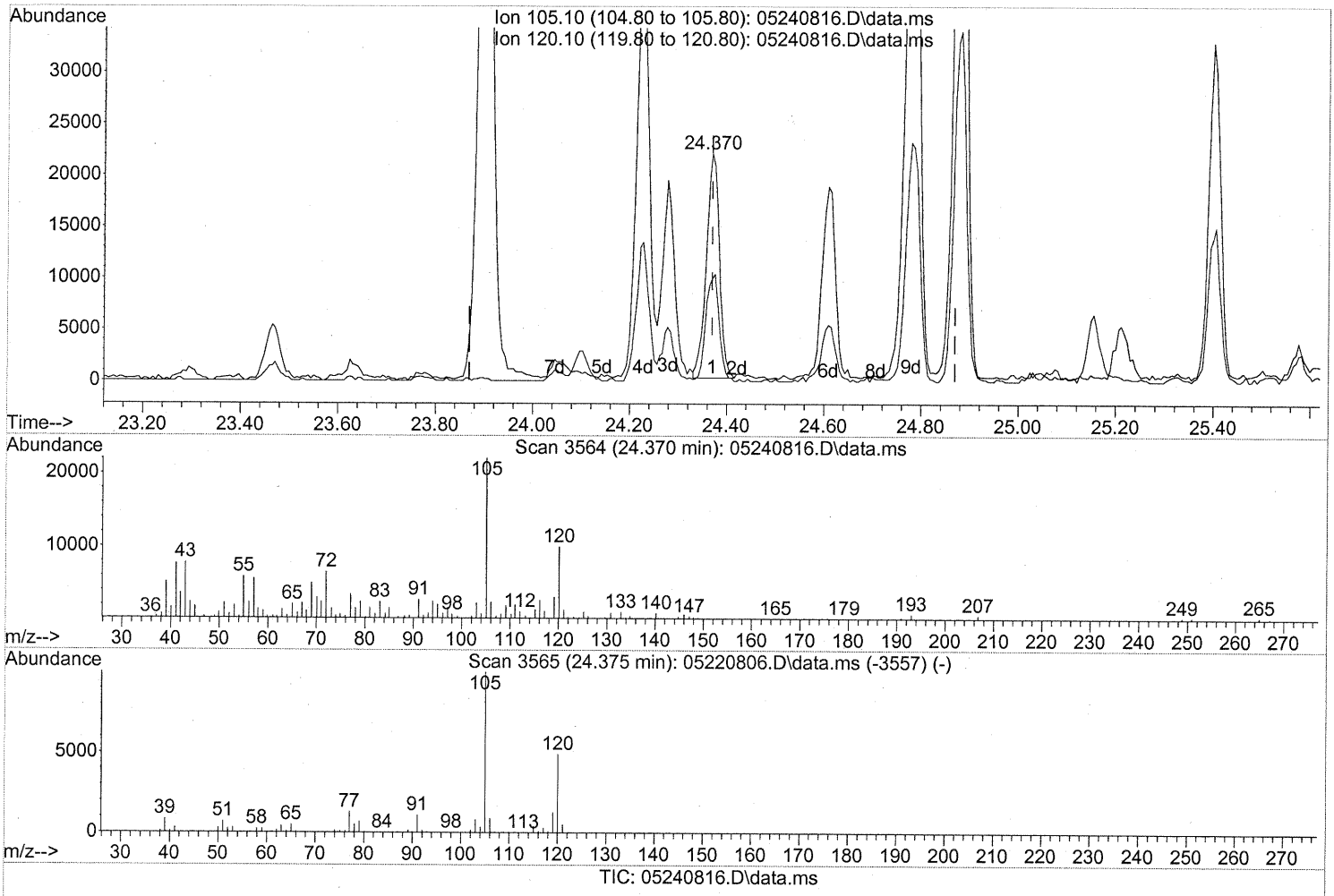
response 32700

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	27.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

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

24.370min (-0.000) 0.29ng

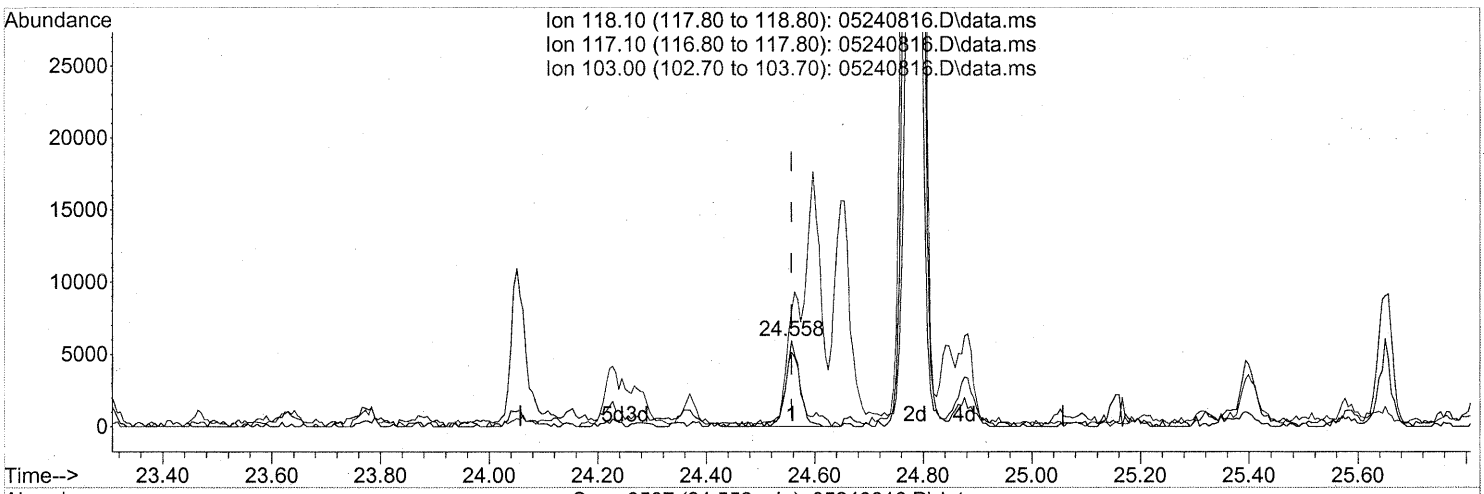
response 40952

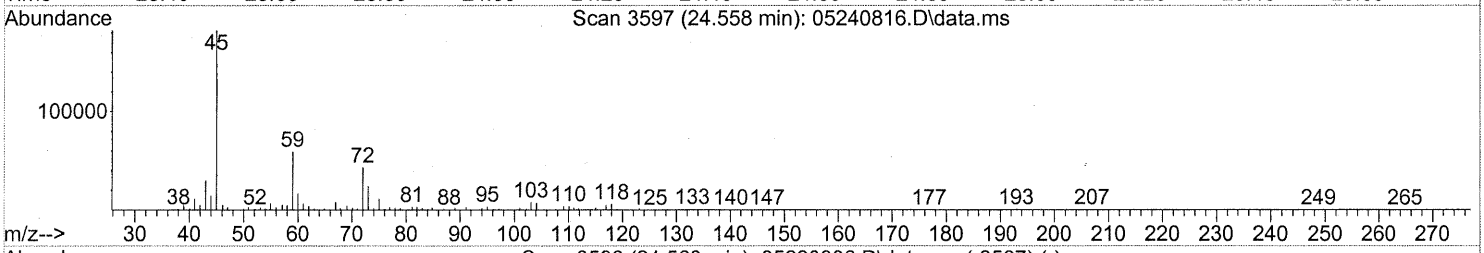
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.73
0.00	0.00	0.00
0.00	0.00	0.00

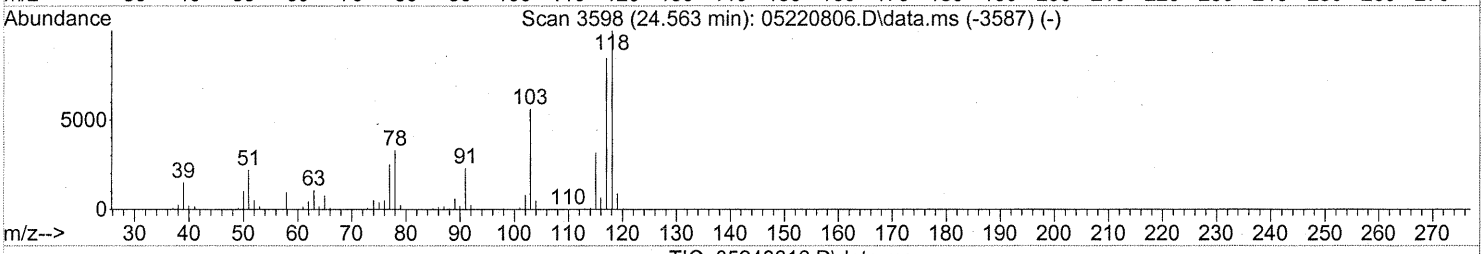
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(80) alpha-Methylstyrene (T)

24.558min (-0.000) 0.14ng

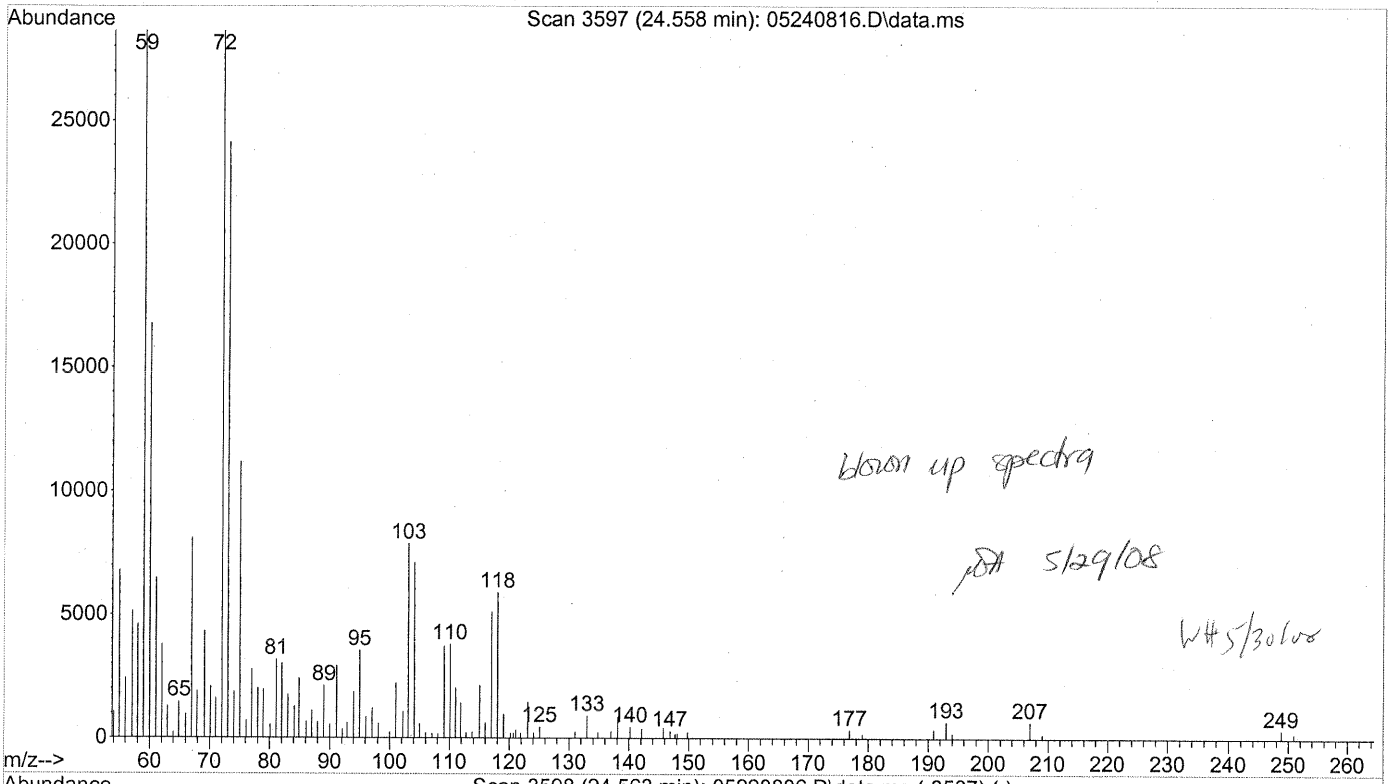
response 10338

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	111.60#
103.00	55.30	160.38#
0.00	0.00	0.00

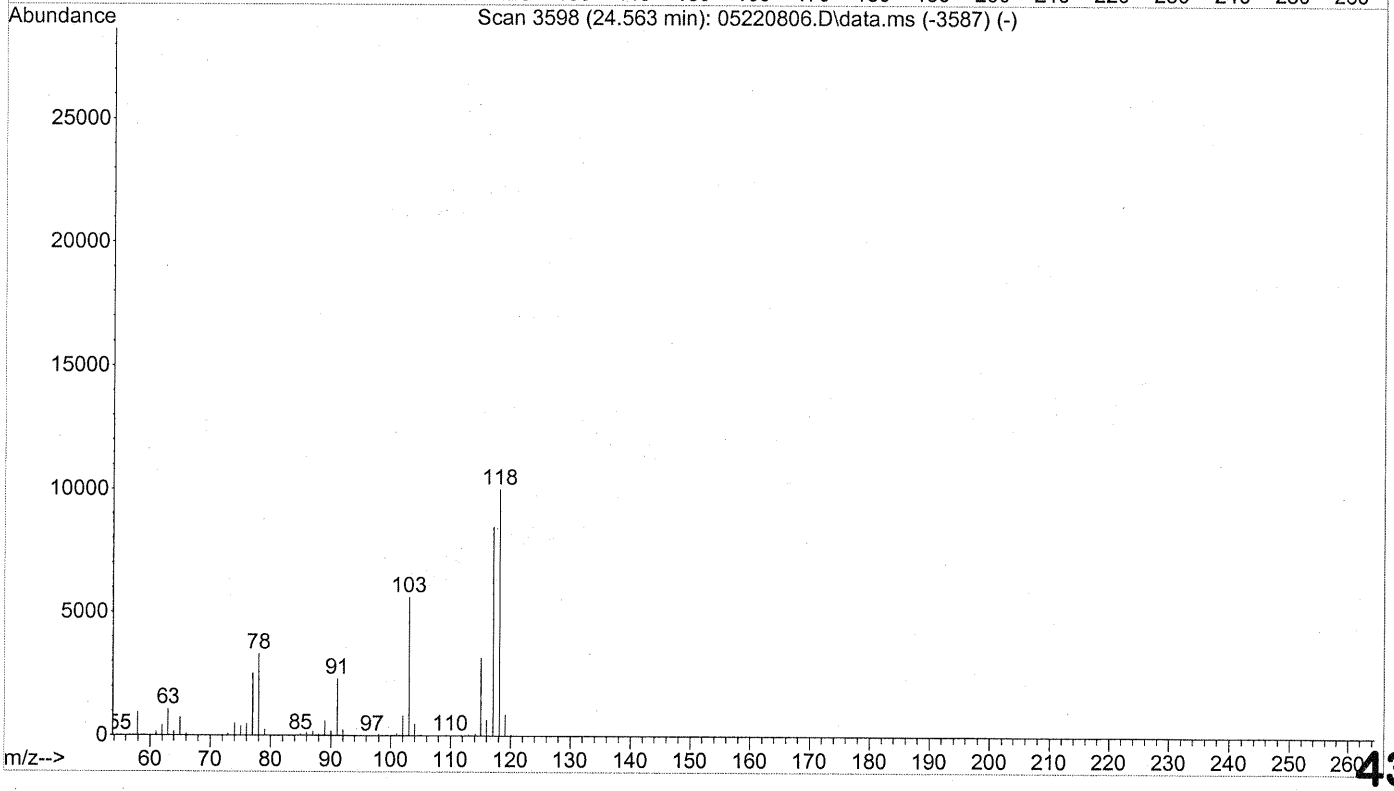
see blown-up spectra

437

File :J:\MS13\DATA\2008_05\24\05240816.D
Operator : WA
Acquired : 24 May 2008 17:25 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-007 (1000ml)
Misc Info : ENSR SG72B-05 (-3.2, 3.5)
Vial Number: 13



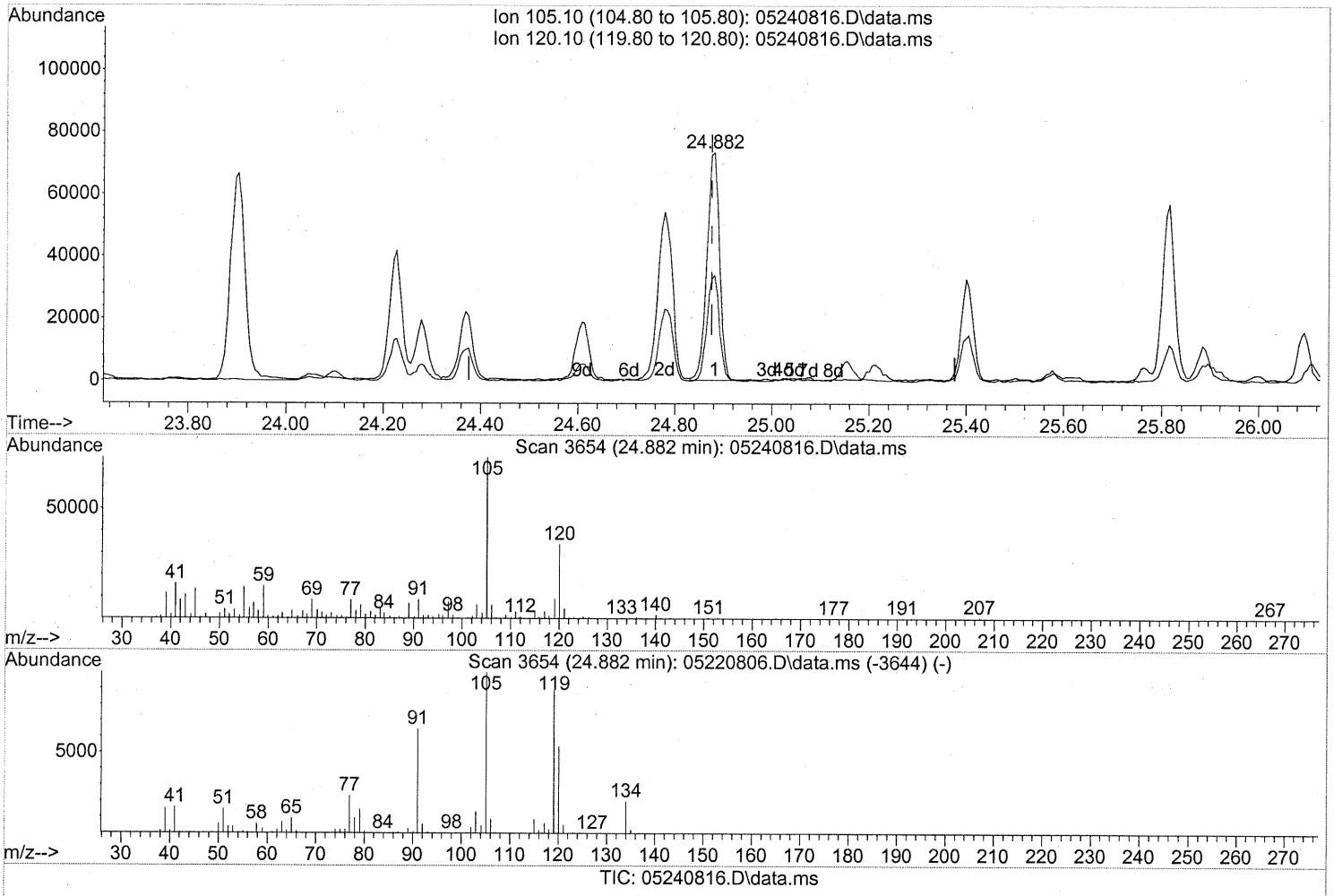
blown up spectra
JDH 5/29/08
WH 5/30/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

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

24.882min (+0.006) 0.92ng

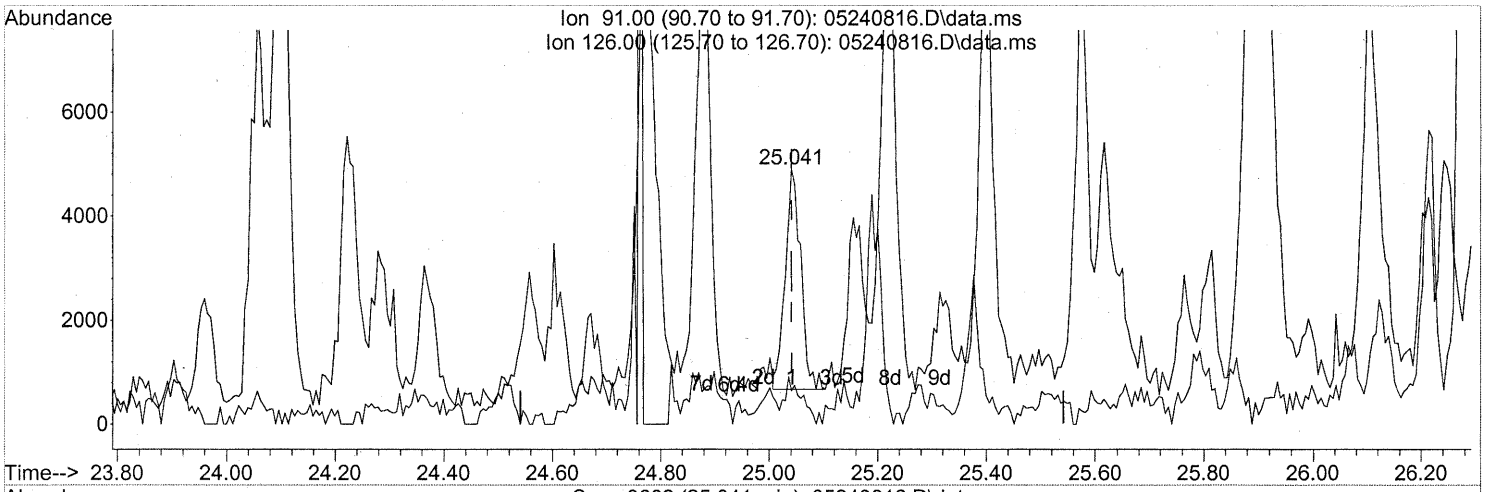
response 132313

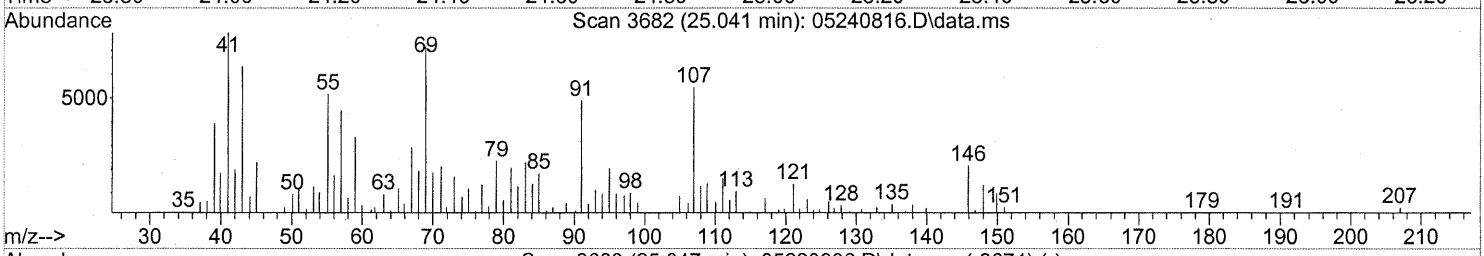
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.22
0.00	0.00	0.00
0.00	0.00	0.00

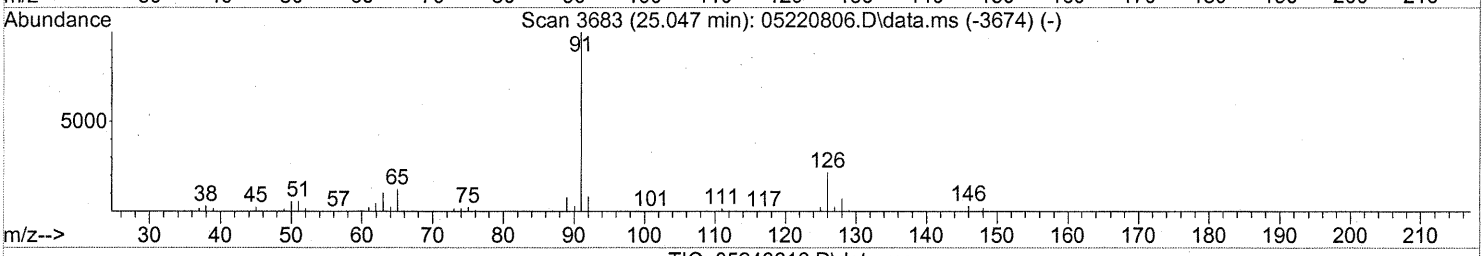
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(84) Benzyl Chloride (T)

25.041min (-0.000) 0.09ng

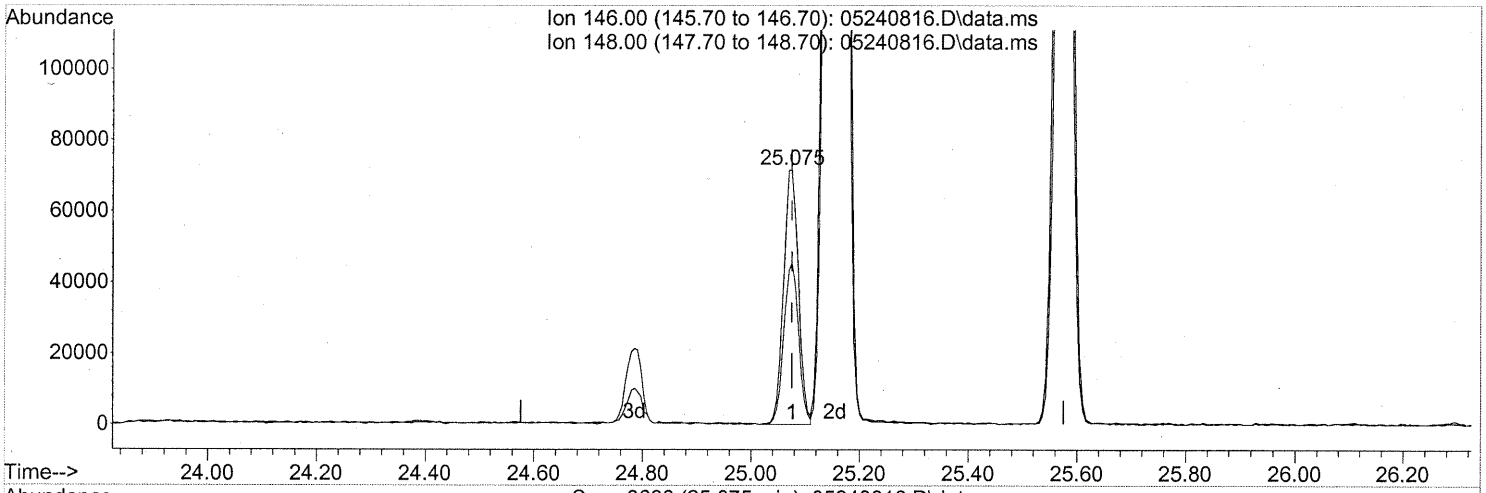
response 8493

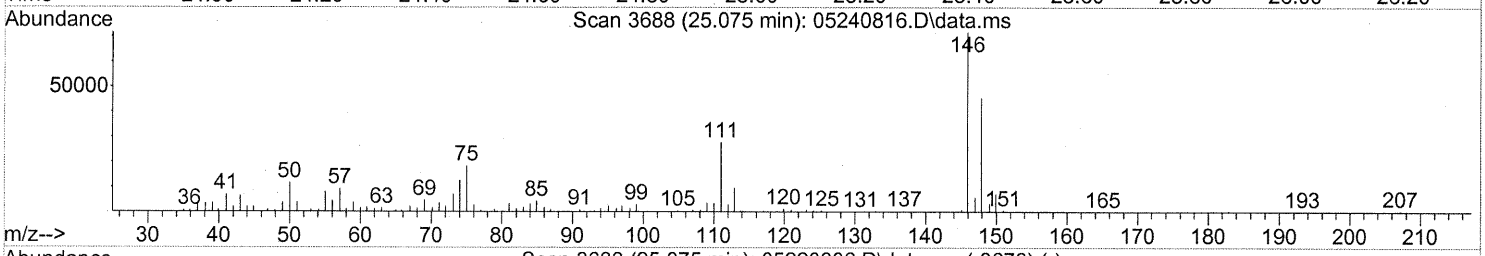
Ion	Exp%	Act%
91.00	100	100
126.00	22.50	22.49
0.00	0.00	0.00
0.00	0.00	0.00

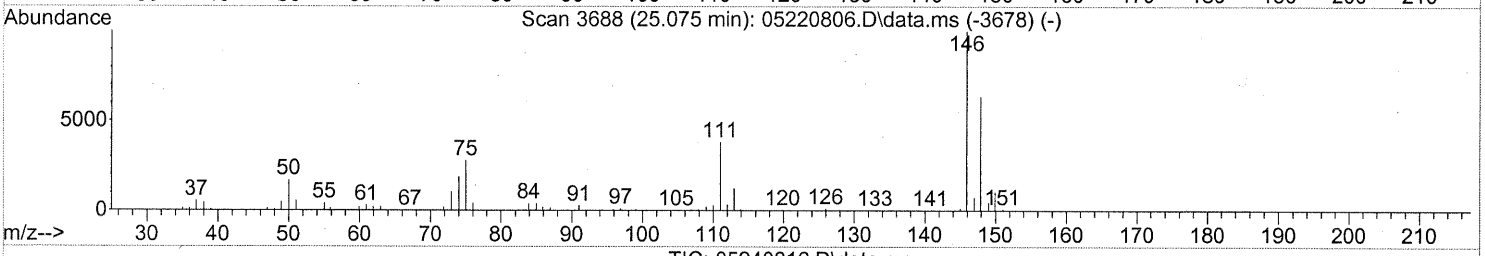
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 1.52ng

response 136363

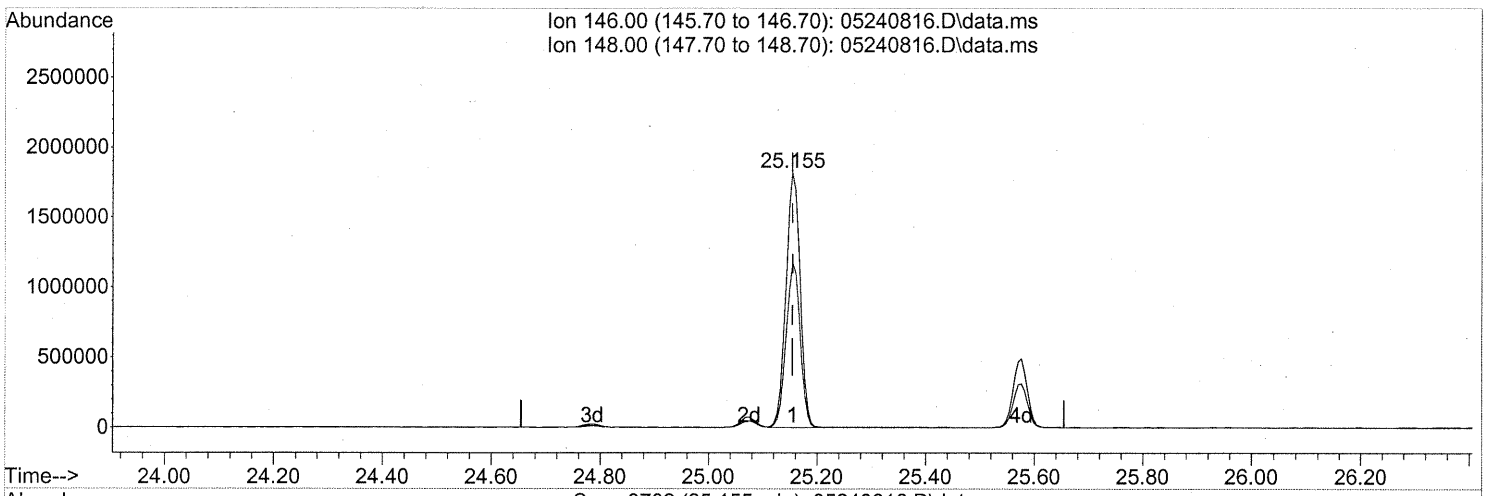
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	62.99
0.00	0.00	0.00
0.00	0.00	0.00

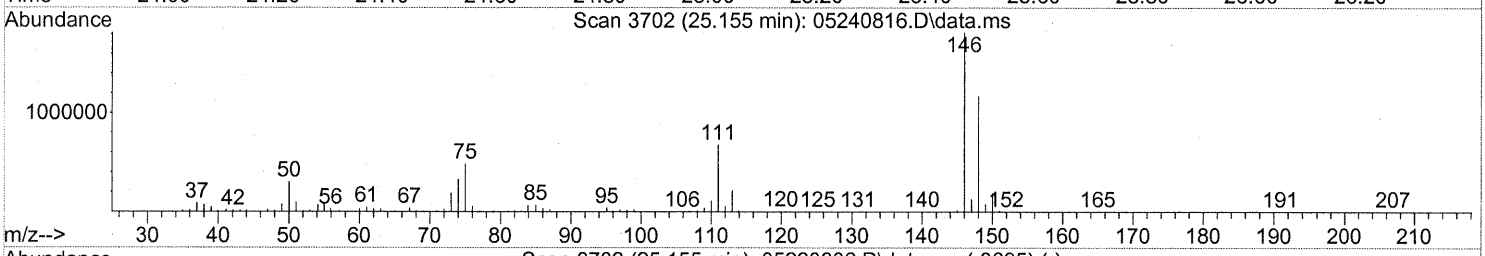
441

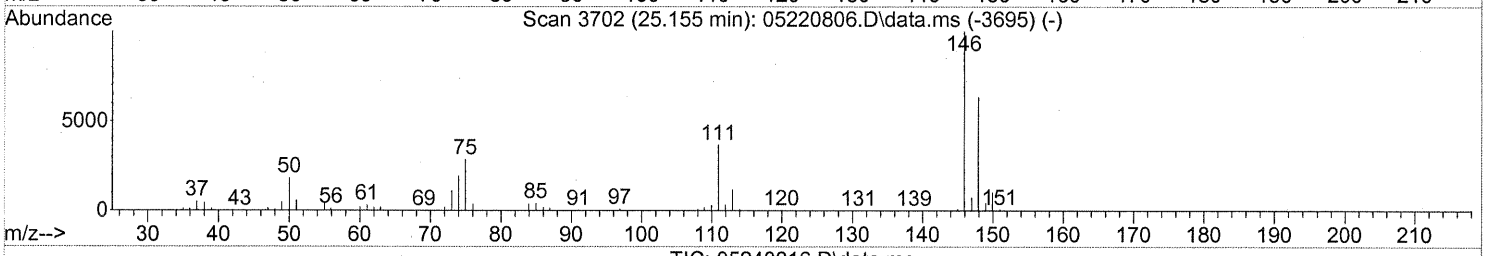
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 37.80ng

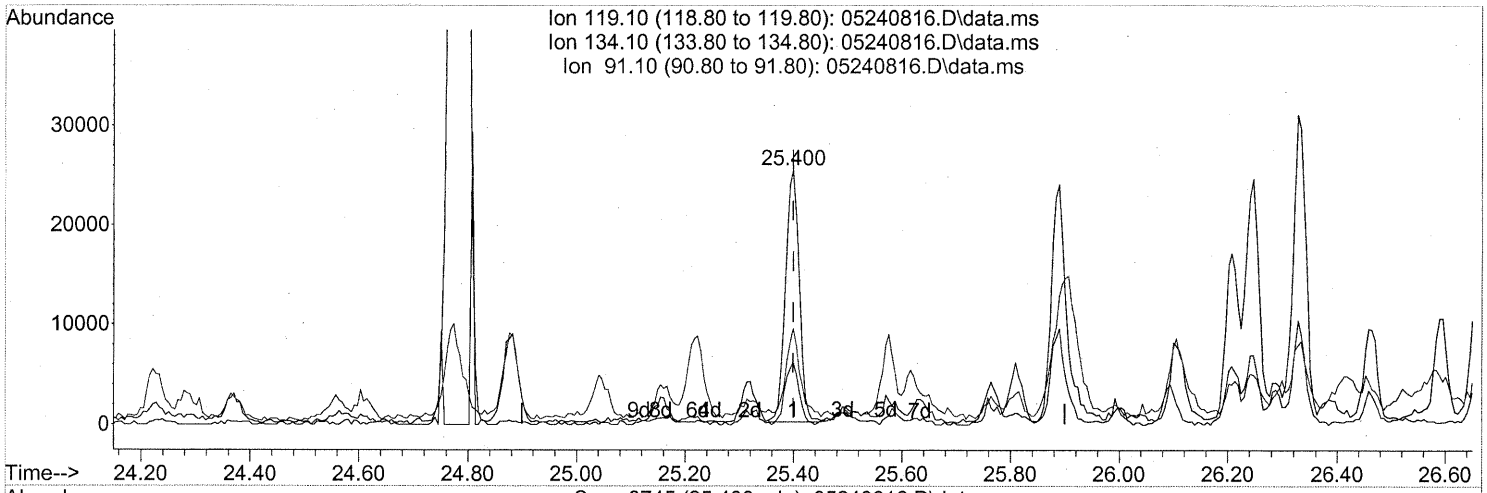
response 3289716

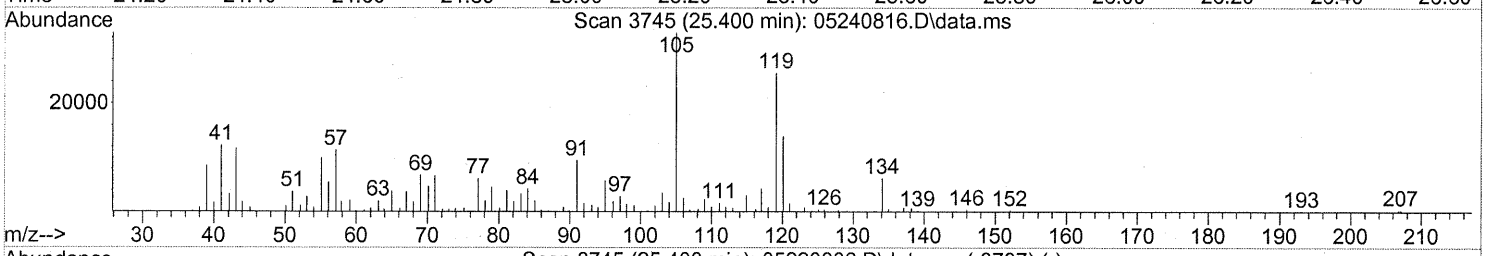
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.82
0.00	0.00	0.00
0.00	0.00	0.00

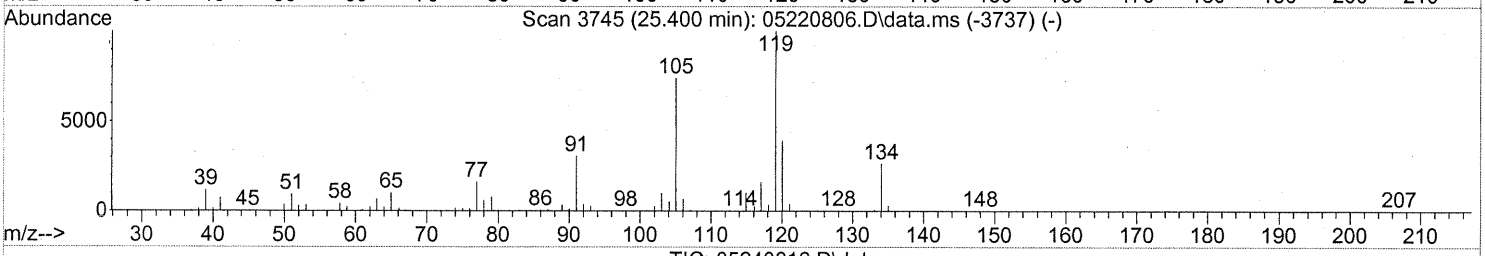
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.30ng

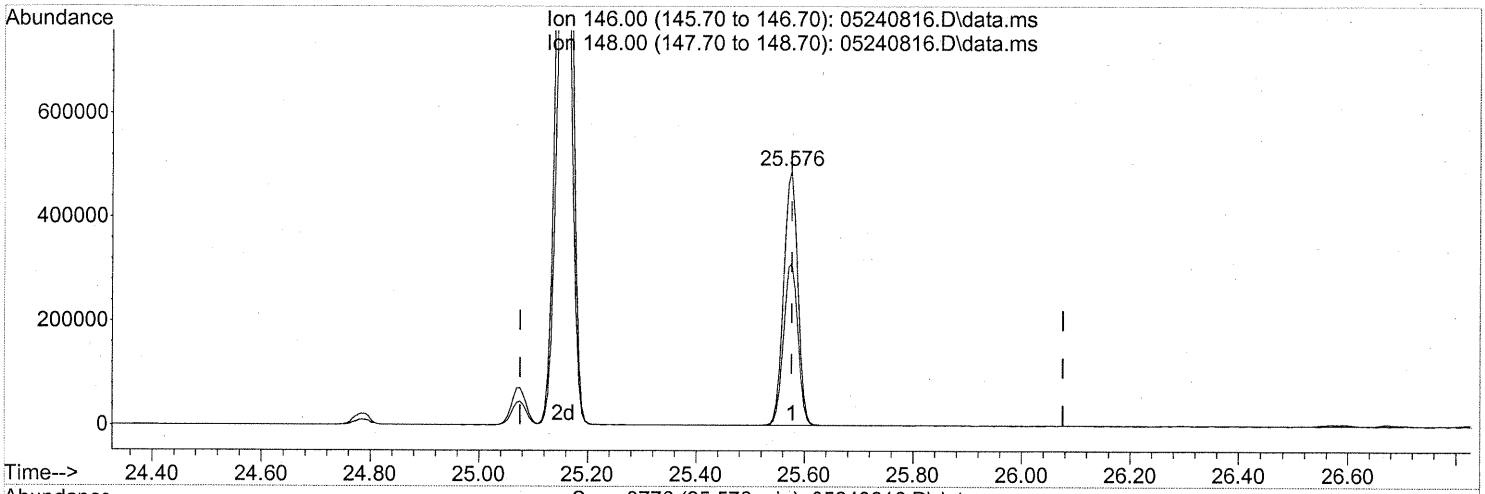
response 44928

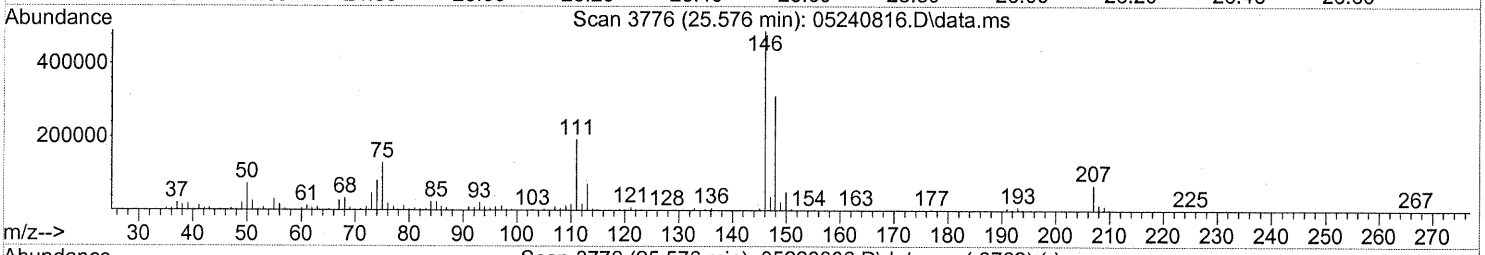
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	25.25
91.10	27.10	36.11
0.00	0.00	0.00

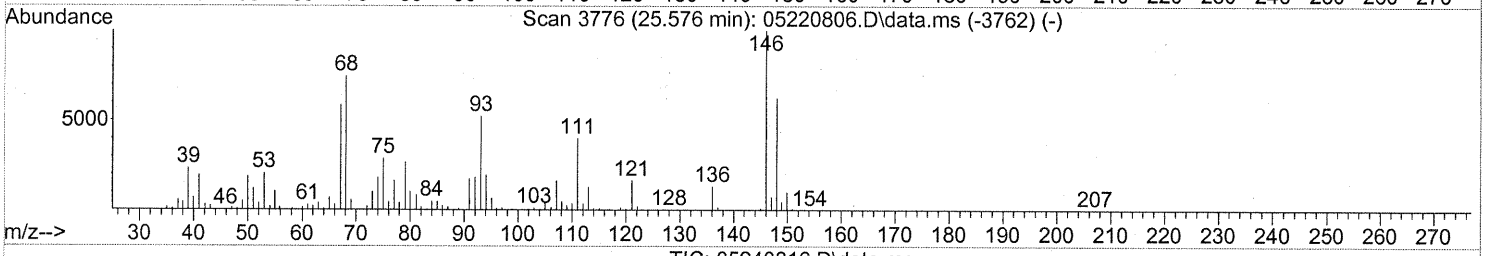
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.576min (-0.000) 10.34ng

response 880432

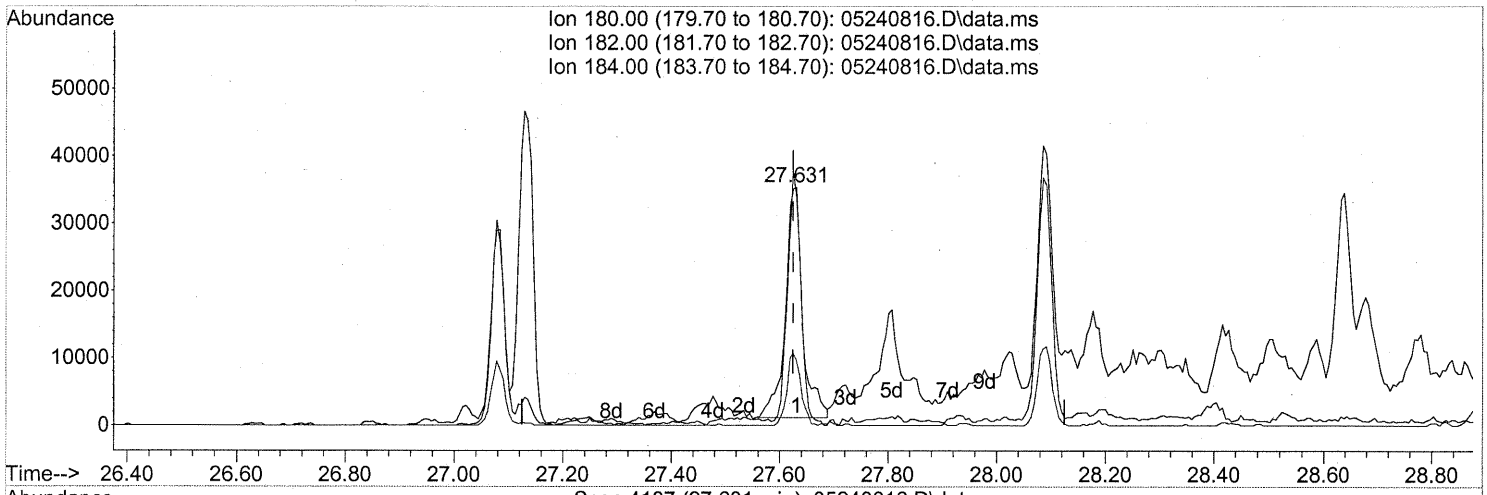
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	64.83
0.00	0.00	0.00
0.00	0.00	0.00

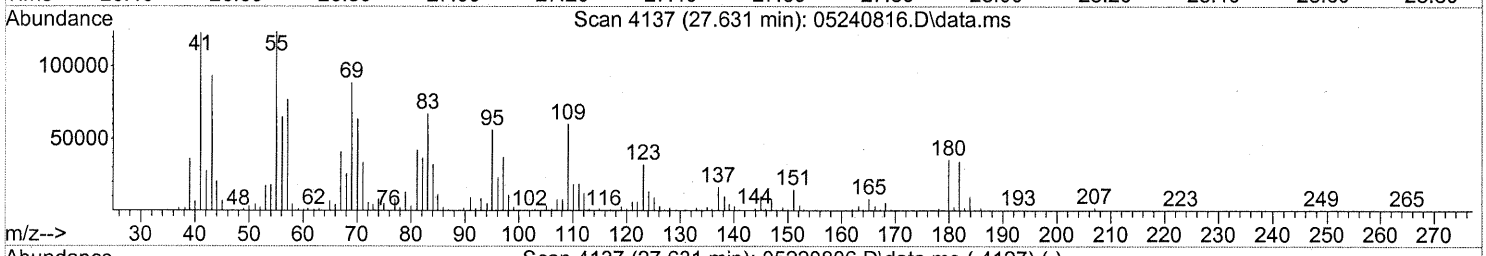
444

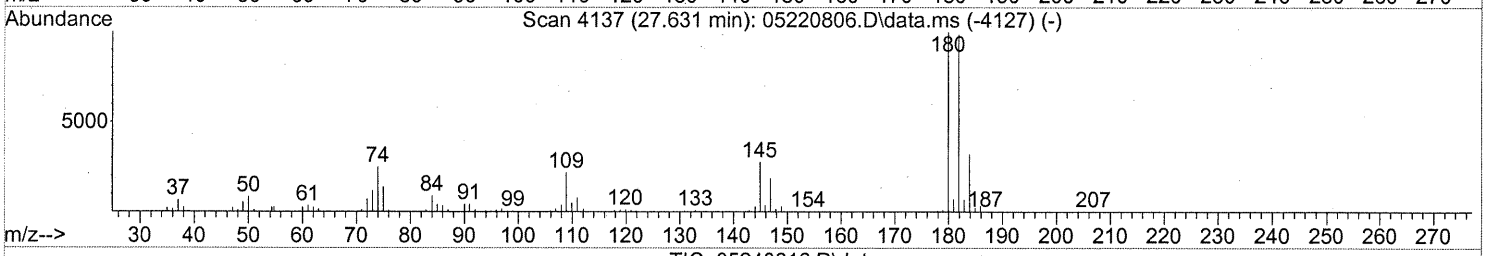
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.631min (+0.006) 1.21ng

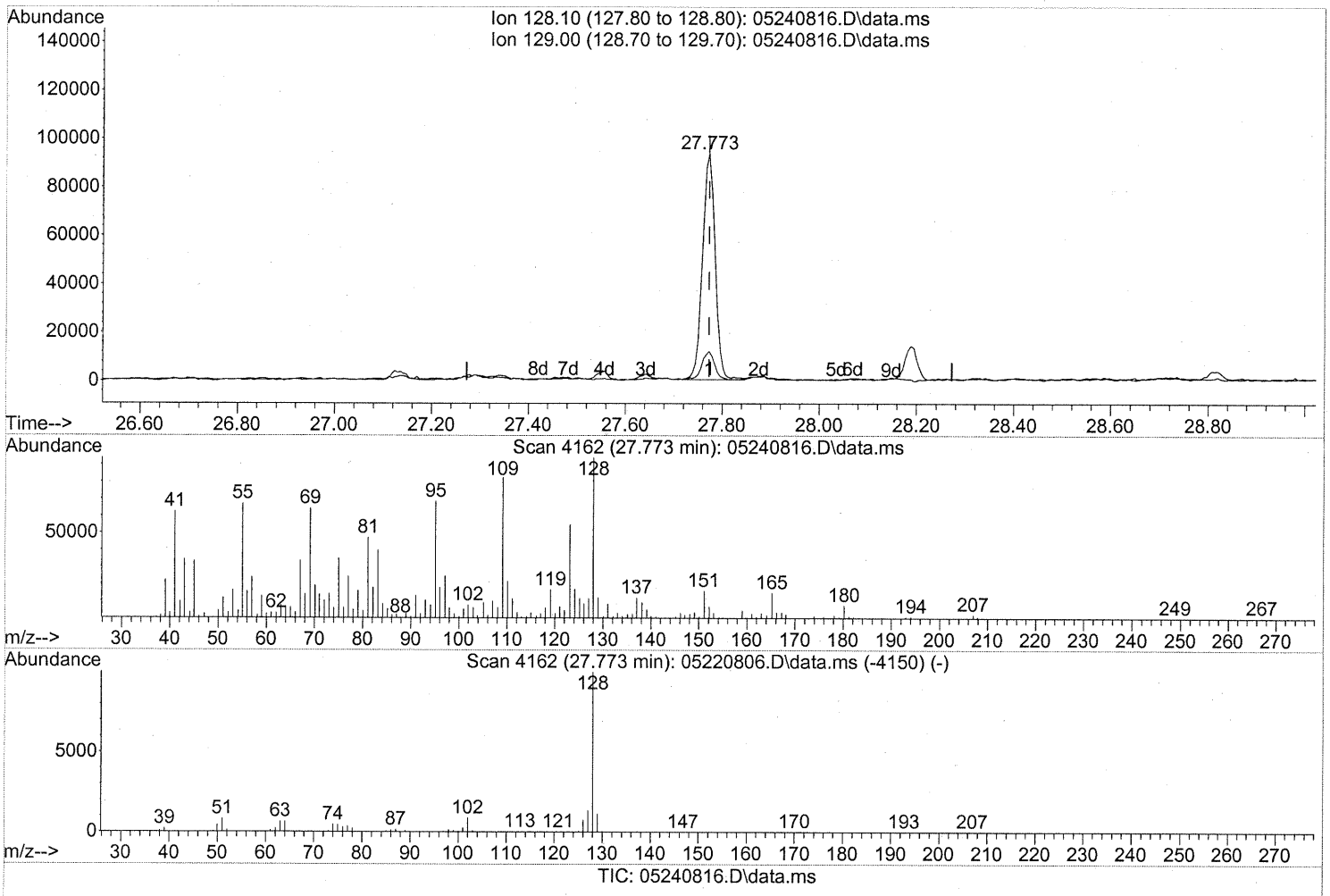
response 75440

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	86.04
184.00	30.30	25.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 0.88ng

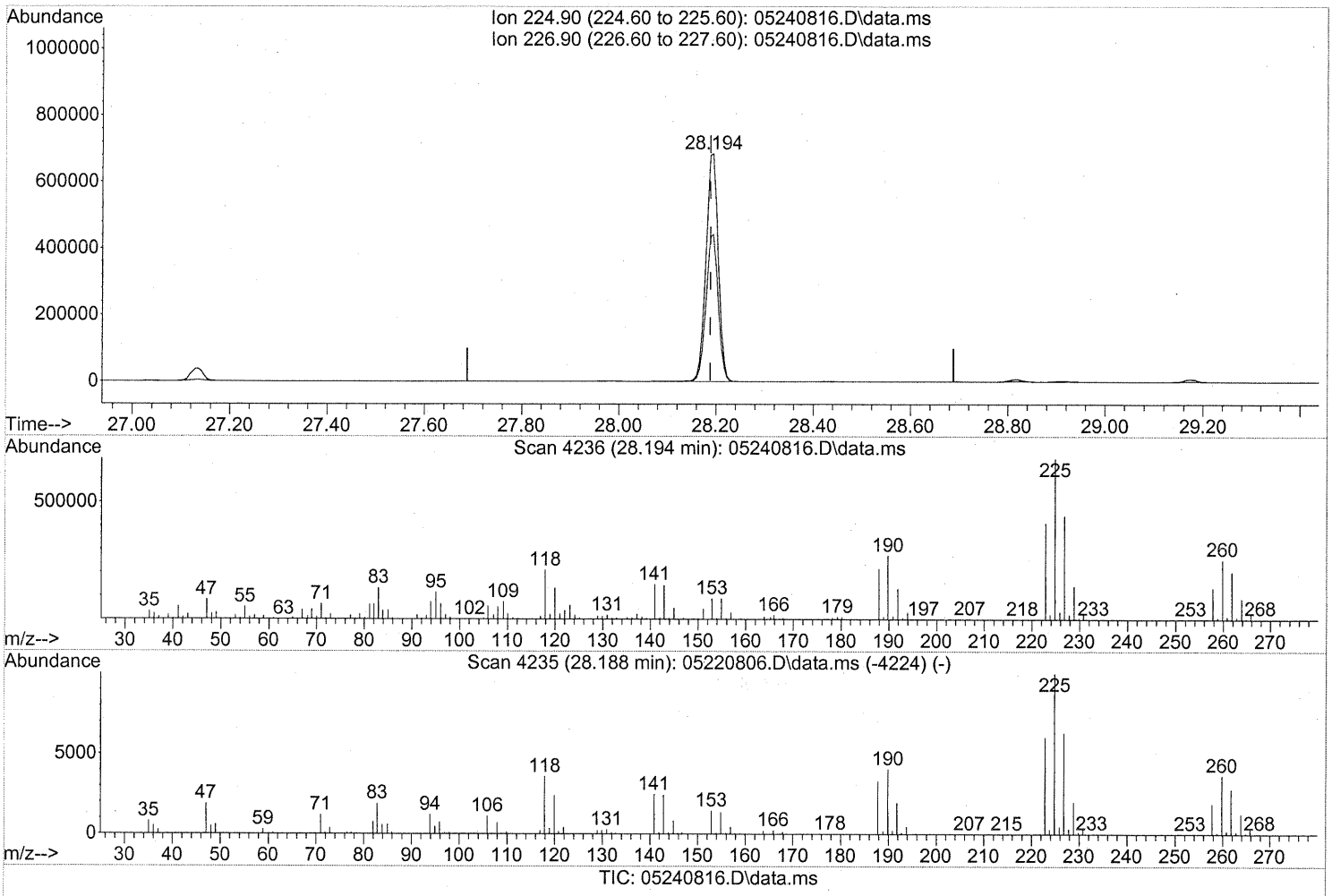
response 167101

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 07:49:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240816.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.194min (+0.006) 28.96ng

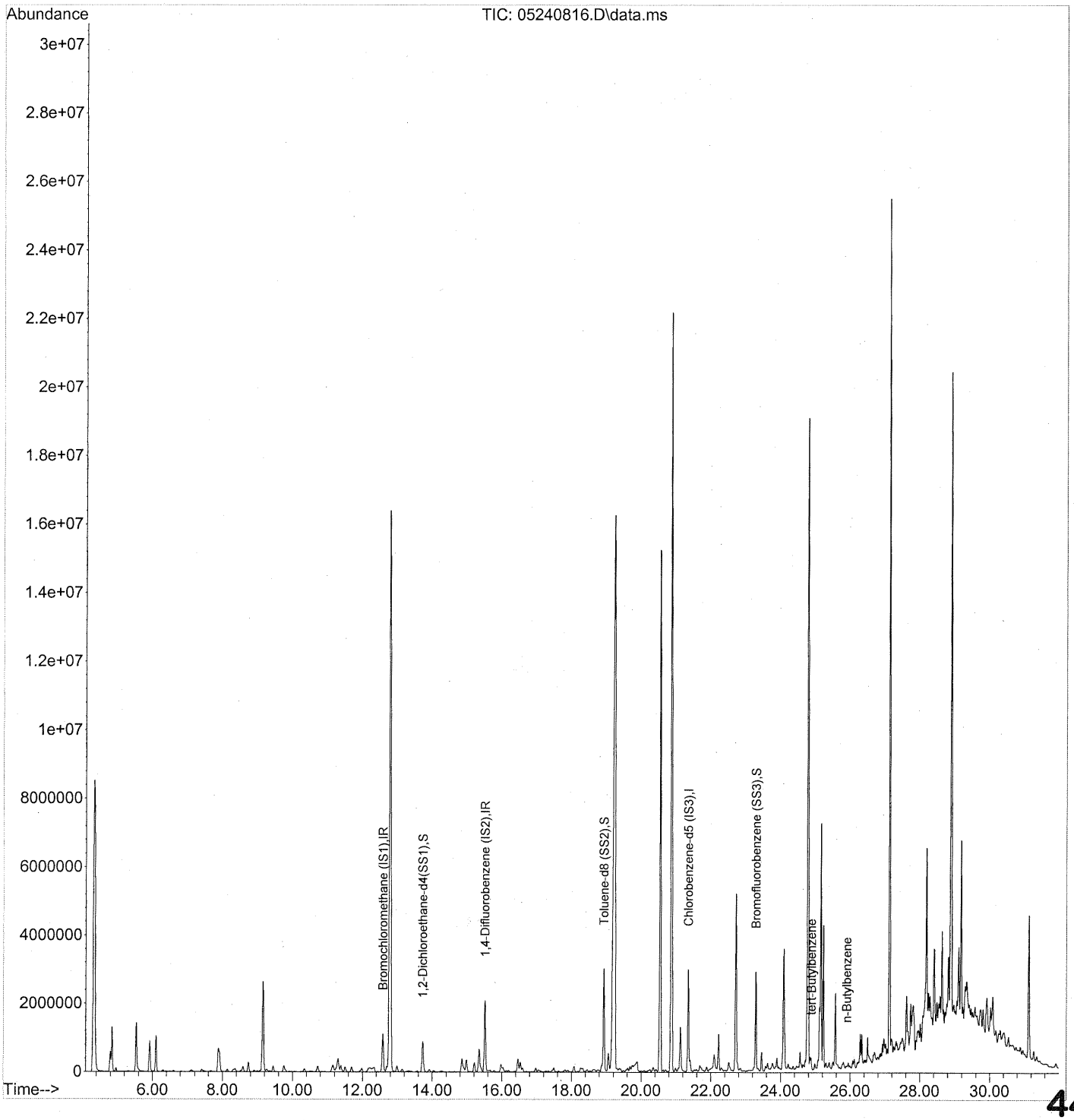
response 1202428

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 20:36:59 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 20:36:59 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	585660	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2449883	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1168878	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	13.73	65	903459	22.264	ng		-0.02
Spiked Amount 25.000			Recovery = 89.04%				
5) Toluene-d8 (SS2)	18.93	98	2564155	24.426	ng		-0.01
Spiked Amount 25.000			Recovery = 97.72%				
6) Bromofluorobenzene (SS3)	23.29	174	1091827	25.577	ng		0.00
Spiked Amount 25.000			Recovery = 102.32%				
Target Compounds							Qvalue
7) tert-Butylbenzene	24.88	119	17633	~~0.128 ng~~	UR	#	65
8) n-Butylbenzene	25.91	91	42622	0.281 ng		#	66

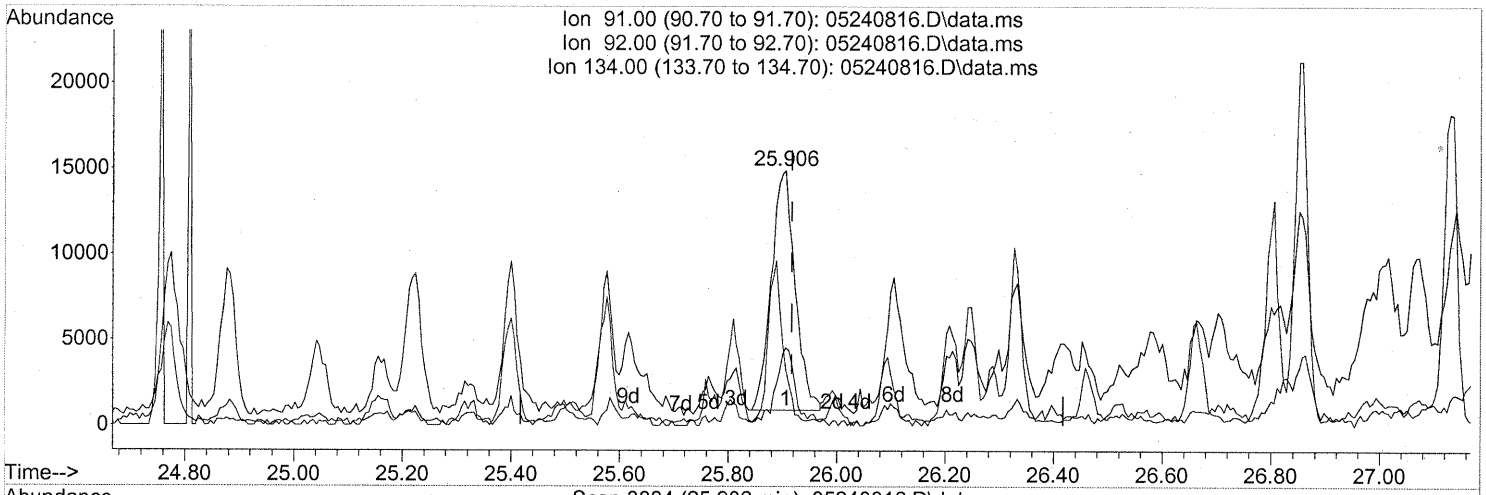
(#) = qualifier out of range (m) = manual integration (+) = signals summed

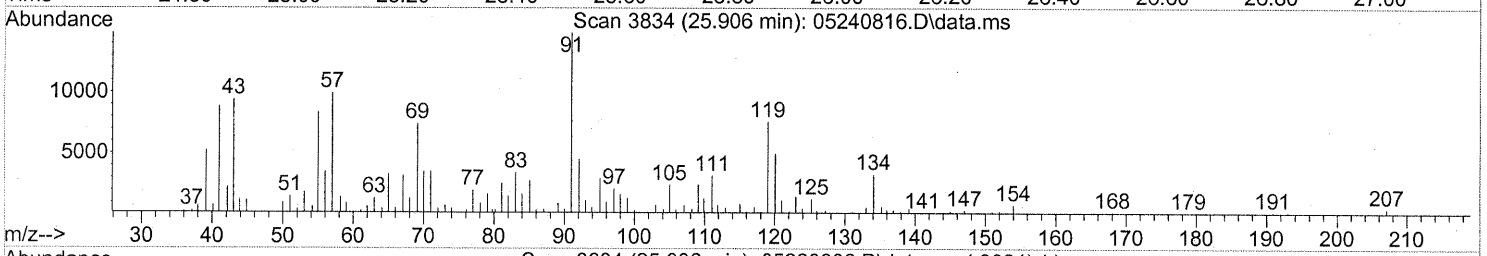
DA 5/29/08

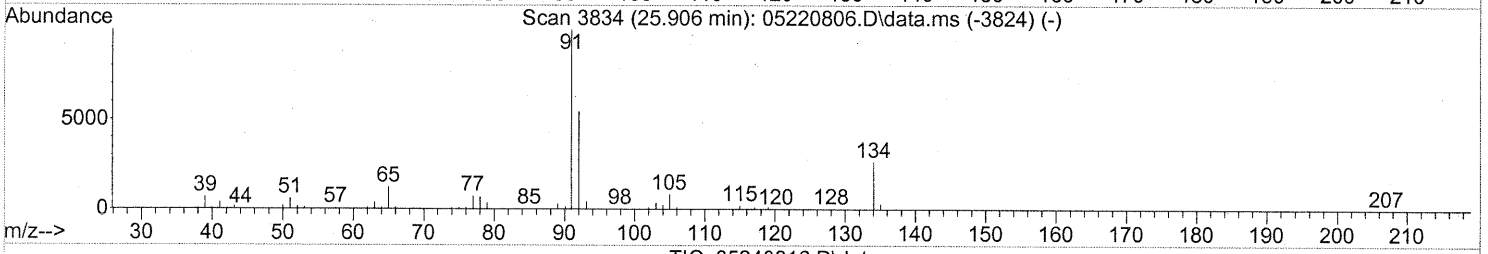
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240816.D
Acq On : 24 May 2008 17:25
Operator : WA
Sample : P0801442-007 (1000ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 25 20:36:59 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration







TIC: 05240816.D\data.ms

(8) n-Butylbenzene

25.906min (-0.011) 0.28ng

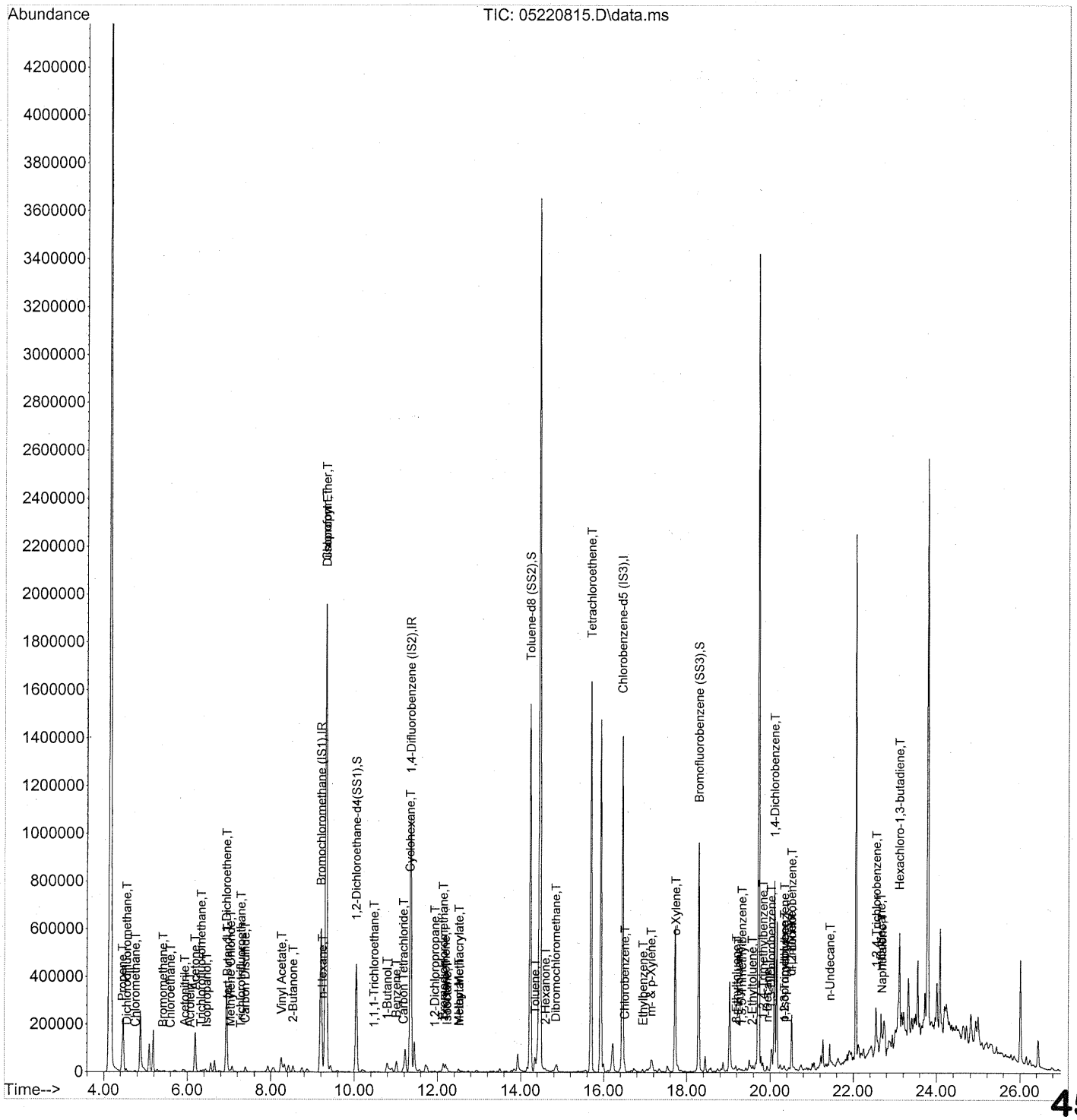
response 42622

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	28.15#
134.00	28.80	42.81#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220815.D
Acq On : 22 May 2008 17:55
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220815.D
Acq On : 22 May 2008 17:55
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.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	291546	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1227593	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	479960	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	426457	20.743	ng		-0.05
Spiked Amount 25.000			Recovery =	82.96%			
57) Toluene-d8 (SS2)	14.23	98	1230308	26.034	ng		-0.02
Spiked Amount 25.000			Recovery =	104.12%			
73) Bromofluorobenzene (SS3)	18.29	174	344926	28.044	ng		0.00
Spiked Amount 25.000			Recovery =	112.16%			
Target Compounds							Qvalue
2) Propene	4.44	42	64278	2.205	ng	#	39
3) Dichlorodifluoromethane	4.55	85	10409	0.302	ng		97
4) Chloromethane	4.75	50	3643	0.085	ng		92
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	799	N.D.			
8) Bromomethane	5.42	94	1369	0.113	ng		89
9) Chloroethane	5.59	64	1223	0.091	ng	#	43
10) Ethanol	5.81	45	697	N.D.			
11) Acetonitrile	5.93	41	12855	0.247	ng		89
12) Acrolein	6.06	56	3638	0.255	ng		84
13) Acetone	6.18	58	48386	2.512	ng		93
14) Trichlorofluoromethane	6.32	101	6967	0.244	ng		97
15) Isopropanol	6.46	45	8595	0.138	ng	#	57
16) Acrylonitrile	6.66	53	220	N.D.			
17) 1,1-Dichloroethene	6.93	96	155410	11.136	ng		91
18) tert-Butanol	6.96	59	31591	0.556	ng		94
19) Methylene Chloride	7.03	84	1623	0.107	ng	#	3
20) Allyl Chloride	7.22	41	101	N.D.			
21) Trichlorotrifluoroethane	7.28	151	920	0.077	ng	#	79
22) Carbon Disulfide	7.39	76	35831	0.624	ng		99
23) trans-1,2-Dichloroethene	7.96	61	96	N.D.			
24) 1,1-Dichloroethane	8.17	63	1422	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	8.25	86	10703	2.739	ng	#	27
27) 2-Butanone	8.53	72	6862	0.691	ng	#	10
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	224295	17.758	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.23	57	14486	0.349	ng		90

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220815.D
Acq On : 22 May 2008 17:55
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.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	2040037	93.838 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	10.47	97	1484	0.063 ng		95
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.79	56	47126	2.026 ng	#	72
41) Benzene	11.01	78	46672	0.776 ng		98
42) Carbon Tetrachloride	11.18	117	14452	0.811 ng		100
43) Cyclohexane	11.33	84	4768	0.200 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	11.93	63	2673	0.143 ng		91
46) Bromodichloromethane	12.14	83	29955	1.675 ng		95
47) Trichloroethene	12.19	130	15722	0.949 ng		97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.23	57	9614	0.096 ng	#	1
50) Methyl Methacrylate	12.52	100	478	0.080 ng	#	1
51) n-Heptane	12.52	71	2027	0.132 ng	#	43
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.17	58	452	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.01	97	699	N.D.		
58) Toluene	14.35	91	52955	0.915 ng		99
59) 2-Hexanone	14.59	43	10268	0.168 ng	#	61
60) Dibromochloromethane	14.85	129	2970	0.197 ng		94
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.37	43	520	N.D.		
63) n-Octane	15.47	57	647	N.D.		
64) Tetrachloroethene	15.69	166	622695	43.514 ng		99
65) Chlorobenzene	16.50	112	23344	0.609 ng		99
66) Ethylbenzene	16.94	91	10123	0.153 ng		89
67) m- & p-Xylene	17.14	91	41410	0.957 ng		91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.59	104	1402	N.D.		
70) o-Xylene	17.73	91	19666	0.426 ng		92
71) n-Nonane	17.97	43	1680	N.D.		
72) 1,1,2,2-Tetrachloroethane	17.79	83	91	N.D.		
74) Cumene	18.45	105	1124	N.D.		
75) alpha-Pinene	18.93	93	818	N.D.		
76) n-Propylbenzene	19.06	91	2323	N.D.		
77) 3-Ethyltoluene	19.19	105	7941	0.114 ng		95
78) 4-Ethyltoluene	19.24	105	3609	0.057 ng		89
79) 1,3,5-Trimethylbenzene	19.33	105	4243	0.076 ng		94

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220815.D
Acq On : 22 May 2008 17:55
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

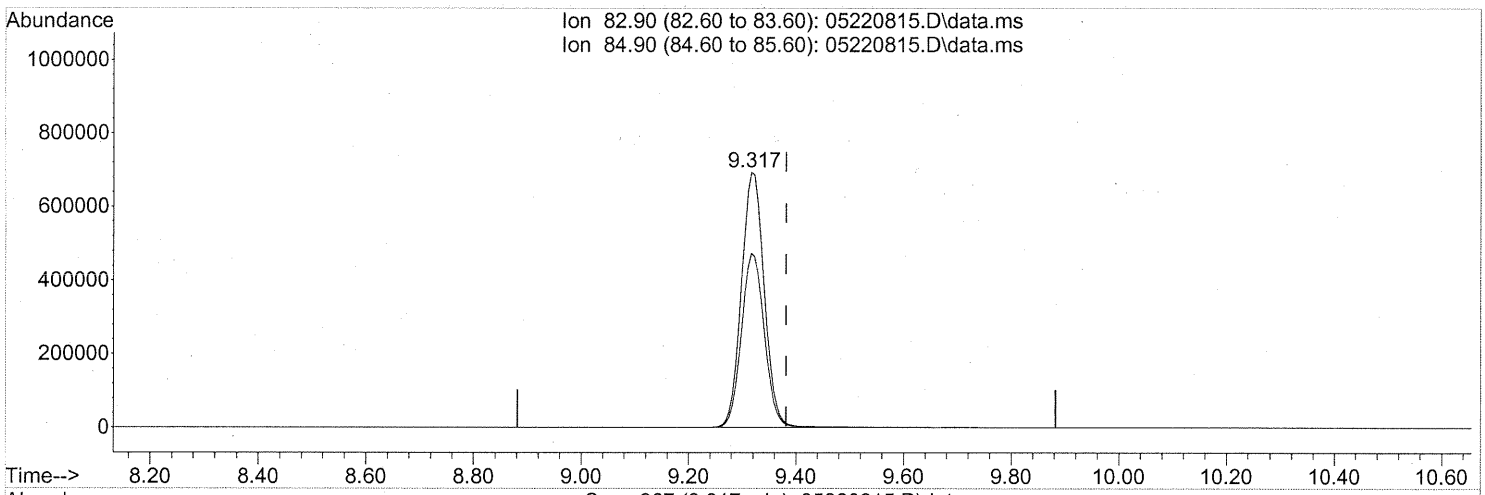
Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

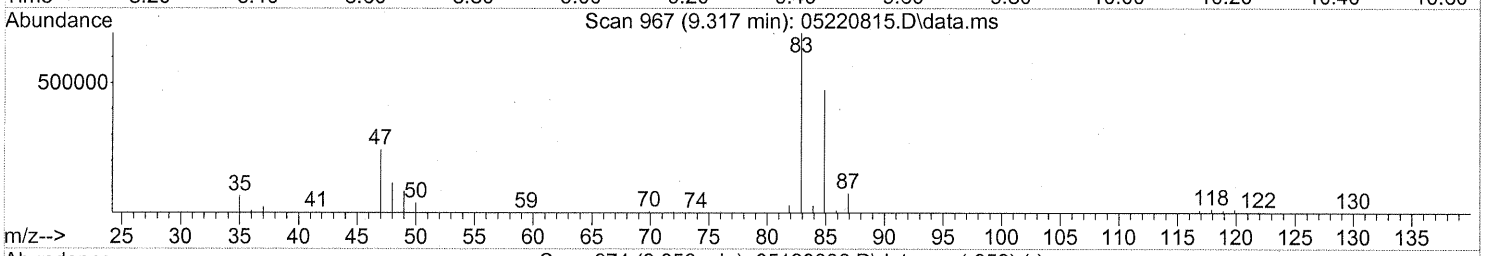
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	914	N.D.		
81) 2-Ethyltoluene	19.57	105	3942	0.057 ng		95
82) 1,2,4-Trimethylbenzene	19.83	105	14609	0.253 ng		98
83) n-Decane	19.93	57	8312	0.181 ng		91
84) Benzyl Chloride	19.99	91	903	N.D.		
85) 1,3-Dichlorobenzene	20.02	146	15042	0.448 ng		96
86) 1,4-Dichlorobenzene	20.10	146	368553	11.495 ng		99
87) sec-Butylbenzene	20.15	105	1338	N.D.		
88) p-Isopropyltoluene	20.34	119	5180	0.081 ng		96
89) 1,2,3-Trimethylbenzene	20.34	105	6107	0.108 ng		100
90) 1,2-Dichlorobenzene	20.52	146	100893	3.241 ng		100
91) d-Limonene	20.51	68	5163	0.247 ng	#	58
92) 1,2-Dibromo-3-Chloropr...	21.18	157	261	N.D.		
93) n-Undecane	21.43	57	48147	0.999 ng		82
94) 1,2,4-Trichlorobenzene	22.55	184	1821	0.336 ng		97
95) Naphthalene	22.69	128	19780	0.242 ng		94
96) n-Dodecane	22.66	57	65483	1.392 ng		76
97) Hexachloro-1,3-butadiene	23.11	225	78633	9.711 ng		100

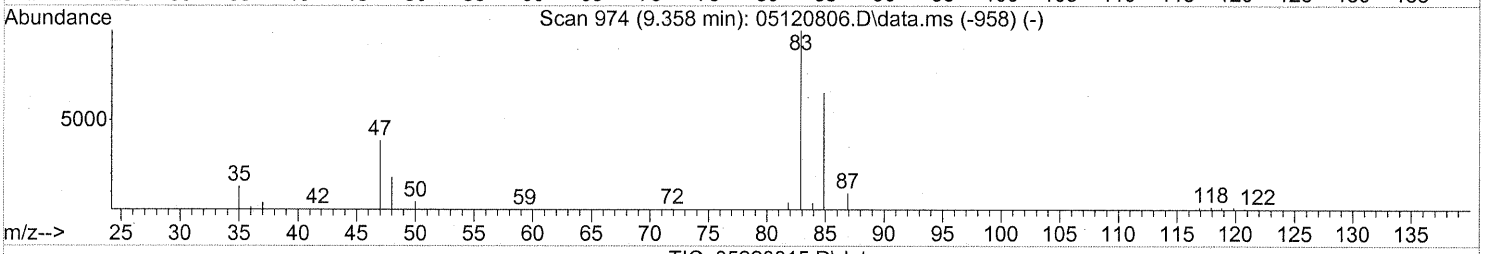
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220815.D
Acq On : 22 May 2008 17:55
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220815.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 93.84ng

response 2040037

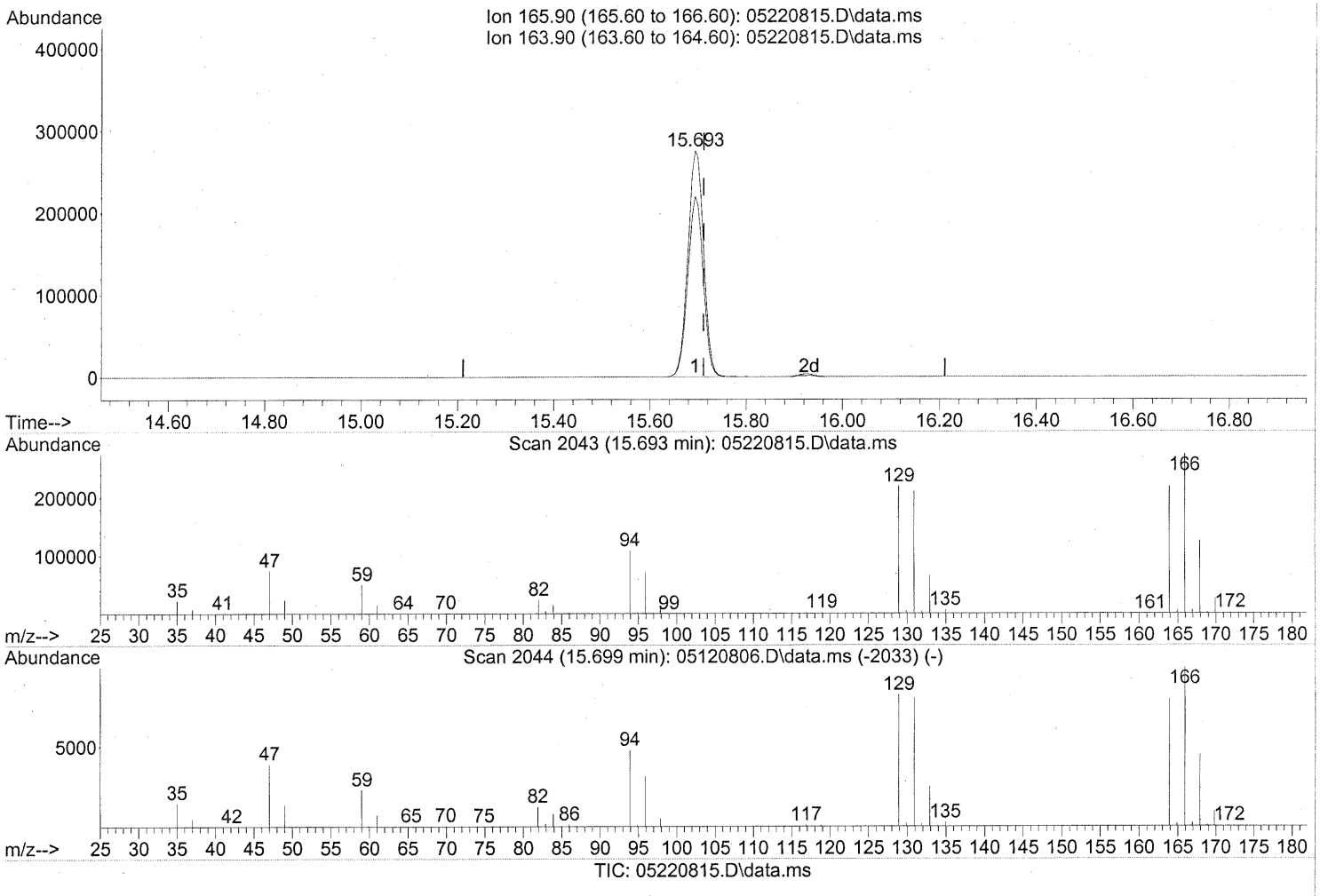
Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.34
0.00	0.00	0.00
0.00	0.00	0.00

455

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220815.D
Acq On : 22 May 2008 5:55 pm
Operator : WA
Sample : P0801442-007 Dil (250ml)
Misc : ENSR SG72B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 06:36:43 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220815.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 43.51ng

response 622695

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.46
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG70B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00072

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0012 Liter(s)

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

Canister Dilution Factor: 1.60

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	160	16	ND	32	3.2	
74-87-3	Chloromethane	ND	32	16	ND	16	7.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	13	6.3	
74-83-9	Bromomethane	ND	32	16	ND	8.2	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.1	
64-17-5	Ethanol	ND	1,600	16	ND	850	8.5	
67-64-1	**Acetone**	**190**	1,600	23	**81**	670	9.8	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.7	2.8	
107-13-1	Acrylonitrile	ND	160	22	ND	74	10	
75-35-4	**1,1-Dichloroethene**	**25**	32	16	**6.3**	8.1	4.0	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	53	7.8	
75-09-2	**Methylene Chloride**	**47**	160	16	**13**	46	4.6	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.1	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.2	2.3	
75-15-0	Carbon Disulfide	ND	160	38	ND	51	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.1	4.0	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	7.9	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.9	4.4	
108-05-4	Vinyl Acetate	ND	1,600	51	ND	450	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	54	5.4	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.1	4.0	
108-20-3	Diisopropyl Ether	ND	160	19	ND	38	4.5	
67-66-3	**Chloroform**	**130,000**	32	19	**26,000**	6.6	3.9	

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

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG70B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00072

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0012 Liter(s)

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

Canister Dilution Factor: 1.60

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	160	16	ND	38	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	7.9	4.0	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.9	2.9	
71-43-2	Benzene	ND	32	16	ND	10	5.0	
56-23-5	Carbon Tetrachloride	ND	32	16	ND	5.1	2.5	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	38	3.8	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	6.9	3.5	
75-27-4	**Bromodichloromethane**	**29**	32	16	**4.3**	4.8	2.4	**J**
79-01-6	**Trichloroethene**	**36**	32	16	**6.7**	6.0	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	44	5.4	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.9	
142-82-5	n-Heptane	ND	160	20	ND	39	5.0	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	35	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.4	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.4	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.9	2.9	
108-88-3	Toluene	ND	160	16	ND	42	4.2	
591-78-6	2-Hexanone	ND	160	24	ND	39	5.9	
124-48-1	Dibromochloromethane	ND	32	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.2	2.2	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**230**	32	16	**35**	4.7	2.4	
108-90-7	Chlorobenzene	ND	32	16	ND	7.0	3.5	

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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG70B-05** CAS Sample ID: P0801442-008
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/21/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.0050 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.0012 Liter(s)
Test Notes:
Container ID: SC00072

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

Canister Dilution Factor: 1.60

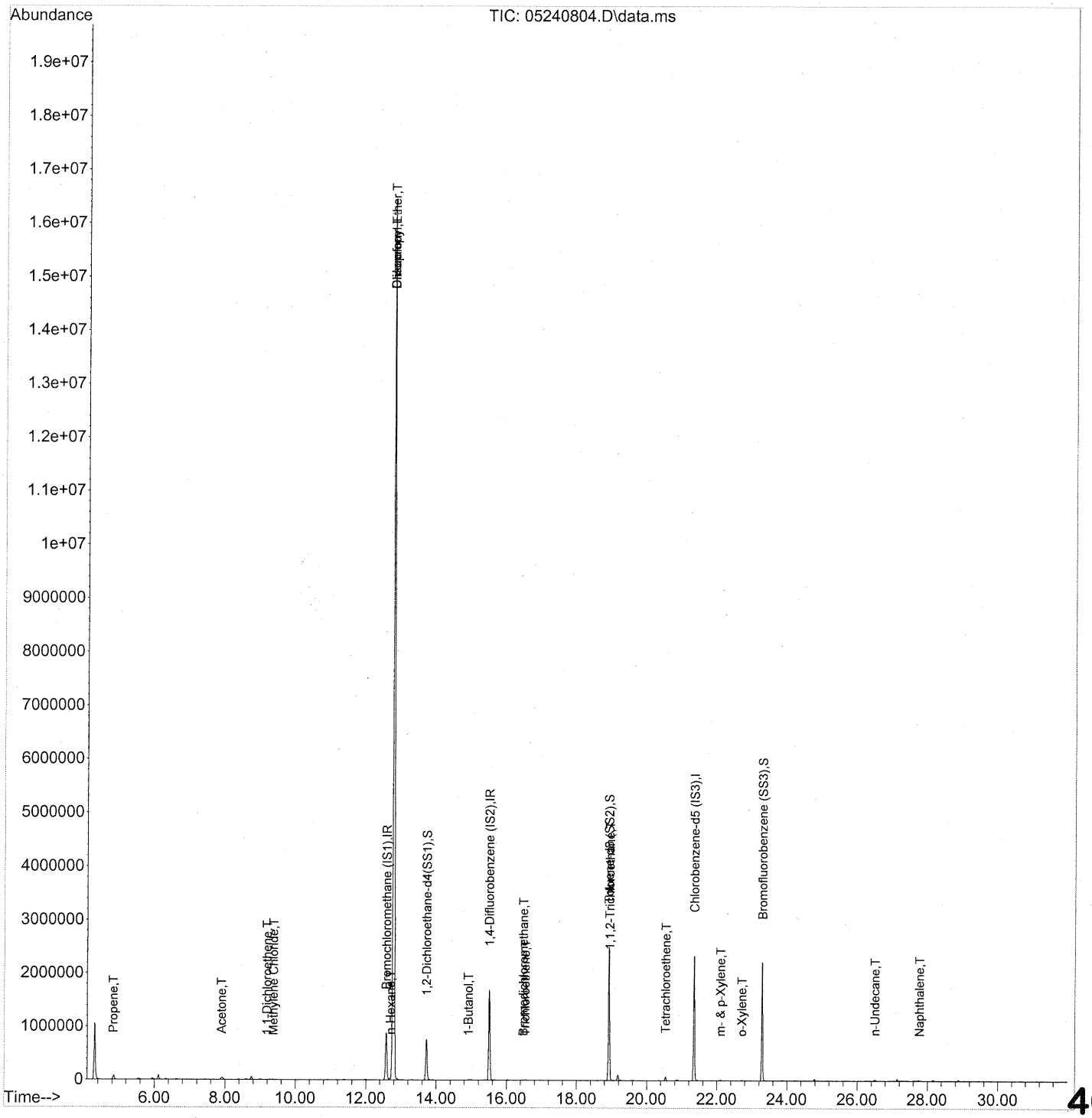
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	160	20	ND	37	4.6	
179601-23-1	m,p-Xylenes	ND	160	42	ND	37	9.6	
75-25-2	Bromoform	ND	160	24	ND	15	2.4	
100-42-5	Styrene	ND	160	24	ND	38	5.7	
95-47-6	o-Xylene	ND	160	20	ND	37	4.6	
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	20	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.6	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	18	ND	33	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	33	3.9	
98-83-9	alpha-Methylstyrene	ND	160	23	ND	33	4.8	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.5	
100-44-7	Benzyl Chloride	ND	32	28	ND	6.2	5.3	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.3	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.3	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	29	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.8	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.3	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	17	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.3	
91-20-3	**Naphthalene**	**27**	64	24	**5.2**	12	4.5	**J**
87-68-3	Hexachlorobutadiene	ND	32	29	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	64	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	64	16	ND	12	2.9	

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.

Verified By: RC Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	463631	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1946379	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	904087	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	765974	23.844	ng		0.00
Spiked Amount 25.000			Recovery =	95.36%			
57) Toluene-d8 (SS2)	18.92	98	2057837	25.344	ng		0.00
Spiked Amount 25.000			Recovery =	101.36%			
73) Bromofluorobenzene (SS3)	23.29	174	825240	24.993	ng		0.00
Spiked Amount 25.000			Recovery =	99.96%			
Target Compounds							Qvalue
2) Propene	4.83	42	19843	0.542	ng	#	23
3) Dichlorodifluoromethane	4.94	85	129	N.D.			
4) Chloromethane	5.32	50	109	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	5.77	62	55	N.D.			
7) 1,3-Butadiene	6.04	54	72	N.D.			
8) Bromomethane	6.51	94	178	N.D.			
9) Chloroethane	6.84	64	66	N.D.			
10) Ethanol	7.11	45	272	N.D.			
11) Acetonitrile	7.42	41	564	N.D.			
12) Acrolein	7.70	56	533	N.D.			
13) Acetone	7.90	58	15045	0.603	ng	#	10
14) Trichlorofluoromethane	8.16	101	383	N.D.			
15) Isopropanol	8.37	45	539	N.D.			
16) Acrylonitrile	8.61	53	1003	N.D.			
17) 1,1-Dichloroethene	9.19	96	1993	0.078	ng	#	1
18) tert-Butanol	9.31	59	256	N.D.			
19) Methylene Chloride	9.37	84	4062	0.146	ng		87
20) Allyl Chloride	9.45	41	1168	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	9.78	76	3329	N.D.			
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	11.11	63	108	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.38	86	62	N.D.			
27) 2-Butanone	11.72	72	181	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.78	87	1968372	~~88.185~~ ng NR		#	1
30) Ethyl Acetate	12.76	61	69	N.D.			
31) n-Hexane	12.70	57	14457	0.291	ng	#	71

5/27/08

Quantitation Report (QT Reviewed)

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ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	17108405	~~404.670 ng~~ sat dil		96
34) Tetrahydrofuran	13.43	72	72	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.90	62	481	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	1332	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	2547	0.095 ng	#	26
41) Benzene	14.99	78	4079	N.D. ✓		
42) Carbon Tetrachloride	15.20	117	747	N.D. ✓		
43) Cyclohexane	15.39	84	151	N.D.		
44) tert-Amyl Methyl Ether	15.58	73	62	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	350	N.D. ✓		
46) Bromodichloromethane	16.48	83	3107	0.090 ng		88
47) Trichloroethene	16.53	130	3505	0.112 ng		90
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	16.61	57	286	N.D.		
50) Methyl Methacrylate	16.97	100	84	N.D. ✓		
51) n-Heptane	16.98	71	661	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.80	58	651	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	180727	~~7.176 ng~~ NR	#	8
58) Toluene	19.05	91	4402	N.D. ✓		
59) 2-Hexanone	19.38	43	1883	N.D. ✓		
60) Dibromochloromethane	19.60	129	1159	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.21	43	249	N.D.		
63) n-Octane	20.35	57	263	N.D. ✓		
64) Tetrachloroethene	20.55	166	23984	0.734 ng		91
65) Chlorobenzene	21.41	112	1674	N.D. ✓		
66) Ethylbenzene	21.89	91	3145	N.D. ✓		
67) m- & p-Xylene	22.10	91	10484	~~0.124 ng~~		90
68) Bromoform	22.21	173	819	N.D. ✓		
69) Styrene	22.60	104	500	N.D. ✓		
70) o-Xylene	22.72	91	5656	~~0.062 ng~~		81
71) n-Nonane	22.97	43	1895	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.70	83	217	N.D. ✓		
74) Cumene	23.45	105	838	N.D. ✓		
75) alpha-Pinene	23.97	93	638	N.D.		
76) n-Propylbenzene	24.10	91	1703	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	4411	N.D.		
78) 4-Ethyltoluene	24.27	105	3069	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.38	105	2382	N.D. ✓		

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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	198	N.D. ✓	
81) 2-Ethyltoluene	24.63	105	3204	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	4425	N.D. ✓	
83) n-Decane	24.97	57	1523	N.D.	
84) Benzyl Chloride	25.06	91	3062	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	1600	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	3158	N.D. ✓	
87) sec-Butylbenzene	25.22	105	1282	N.D. ✓	
88) p-Isopropyltoluene	25.41	119	1874	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.40	105	3122	N.D.	
90) 1,2-Dichlorobenzene	25.58	146	1250	N.D. ✓	
91) d-Limonene	25.58	68	509	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.12	157	274	N.D. ✓	
93) n-Undecane	26.50	57	8902	0.139 ng	76
94) 1,2,4-Trichlorobenzene	27.63	180	1924	N.D. ✓	
95) Naphthalene	27.78	128	12468	0.085 ng	83
96) n-Dodecane	27.74	57	2882	N.D.	
97) Hexachloro-1,3-butadiene	28.19	225	1159	N.D. ✓	

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

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5/27/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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Acq On : 24 May 2008 9:04
Operator : WA
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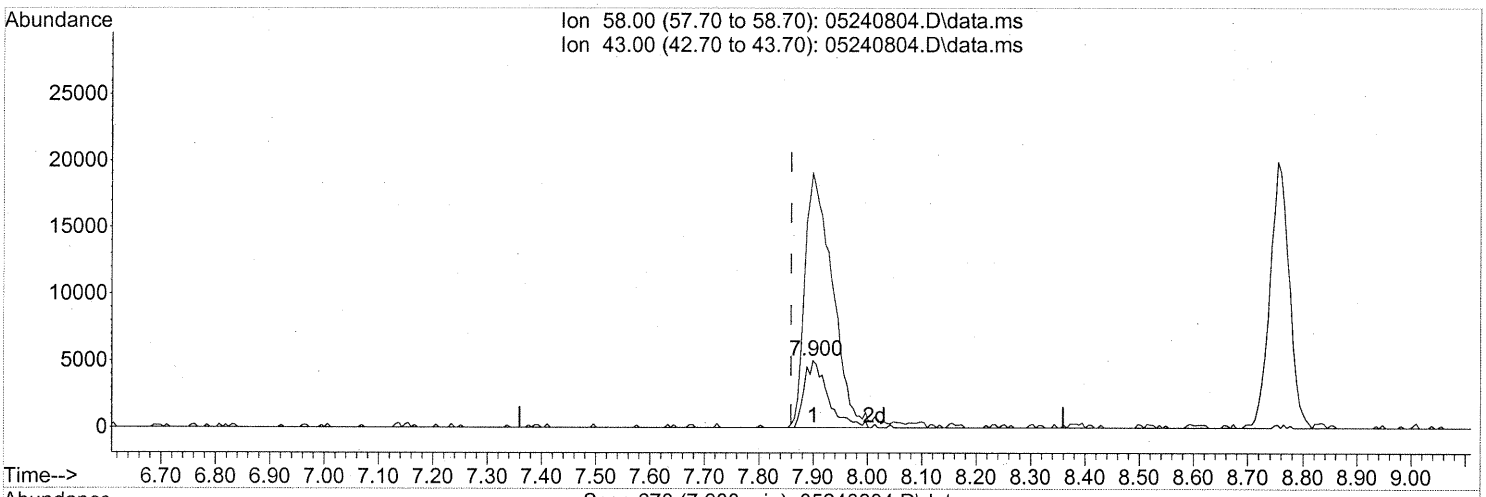
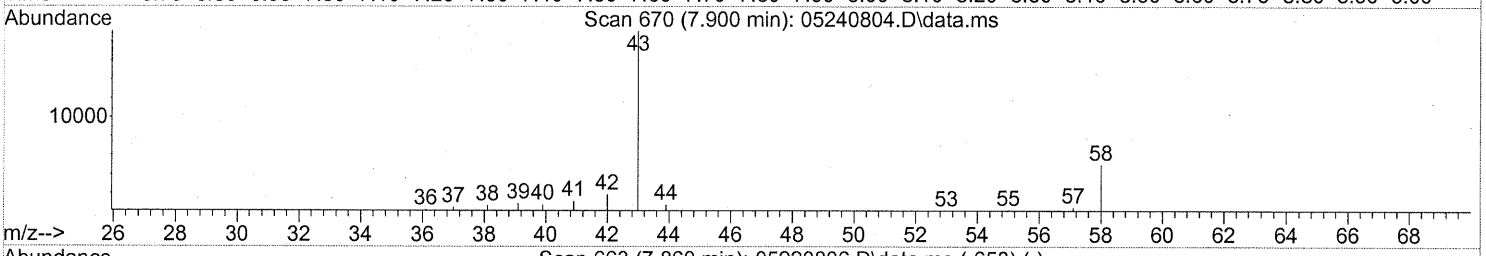
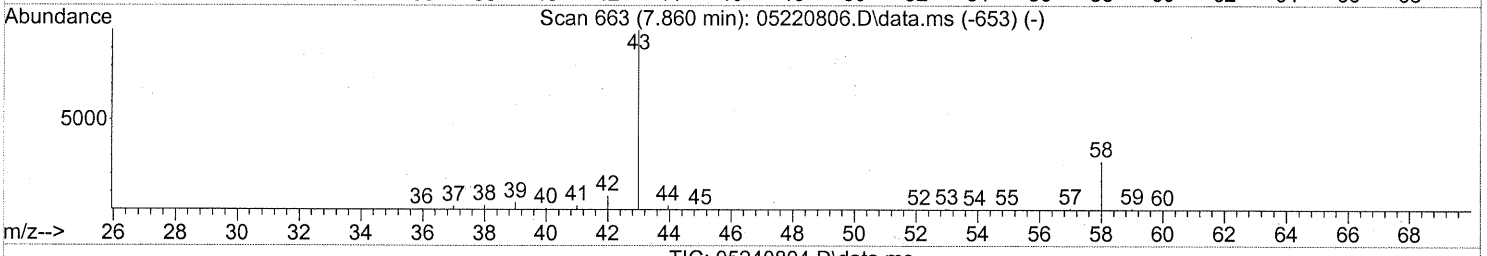
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240804.D\data.ms

(13) Acetone (T)

7.900min (+0.040) 0.60ng

response 15045

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	452.56#
0.00	0.00	0.00
0.00	0.00	0.00

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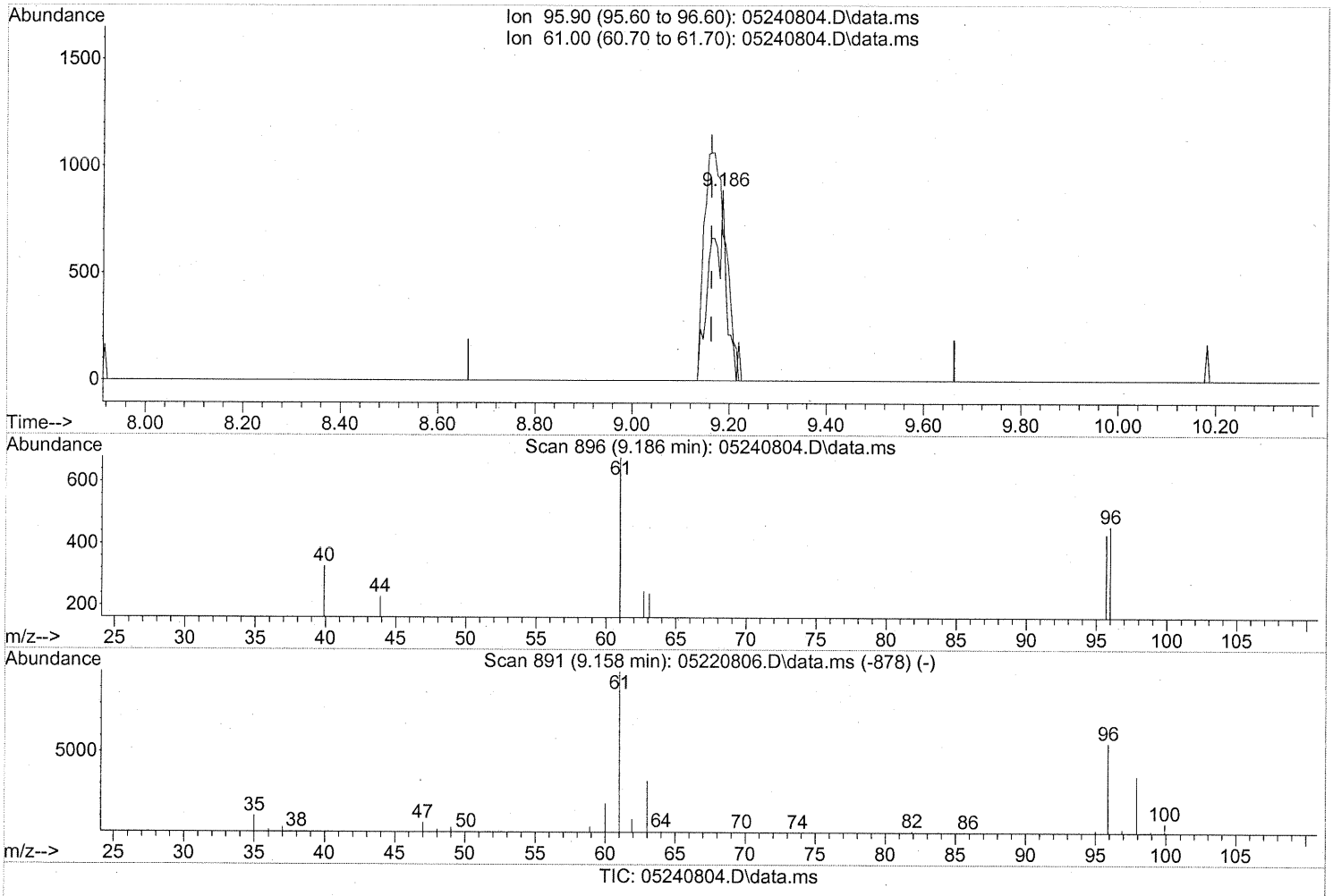
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240804.D\data.ms

(17) 1,1-Dichloroethene (T)

9.186min (+0.023) 0.08ng

response 1993

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

Quantitation Report (Qedit)

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Misc : ENSR SG70B-05 (-3.3, 3.5)
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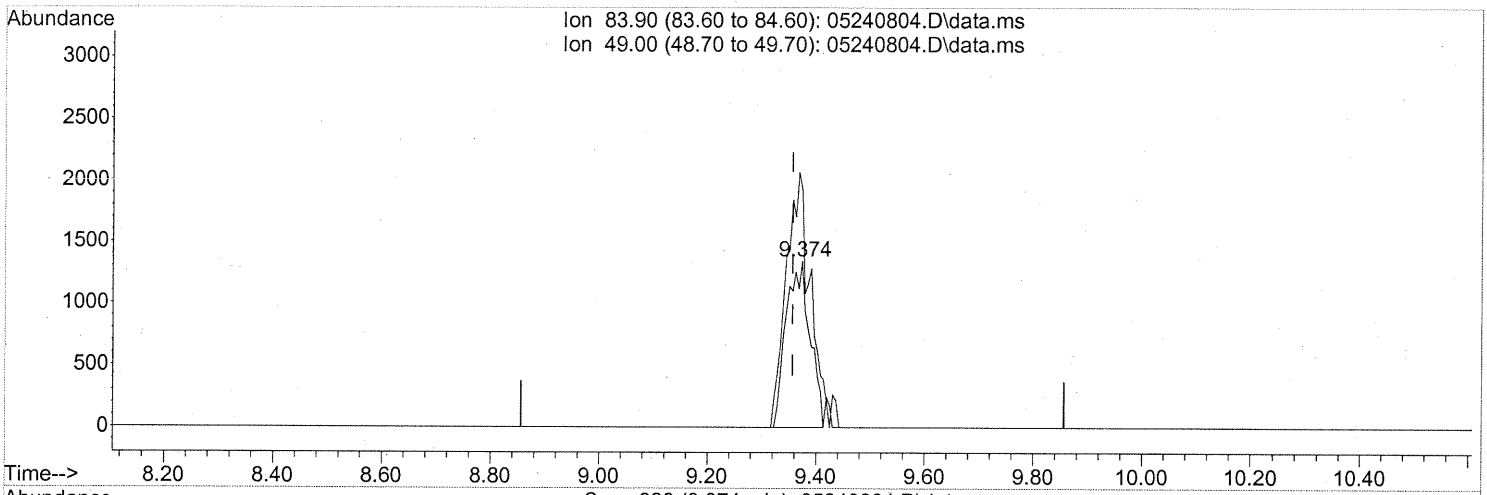
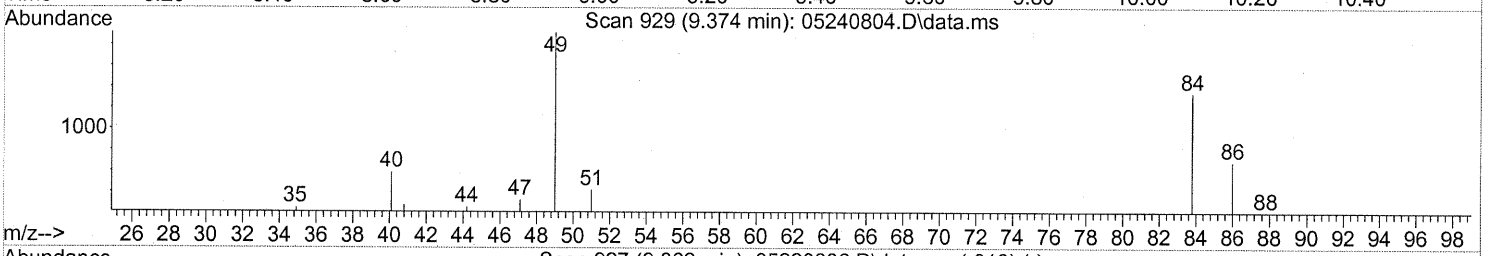
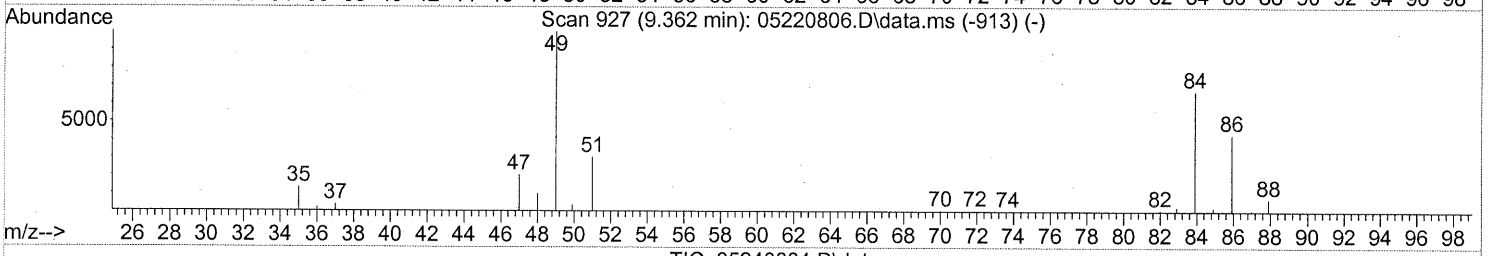
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240804.D\data.ms

(19) Methylene Chloride (T)

9.374min (+0.017) 0.15ng

response 4062

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	155.56
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

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Acq On : 24 May 2008 9:04
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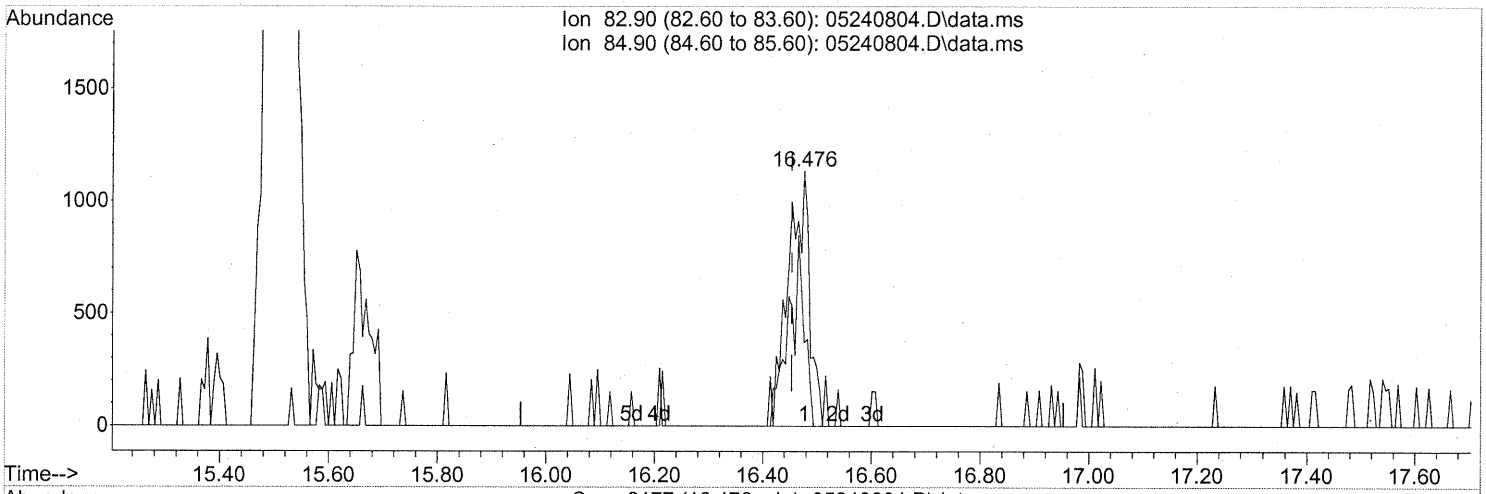
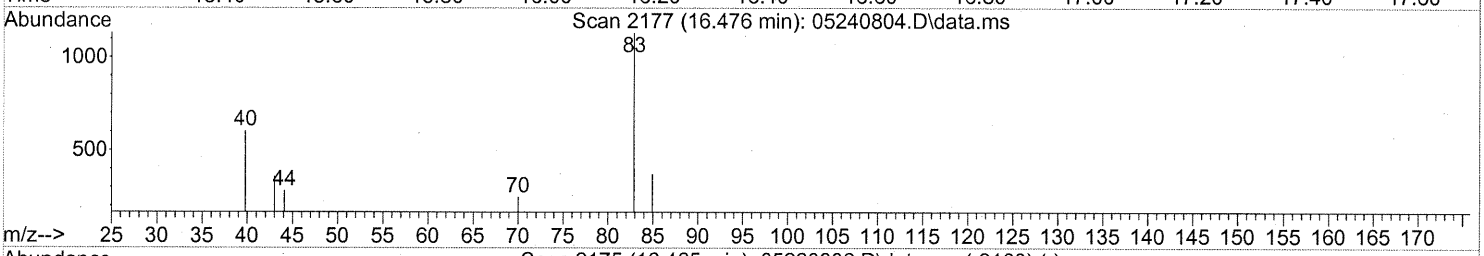
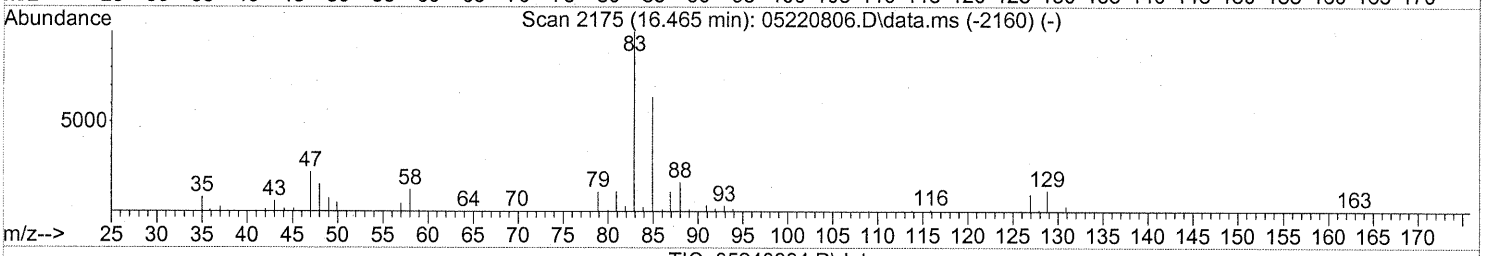
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240804.D\data.ms

(46) Bromodichloromethane (T)

16.476min (+0.023) 0.09ng

response 3107

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	54.17
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

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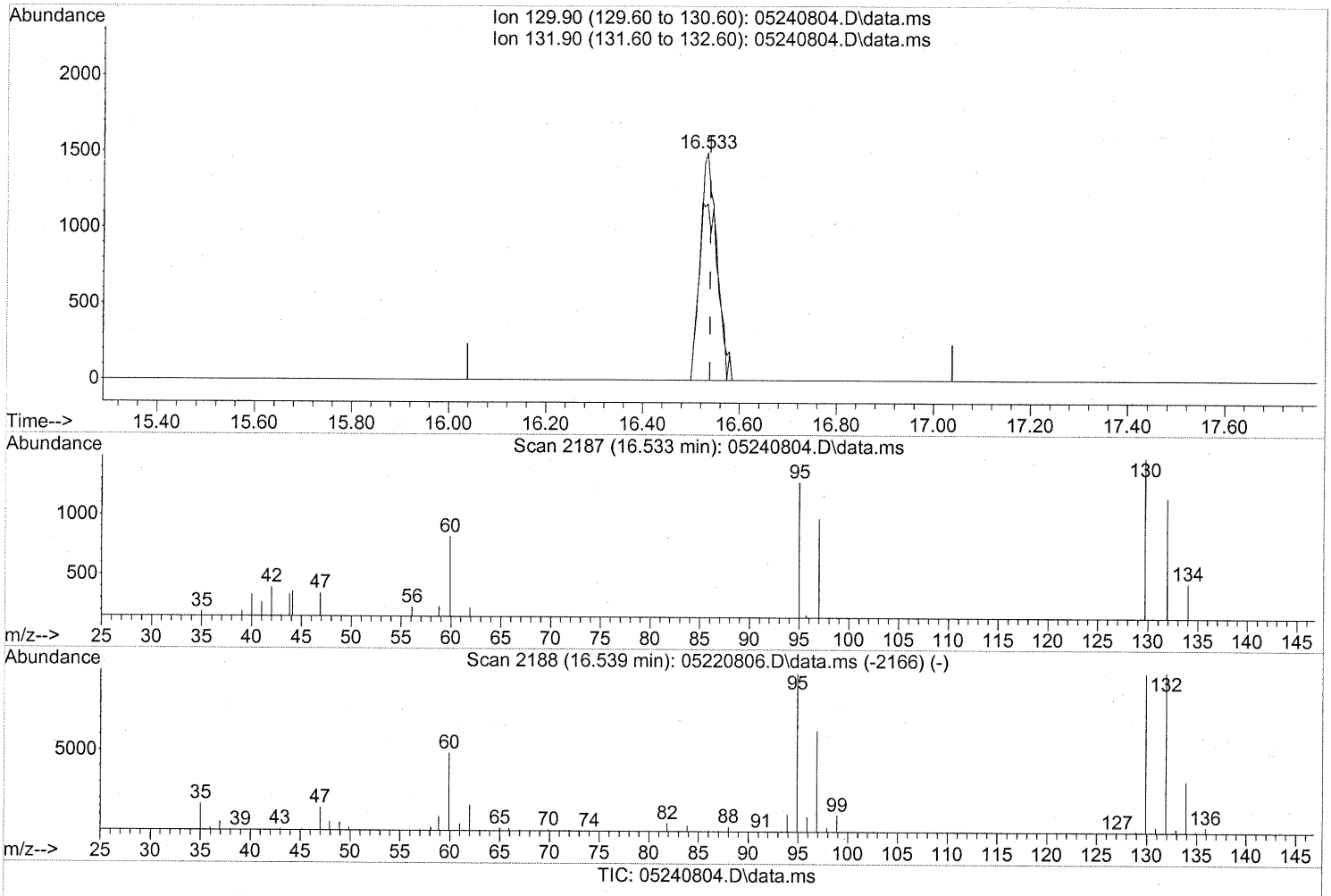
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240804.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.11ng

response 3505

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	91.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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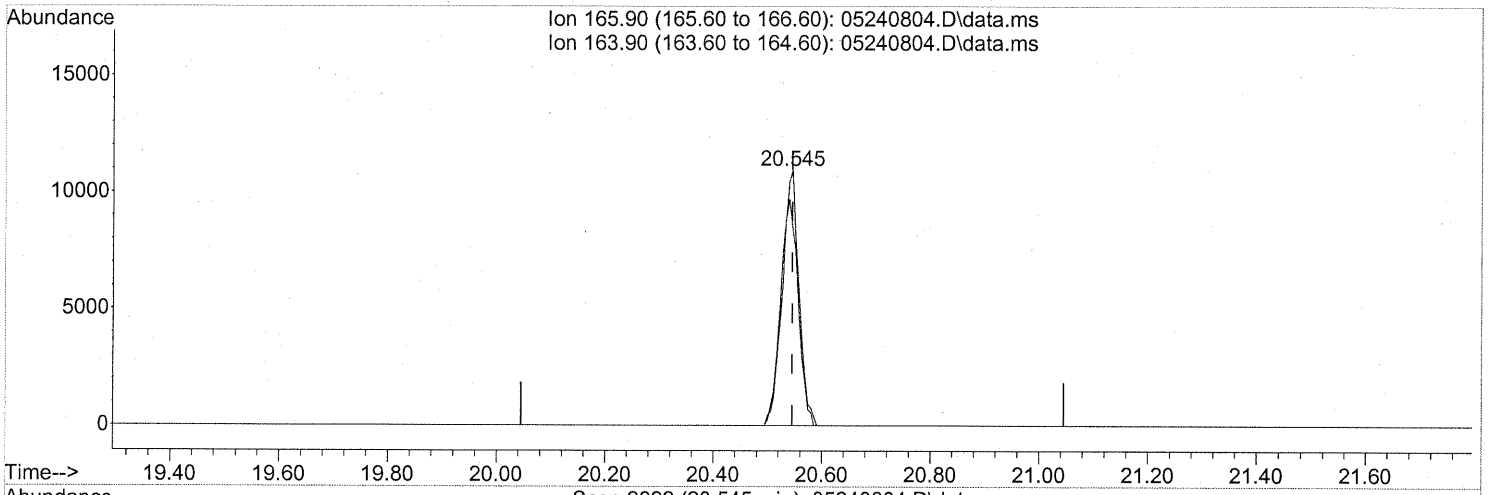
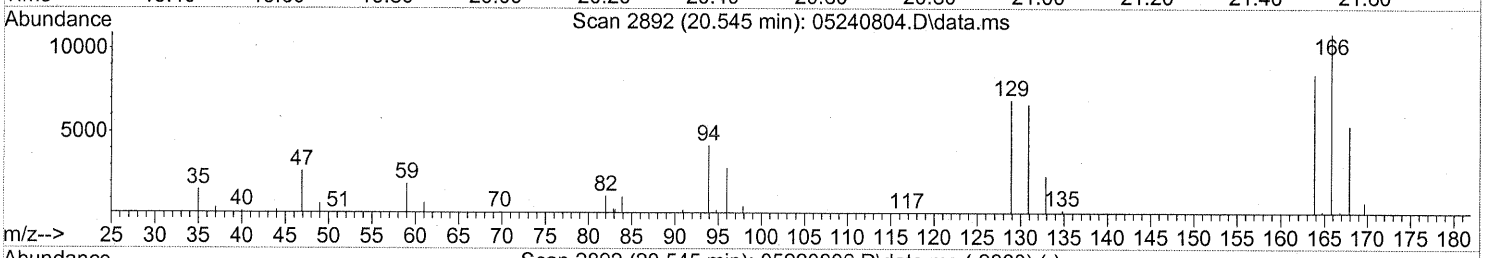
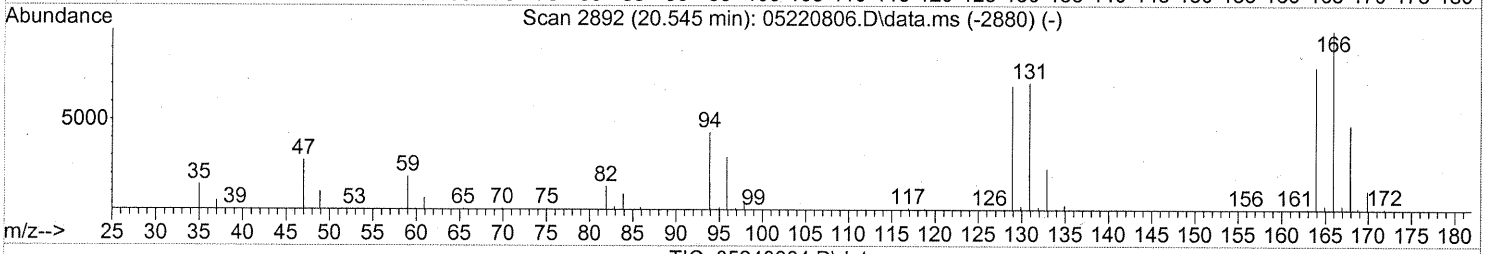
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240804.D\data.ms

(64) Tetrachloroethene (T)

20.545min (+0.000) 0.73ng

response 23984

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	86.46
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

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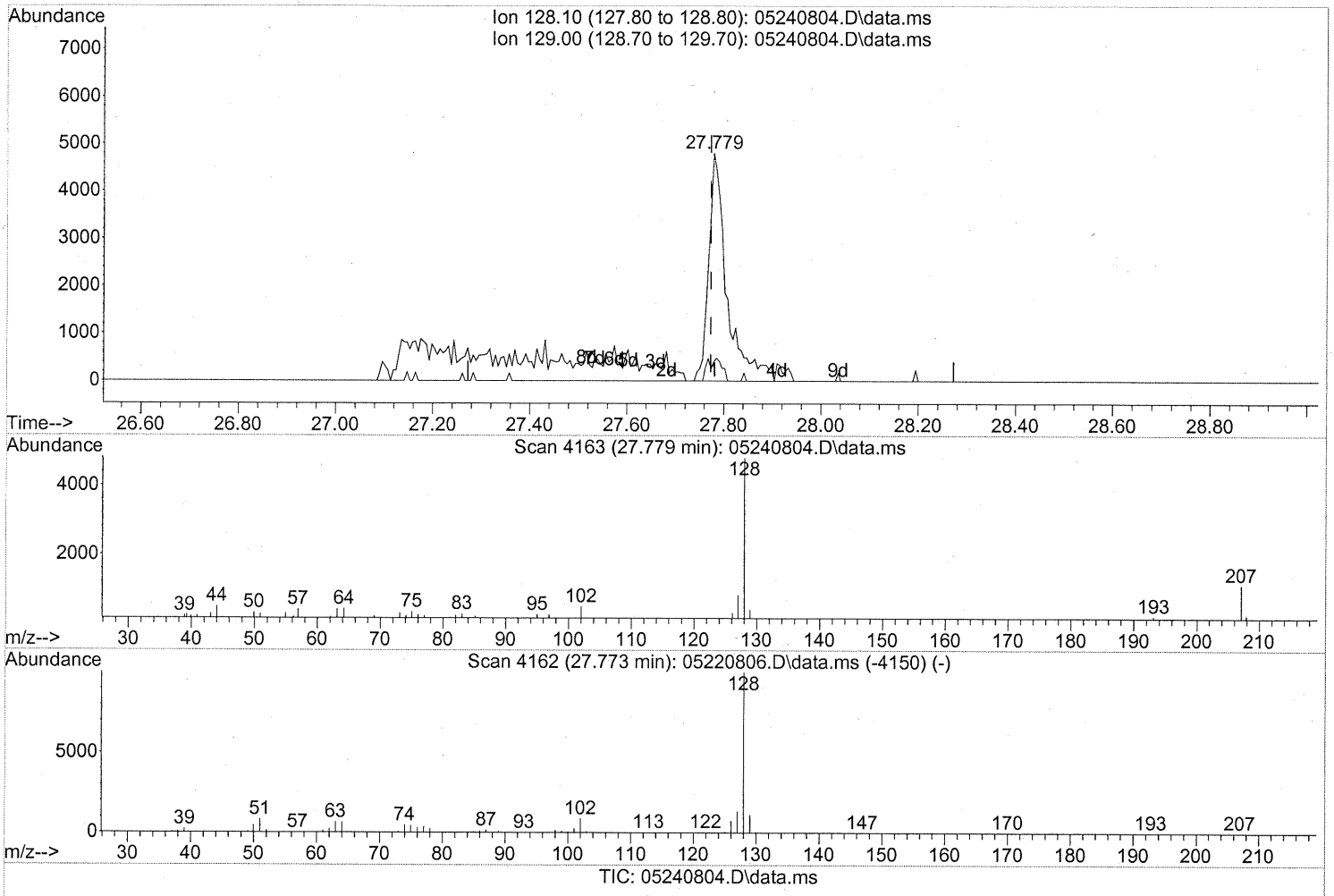
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:07:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240804.D\data.ms

(95) Naphthalene (T)

27.779min (+0.006) 0.09ng

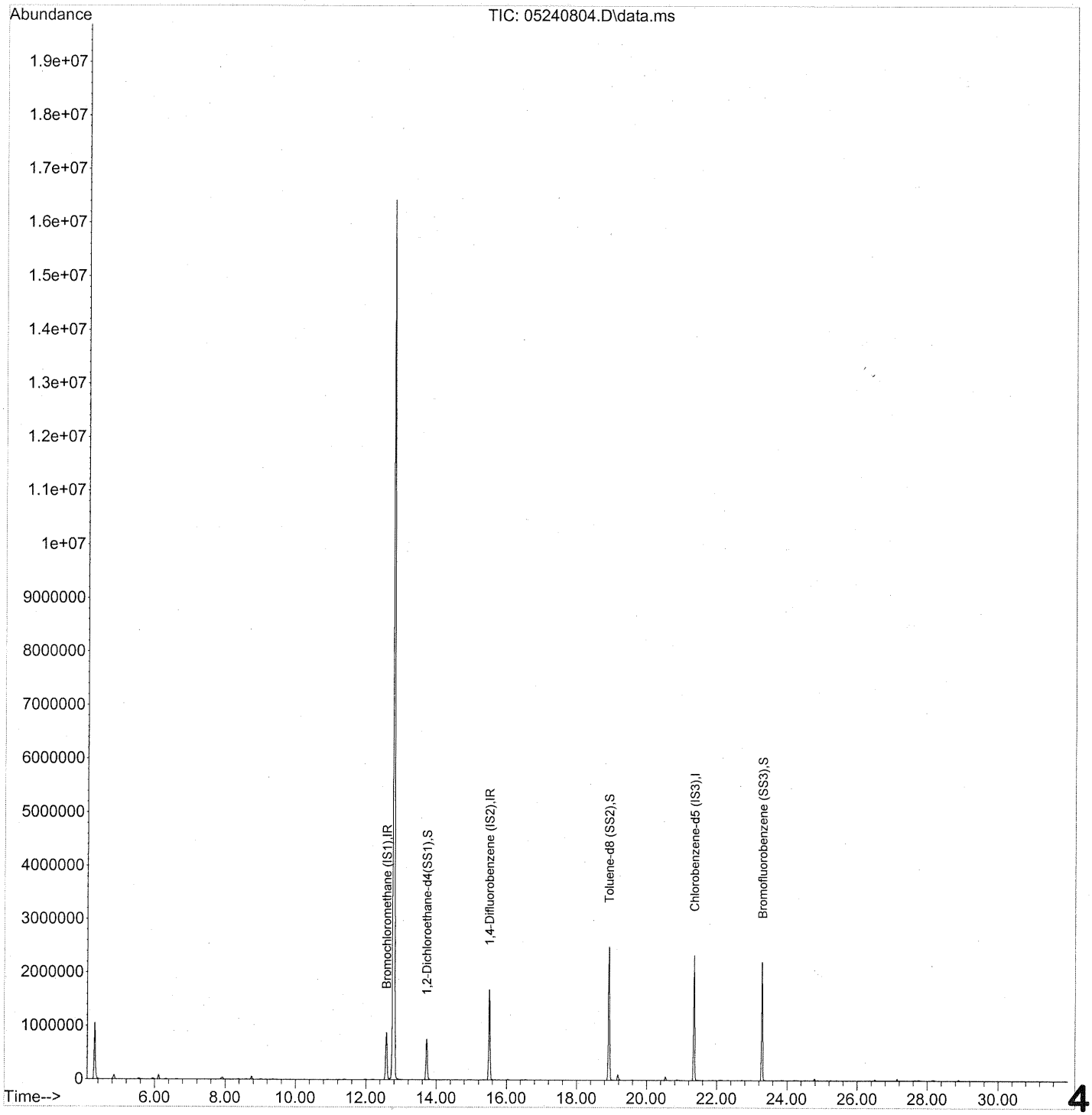
response 12468

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	4.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:03 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240804.D
Acq On : 24 May 2008 9:04
Operator : WA
Sample : P0801442-008 (5.0ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:03 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

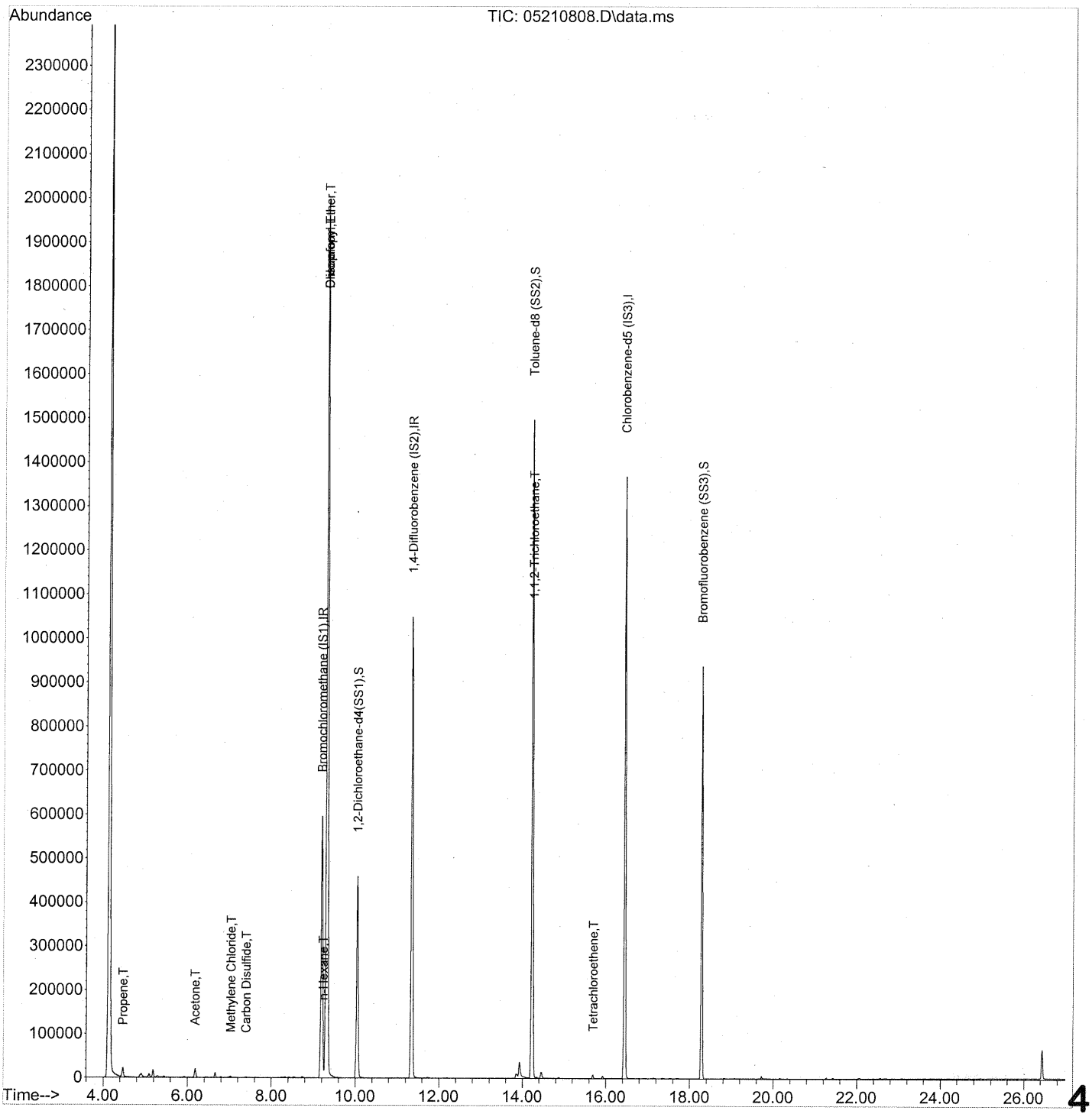
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	463631	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1946379	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	904087	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	765974	23.844	ng	-0.03
Spiked Amount 25.000			Recovery =	95.36%		
5) Toluene-d8 (SS2)	18.92	98	2057837	25.344	ng	-0.02
Spiked Amount 25.000			Recovery =	101.36%		
6) Bromofluorobenzene (SS3)	23.29	174	825240	24.993	ng	0.00
Spiked Amount 25.000			Recovery =	99.96%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.94	119	394	N.D.		
8) n-Butylbenzene	25.92	91	512	N.D.		

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

DM 5/29/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210808.D
Acq On : 21 May 2008 12:42
Operator : WA
Sample : P0801442-008 Dil (1.2ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 13:15:34 2008
Quant Method : J:\MS16\METHODS\R16051208.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\21\
Data File : 05210808.D
Acq On : 21 May 2008 12:42
Operator : WA
Sample : P0801442-008 Dil (1.2ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 13:15:34 2008
Quant Method : J:\MS16\METHODS\R16051208.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	278945m	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1159225	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	454144	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	423379	21.523	ng		-0.05
Spiked Amount 25.000			Recovery = 86.08%				
57) Toluene-d8 (SS2)	14.23	98	1180998	26.411	ng		-0.02
Spiked Amount 25.000			Recovery = 105.64%				
73) Bromofluorobenzene (SS3)	18.28	174	325410	27.962	ng		-0.01
Spiked Amount 25.000			Recovery = 111.84%				
Target Compounds							Qvalue
2) Propene	4.46	42	4096	0.147	ng	#	52
3) Dichlorodifluoromethane	0.00	85	0	N.D.			
4) Chloromethane	4.74	50	101	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	122	N.D.			
11) Acetonitrile	5.94	41	2244	N.D.			
12) Acrolein	6.07	56	214	N.D.			
13) Acetone	6.18	58	7707	0.418	ng		92
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	6.43	45	111	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	111	N.D.			
19) Methylene Chloride	7.03	84	875	0.060	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	2849	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	8.53	72	102	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	214886	17.781	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.23	57	2243	0.057	ng	#	65

5/26/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210808.D
Acq On : 21 May 2008 12:42
Operator : WA
Sample : P0801442-008 Dil (1.2ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 13:15:34 2008
Quant Method : J:\MS16\METHODS\R16051208.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	1982068	95.290	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	1041	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	11.33	84	215	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	186	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	277	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	100805	7.309	ng	#	7
58) Toluene	14.35	91	1004	N.D.			
59) 2-Hexanone	14.59	43	886	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	0.00	43	0	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.70	166	3150	0.233	ng		98
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	415	N.D.			
67) m- & p-Xylene	17.14	91	1686	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	611	N.D.			
71) n-Nonane	17.96	43	91	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.44	105	120	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	19.07	91	116	N.D.			
77) 3-Ethyltoluene	19.20	105	546	N.D.			
78) 4-Ethyltoluene	19.24	105	301	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	107	N.D.			

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5/26/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210808.D
Acq On : 21 May 2008 12:42
Operator : WA
Sample : P0801442-008 Dil (1.2ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 13:15:34 2008
Quant Method : J:\MS16\METHODS\R16051208.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

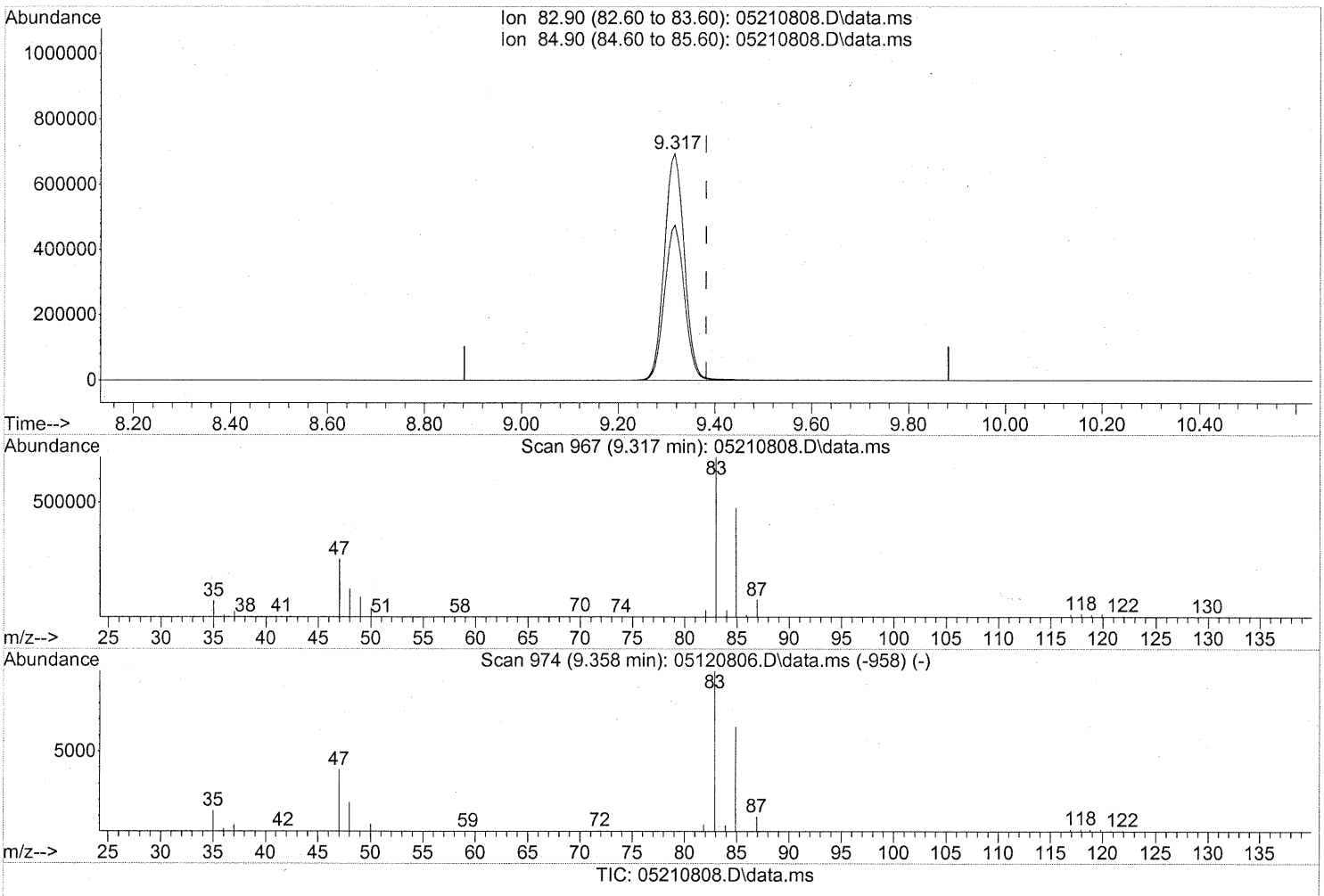
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.56	105	204	N.D.	
82) 1,2,4-Trimethylbenzene	19.83	105	515	N.D.	
83) n-Decane	20.17	57	866	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	20.10	146	101	N.D.	
86) 1,4-Dichlorobenzene	20.10	146	101	N.D.	
87) sec-Butylbenzene	20.36	105	450	N.D.	
88) p-Isopropyltoluene	20.34	119	215	N.D.	
89) 1,2,3-Trimethylbenzene	20.36	105	450	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	972	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	1364	N.D.	
96) n-Dodecane	22.66	57	366	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\21\
Data File : 05210808.D
Acq On : 21 May 2008 12:42
Operator : WA
Sample : P0801442-008 Dil (1.2ml)
Misc : ENSR SG70B-05 (-3.3, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 13:15:34 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210808.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 95.29ng

response 1982068

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG71B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00571

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

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	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	32	16	ND	16	7.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	13	6.3	
74-83-9	Bromomethane	ND	32	16	ND	8.3	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.1	
64-17-5	Ethanol	ND	1,600	16	ND	850	8.5	
67-64-1	**Acetone**	**65**	1,600	24	**27**	680	9.9	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.7	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	74	10	
75-35-4	1,1-Dichloroethene	ND	32	16	ND	8.1	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	53	7.9	
75-09-2	**Methylene Chloride**	**33**	160	16	**9.4**	46	4.6	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.1	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.2	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.1	4.1	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	8.0	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.9	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.1	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.5	
67-66-3	**Chloroform**	**120,000**	32	19	**24,000**	6.6	3.9	

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

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG71B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00571

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

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	160	16	ND	39	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	8.0	4.0	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.9	3.0	
71-43-2	Benzene	ND	32	16	ND	10	5.0	
56-23-5	Carbon Tetrachloride	ND	32	16	ND	5.1	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	7.0	3.5	
75-27-4	**Bromodichloromethane**	**140**	32	16	**22**	4.8	2.4	
79-01-6	Trichloroethene	ND	32	16	ND	6.0	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.9	
142-82-5	n-Heptane	ND	160	21	ND	39	5.0	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	35	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.4	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.5	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.9	3.0	
108-88-3	Toluene	ND	160	16	ND	43	4.3	
591-78-6	2-Hexanone	ND	160	24	ND	39	6.0	
124-48-1	**Dibromochloromethane**	**37**	32	22	**4.3**	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**170**	32	16	**25**	4.8	2.4	
108-90-7	Chlorobenzene	ND	32	16	ND	7.0	3.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG71B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00571

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/21/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

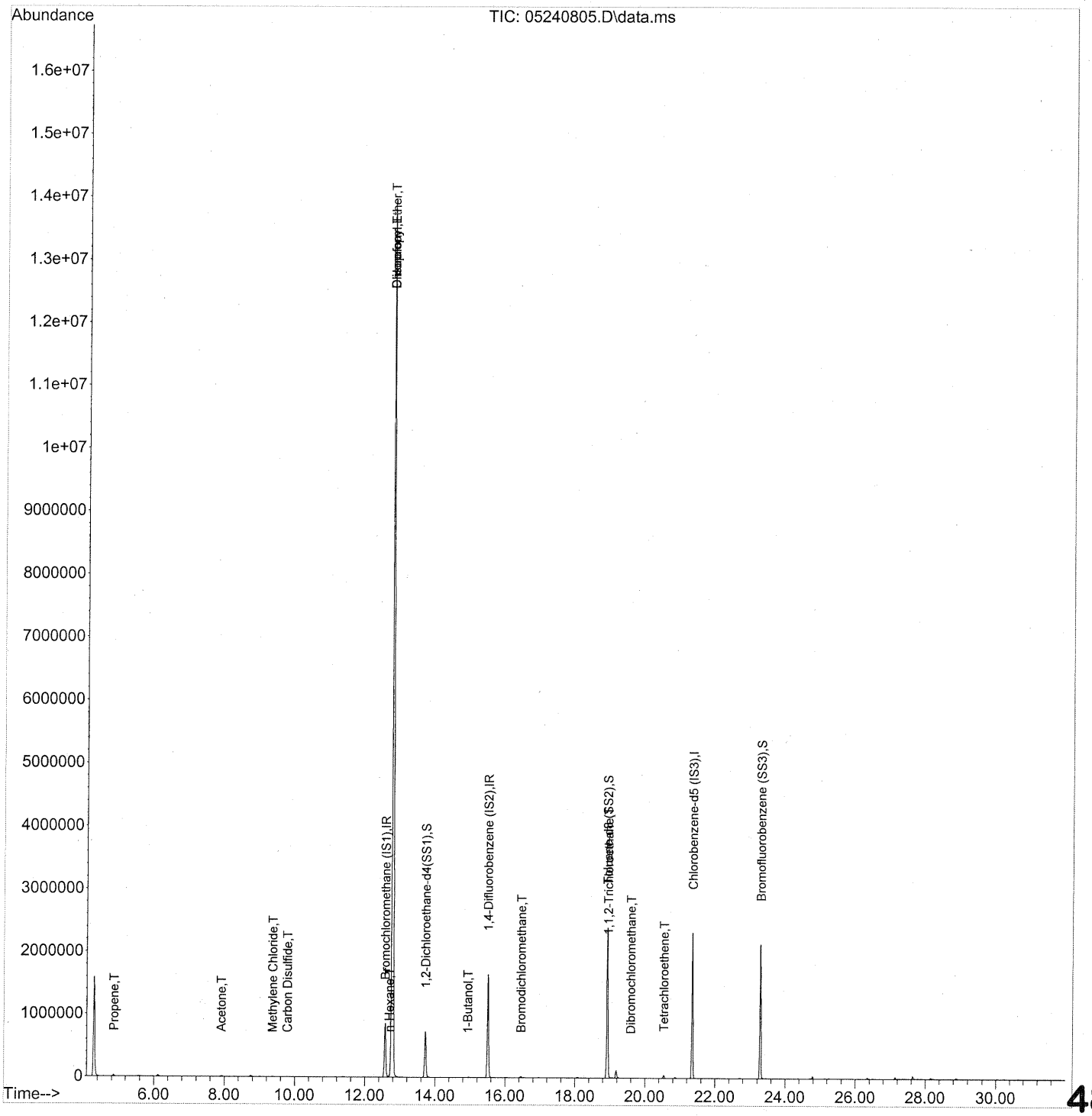
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	160	20	ND	37	4.6	
179601-23-1	m,p-Xylenes	ND	160	42	ND	37	9.6	
75-25-2	Bromoform	ND	160	24	ND	16	2.4	
100-42-5	Styrene	ND	160	24	ND	38	5.8	
95-47-6	o-Xylene	ND	160	20	ND	37	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	18	ND	33	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	33	3.9	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	33	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.5	
100-44-7	Benzyl Chloride	ND	32	28	ND	6.2	5.4	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.4	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	29	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.8	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.4	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	17	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.3	
91-20-3	Naphthalene	ND	64	24	ND	12	4.5	
87-68-3	Hexachlorobutadiene	ND	32	29	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	64	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	64	16	ND	12	2.9	

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.

Verified By: Rev Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	444409	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1882384	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	881998	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	738393	23.979	ng		0.00
Spiked Amount 25.000			Recovery =	95.92%			
57) Toluene-d8 (SS2)	18.92	98	1982731	25.031	ng		0.00
Spiked Amount 25.000			Recovery =	100.12%			
73) Bromofluorobenzene (SS3)	23.29	174	794629	24.669	ng		0.00
Spiked Amount 25.000			Recovery =	98.68%			
Target Compounds							Qvalue
2) Propene	4.86	42	3312	0.094	ng	#	1
3) Dichlorodifluoromethane	4.99	85	297	N.D.			
4) Chloromethane	0.00	50	0	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	0.00	54	0	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.13	45	251	N.D.			
11) Acetonitrile	7.47	41	1298	N.D.			
12) Acrolein	7.68	56	687	N.D.			
13) Acetone	7.91	58	4799	0.201	ng	#	18
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	8.38	45	121	N.D.			
16) Acrylonitrile	8.76	53	310	N.D.			
17) 1,1-Dichloroethene	9.16	96	145	N.D.			
18) tert-Butanol	9.39	59	122	N.D.			
19) Methylene Chloride	9.37	84	2698	0.101	ng	#	72
20) Allyl Chloride	9.49	41	124	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	9.78	76	7181	~~0.071 ng~~			79
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	11.10	63	190	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.33	86	57	N.D.			
27) 2-Butanone	11.73	72	53	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.78	87	1614298	~~75.450 ng~~ NR		#	1
30) Ethyl Acetate	12.75	61	53	N.D.			
31) n-Hexane	12.69	57	7957	0.167	ng	#	71

MM 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	12.78	83	14432750	~~356.147 ng~~ su dil	97
34) Tetrahydrofuran	0.00	72	0	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓	
36) 1,2-Dichloroethane	13.90	62	262	N.D. ✓	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.93	56	1297	0.050 ng	89
41) Benzene	14.98	78	4150	N.D. ✓	
42) Carbon Tetrachloride	15.20	117	541	N.D. ✓	
43) Cyclohexane	15.41	84	57	N.D.	
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓	
45) 1,2-Dichloropropane	16.19	63	106	N.D. ✓	
46) Bromodichloromethane	16.46	83	14985	0.450 ng	99
47) Trichloroethene	16.54	130	1476	N.D. ✓	
48) 1,4-Dioxane	0.00	88	0	N.D. ✓	
49) Isooctane	16.61	57	61	N.D.	
50) Methyl Methacrylate	16.99	100	371	N.D. ✓	
51) n-Heptane	16.98	71	1186	N.D. ✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D. ✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓	
55) 1,1,2-Trichloroethane	18.94	97	176545	~~7.249 ng~~ NR #	9
58) Toluene	19.07	91	4252	N.D. ✓	
59) 2-Hexanone	19.37	43	427	N.D. ✓	
60) Dibromochloromethane	19.59	129	3316	0.114 ng	91
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓	
62) Butyl Acetate	20.25	43	56	N.D.	
63) n-Octane	20.36	57	173	N.D. ✓	
64) Tetrachloroethene	20.54	166	16961	0.532 ng	90
65) Chlorobenzene	21.41	112	275	N.D. ✓	
66) Ethylbenzene	21.89	91	990	N.D. ✓	
67) m- & p-Xylene	22.10	91	1950	N.D. ✓	
68) Bromoform	0.00	173	0	N.D. ✓	
69) Styrene	22.59	104	120	N.D. ✓	
70) o-Xylene	22.72	91	1029	N.D. ✓	
71) n-Nonane	22.98	43	190	N.D.	
72) 1,1,2,2-Tetrachloroethane	22.68	83	60	N.D. ✓	
74) Cumene	23.45	105	379	N.D. ✓	
75) alpha-Pinene	23.97	93	396	N.D.	
76) n-Propylbenzene	24.10	91	649	N.D. ✓	
77) 3-Ethyltoluene	24.22	105	982	N.D.	
78) 4-Ethyltoluene	24.29	105	575	N.D. ✓	
79) 1,3,5-Trimethylbenzene	24.38	105	881	N.D. ✓	

JDH 5/27/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

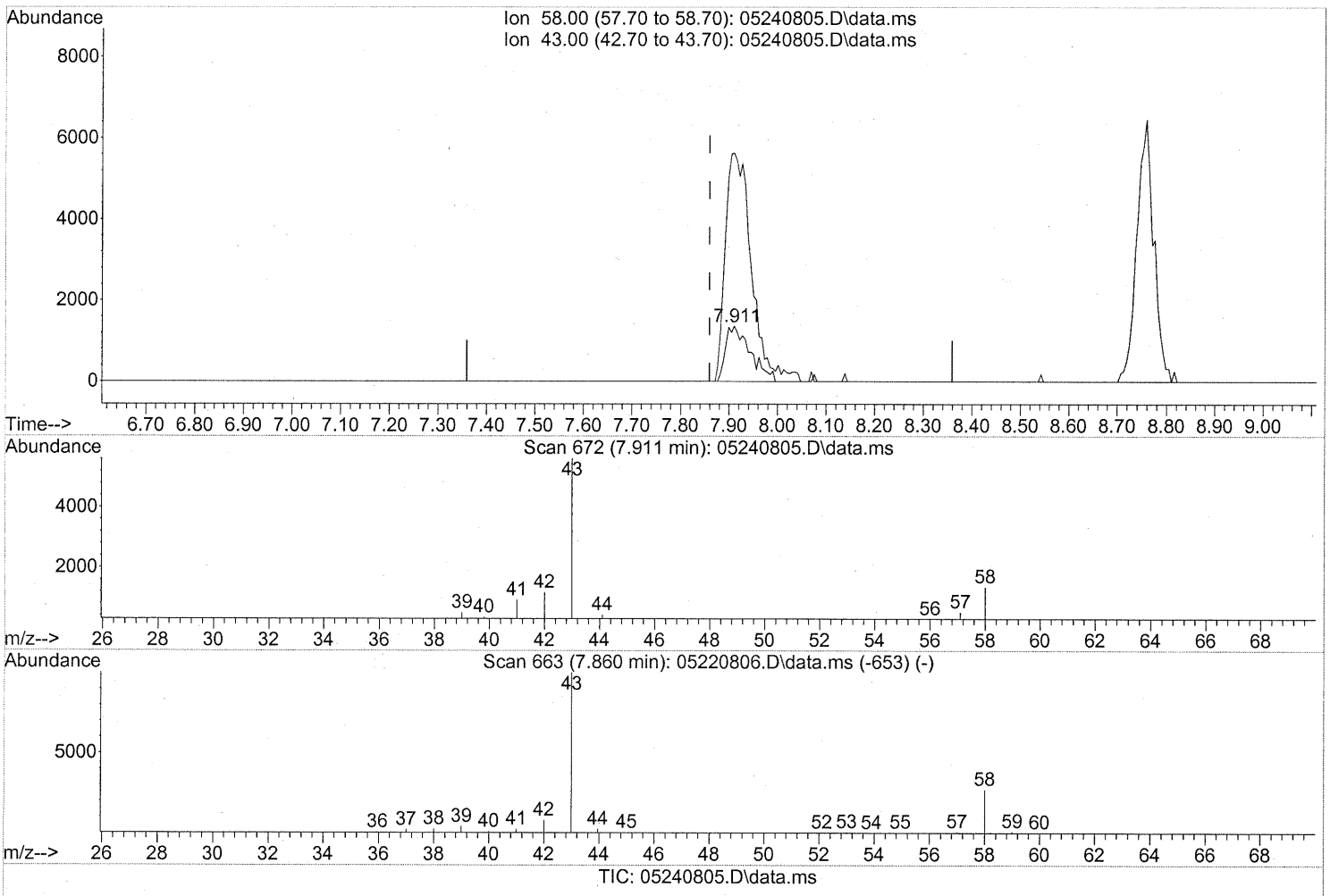
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.80	118	465	N.D. ✓	
81) 2-Ethyltoluene	24.62	105	431	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	776	N.D. ✓	
83) n-Decane	24.98	57	137	N.D.	
84) Benzyl Chloride	25.05	91	475	N.D. ✓	
85) 1,3-Dichlorobenzene	25.09	146	339	N.D. ✓	
86) 1,4-Dichlorobenzene	25.17	146	2225	N.D. ✓	
87) sec-Butylbenzene	25.05	105	70	N.D. ✓	
88) p-Isopropyltoluene	25.40	119	214	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	212	N.D.	
90) 1,2-Dichlorobenzene	25.59	146	422	N.D. ✓	
91) d-Limonene	25.58	68	163	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓	
93) n-Undecane	26.50	57	844	N.D.	
94) 1,2,4-Trichlorobenzene	27.63	180	646	N.D. ✓	
95) Naphthalene	27.79	128	4786	N.D. ✓	
96) n-Dodecane	27.74	57	861	N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D. ✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240805.D\data.ms

(13) Acetone (T)

7.911min (+0.051) 0.20ng

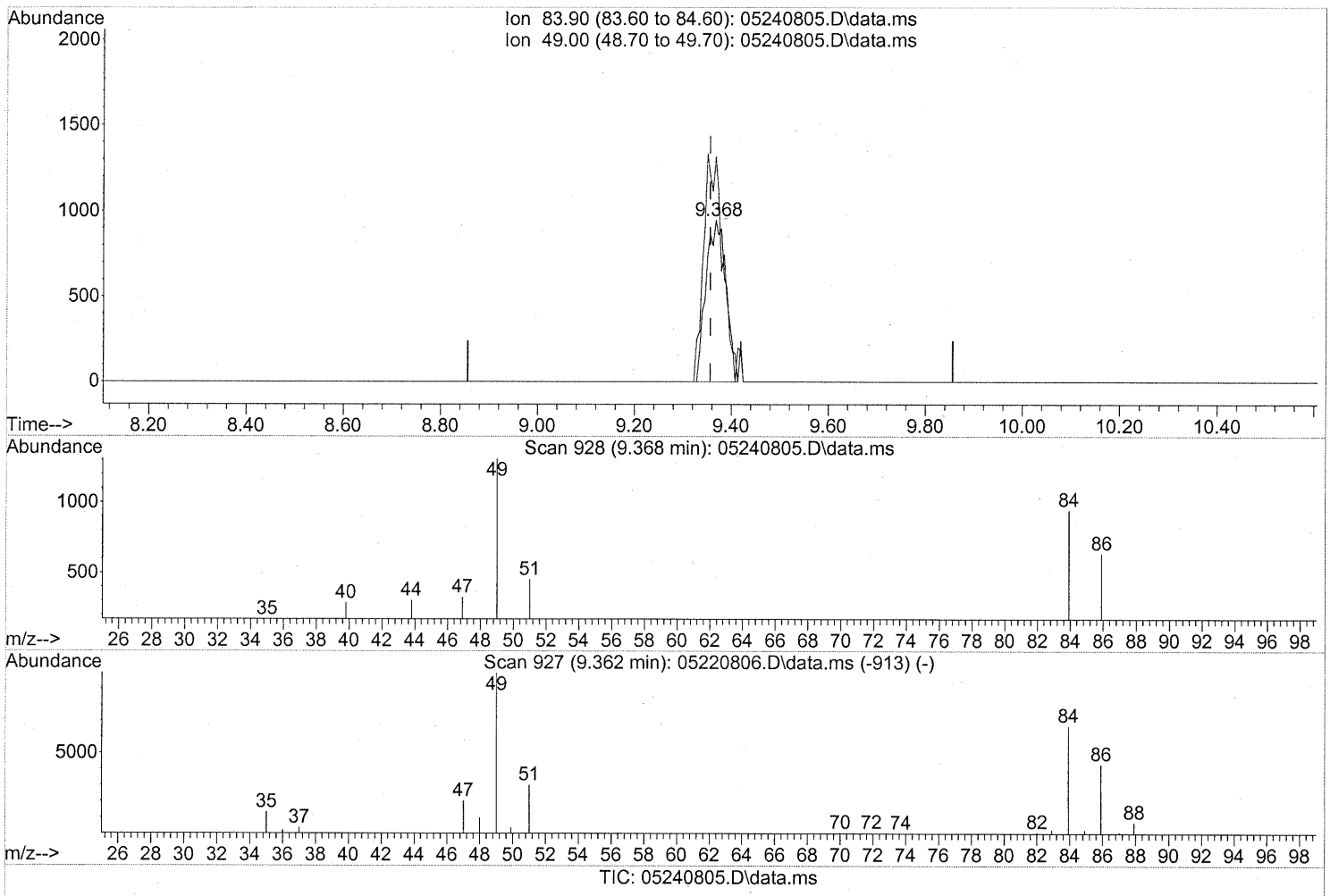
response 4799

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	438.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240805.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.10ng

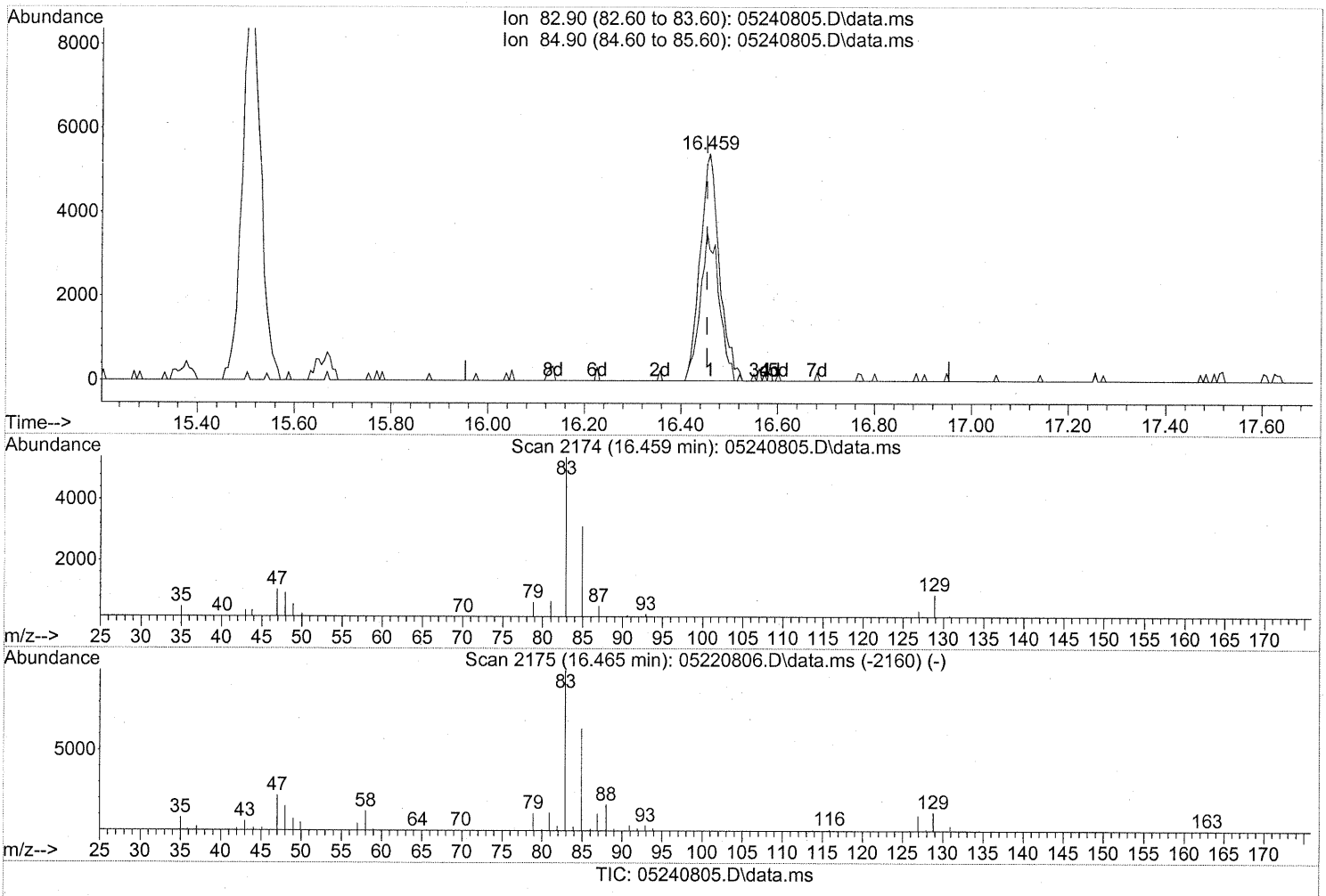
response 2698

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	134.32#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240805.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 0.45ng

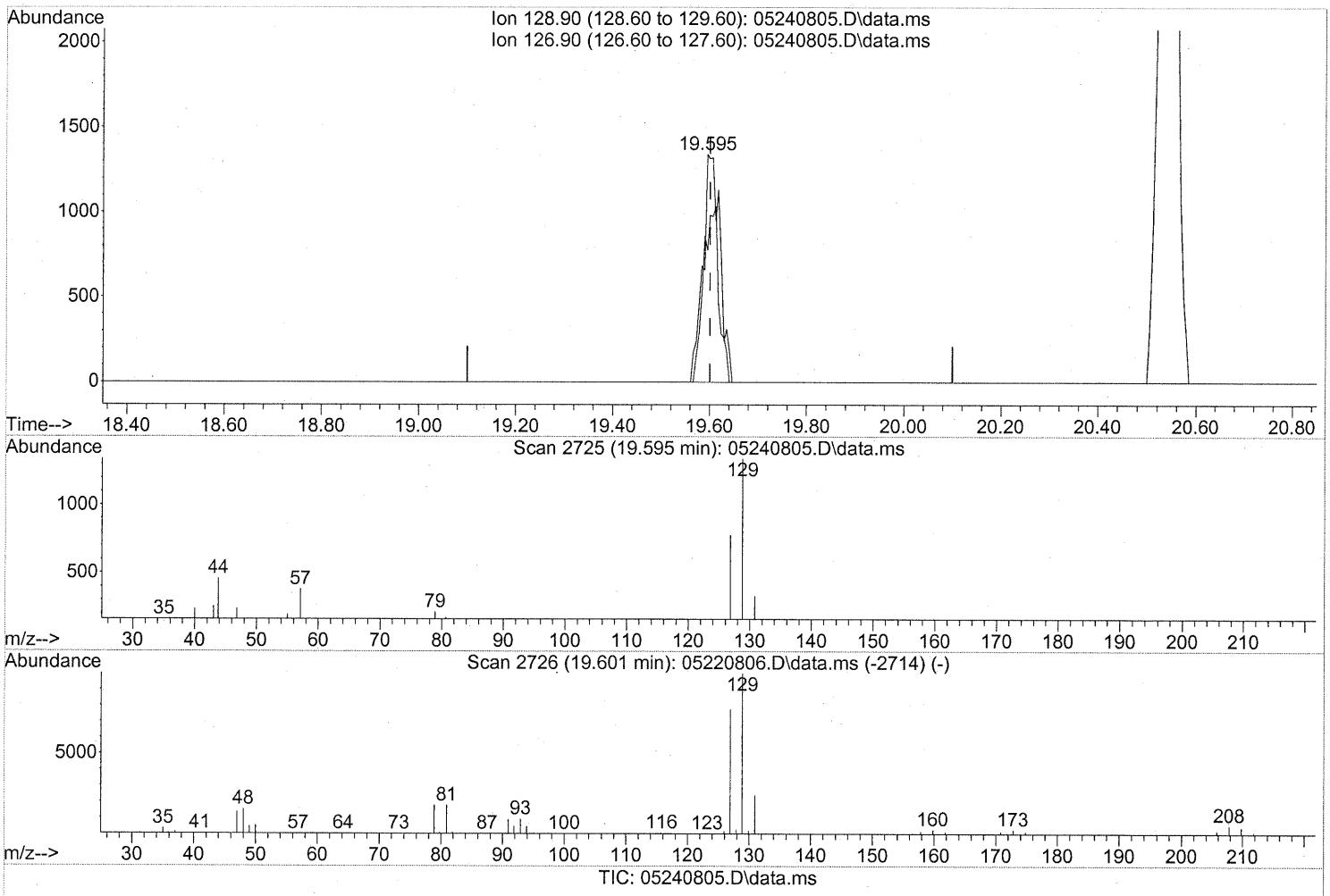
response 14985

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240805.D\data.ms

(60) Dibromochloromethane (T)

19.595min (-0.006) 0.11ng

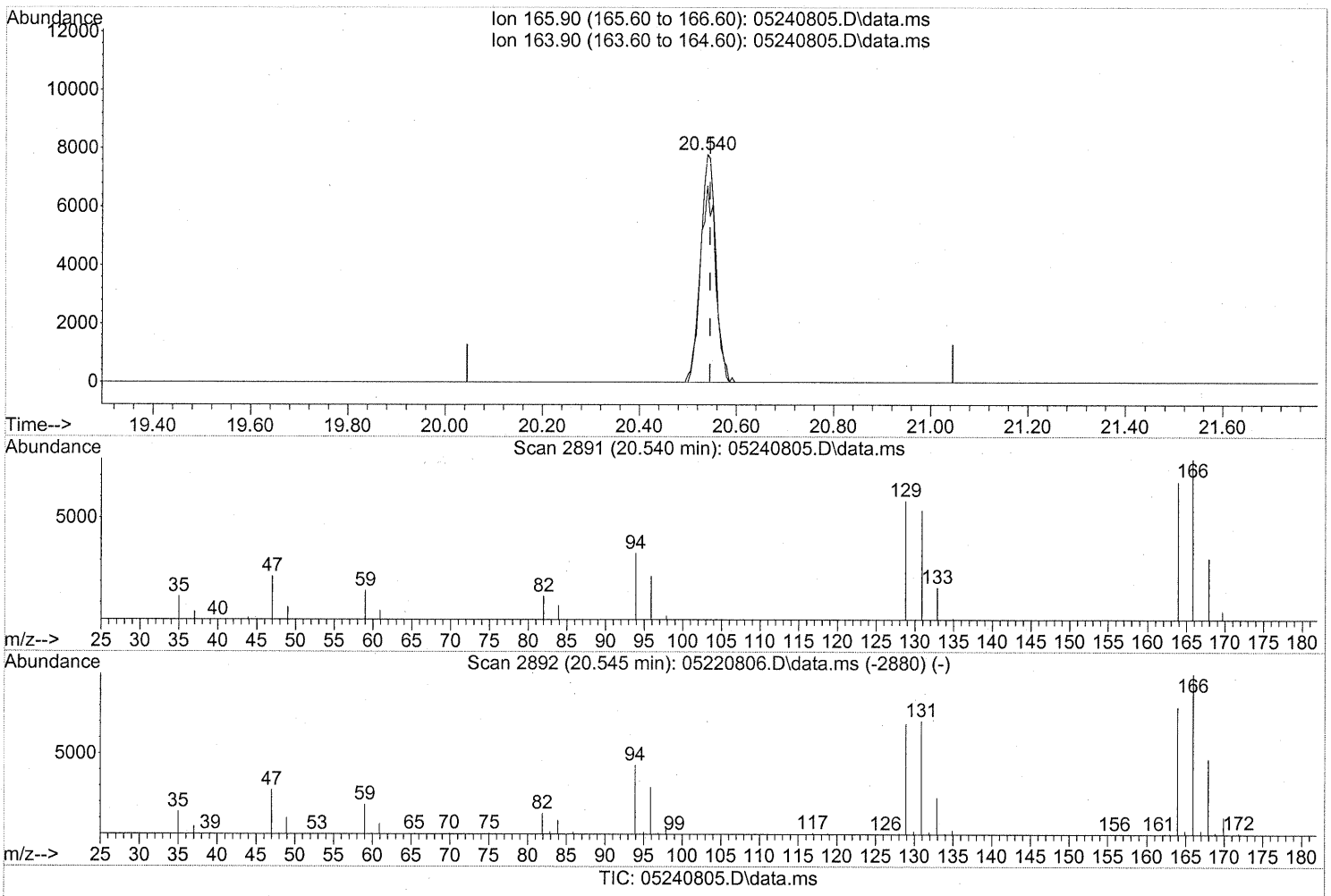
response 3316

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	69.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240805.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 0.53ng

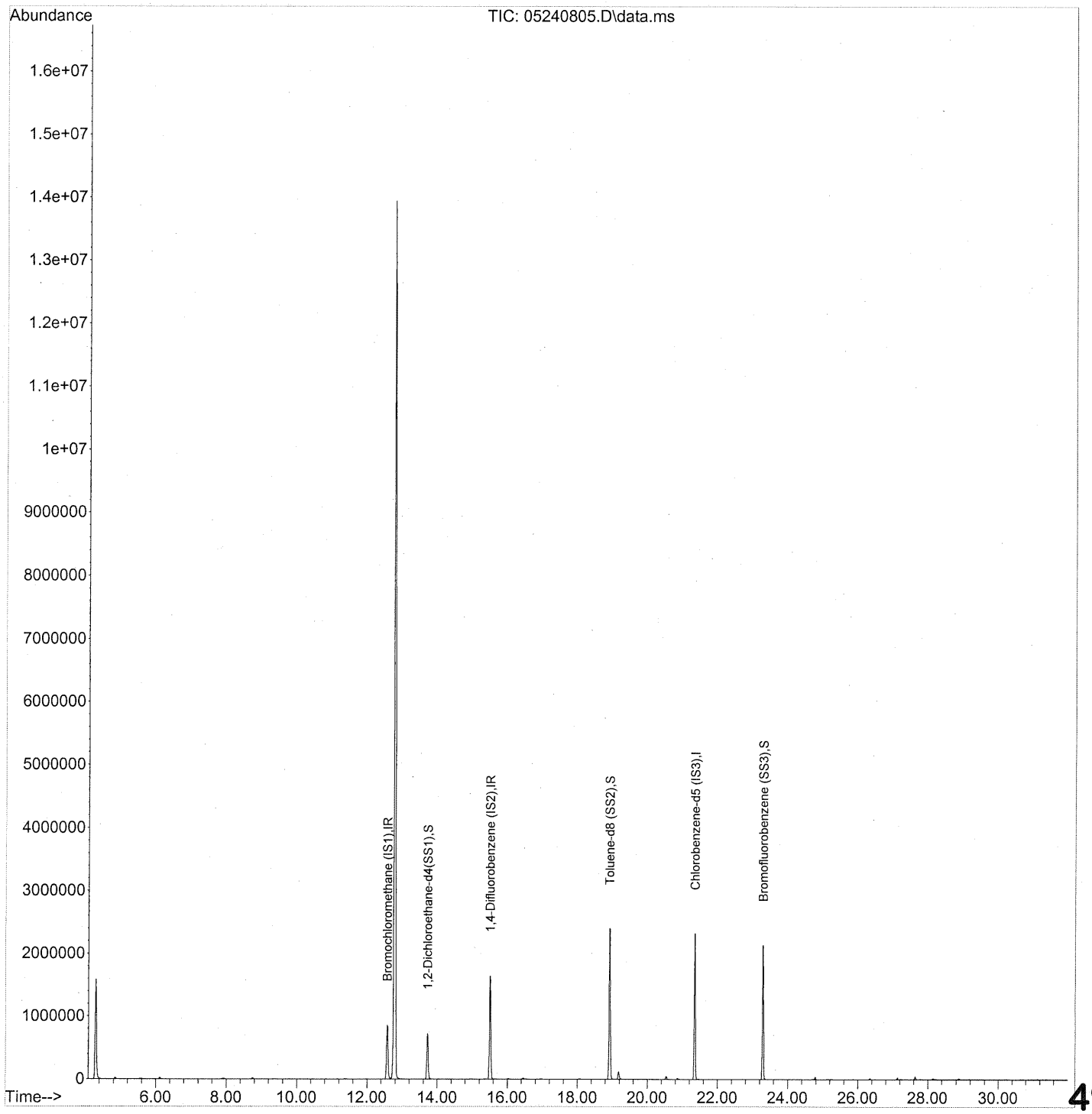
response 16961

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	87.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:08 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



490

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240805.D
Acq On : 24 May 2008 9:45
Operator : WA
Sample : P0801442-009 (5.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:08 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	444409	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1882384	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	881998	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	738393	23.979	ng	-0.03
Spiked Amount 25.000			Recovery =	95.92%		
5) Toluene-d8 (SS2)	18.92	98	1982731	25.031	ng	-0.02
Spiked Amount 25.000			Recovery =	100.12%		
6) Bromofluorobenzene (SS3)	23.29	174	794629	24.669	ng	0.00
Spiked Amount 25.000			Recovery =	98.68%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.79	119	924	N.D.		
8) n-Butylbenzene	25.91	91	105	N.D.		

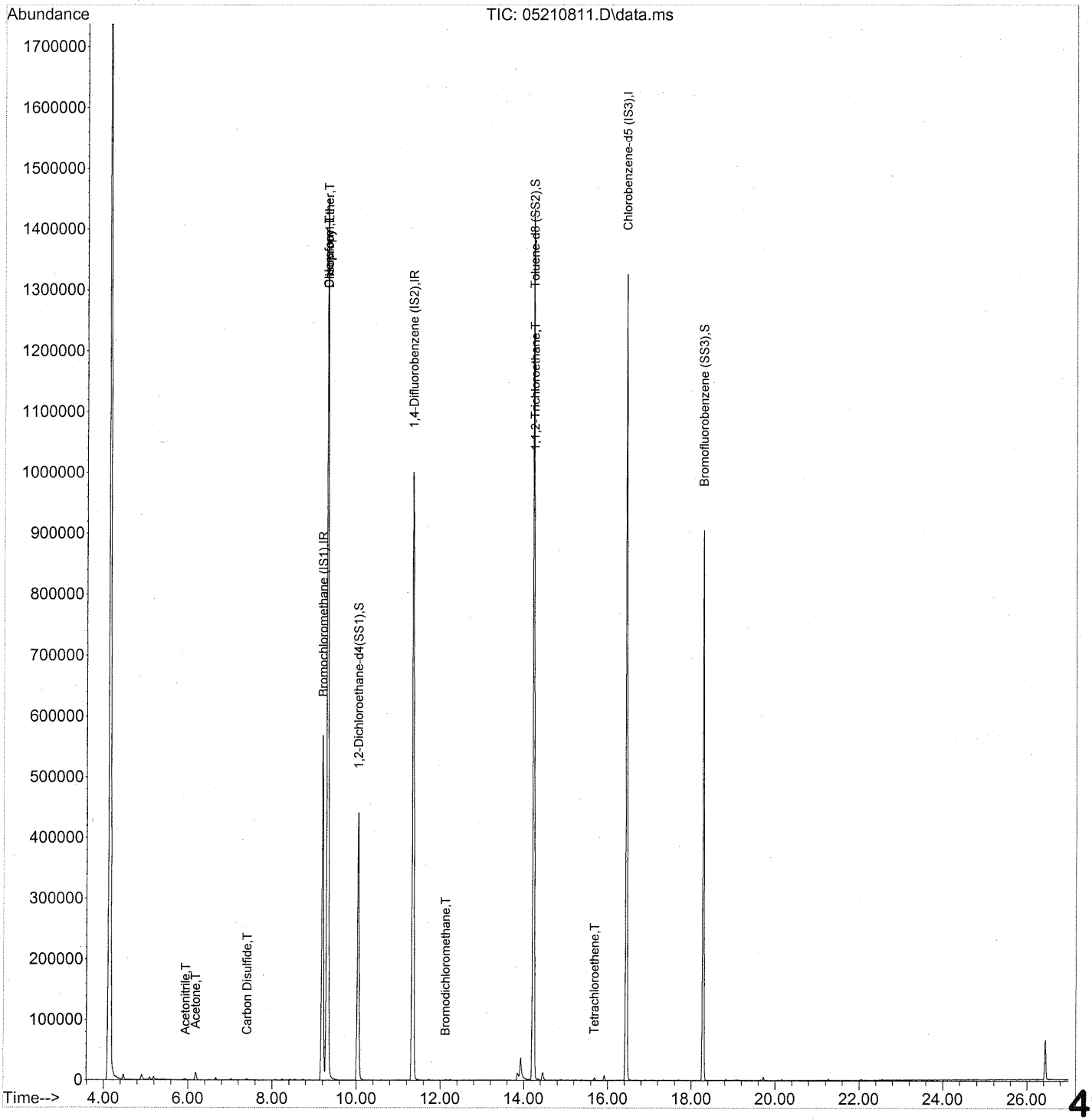
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/29/08

491

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210811.D
Acq On : 21 May 2008 14:45
Operator : WA
Sample : P0801442-009 Dil (1.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 16:37:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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\21\
Data File : 05210811.D
Acq On : 21 May 2008 14:45
Operator : WA
Sample : P0801442-009 Dil (1.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 16:37:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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	261196	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1111432	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	436653	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	405371	22.008	ng		-0.05
Spiked Amount 25.000			Recovery = 88.04%				
57) Toluene-d8 (SS2)	14.23	98	1125171	26.171	ng		-0.02
Spiked Amount 25.000			Recovery = 104.68%				
73) Bromofluorobenzene (SS3)	18.28	174	305757	27.325	ng		-0.01
Spiked Amount 25.000			Recovery = 109.32%				
Target Compounds							Qvalue
2) Propene	4.47	42	710	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	2948	0.063	ng	#	44
12) Acrolein	6.06	56	205	N.D.			
13) Acetone	6.18	58	5888	0.341	ng	#	82
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	6.40	45	105	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	1505	N.D.			
19) Methylene Chloride	7.03	84	336	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	3546	0.069	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	8.54	72	98	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	154565	13.659	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.23	57	888	N.D.			

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210811.D
Acq On : 21 May 2008 14:45
Operator : WA
Sample : P0801442-009 Dil (1.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 16:37:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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	9.31	83	1414425	72.621	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	11.00	78	337	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	11.33	84	677	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	1086	0.067	ng		78
47) Trichloroethene	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.25	57	1284	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	95684	7.236	ng	#	7
58) Toluene	14.35	91	654	N.D.			
59) 2-Hexanone	14.59	43	344	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	0.00	43	0	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.69	166	1799	0.138	ng		96
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	17.14	91	90	N.D.			
67) m- & p-Xylene	17.14	91	90	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	0.00	91	0	N.D.			
71) n-Nonane	0.00	43	0	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.29	105	95	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	0.00	105	0	N.D.			
78) 4-Ethyltoluene	0.00	105	0	N.D.			
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.			

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5/26/05

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210811.D
Acq On : 21 May 2008 14:45
Operator : WA
Sample : P0801442-009 Dil (1.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 16:37:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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

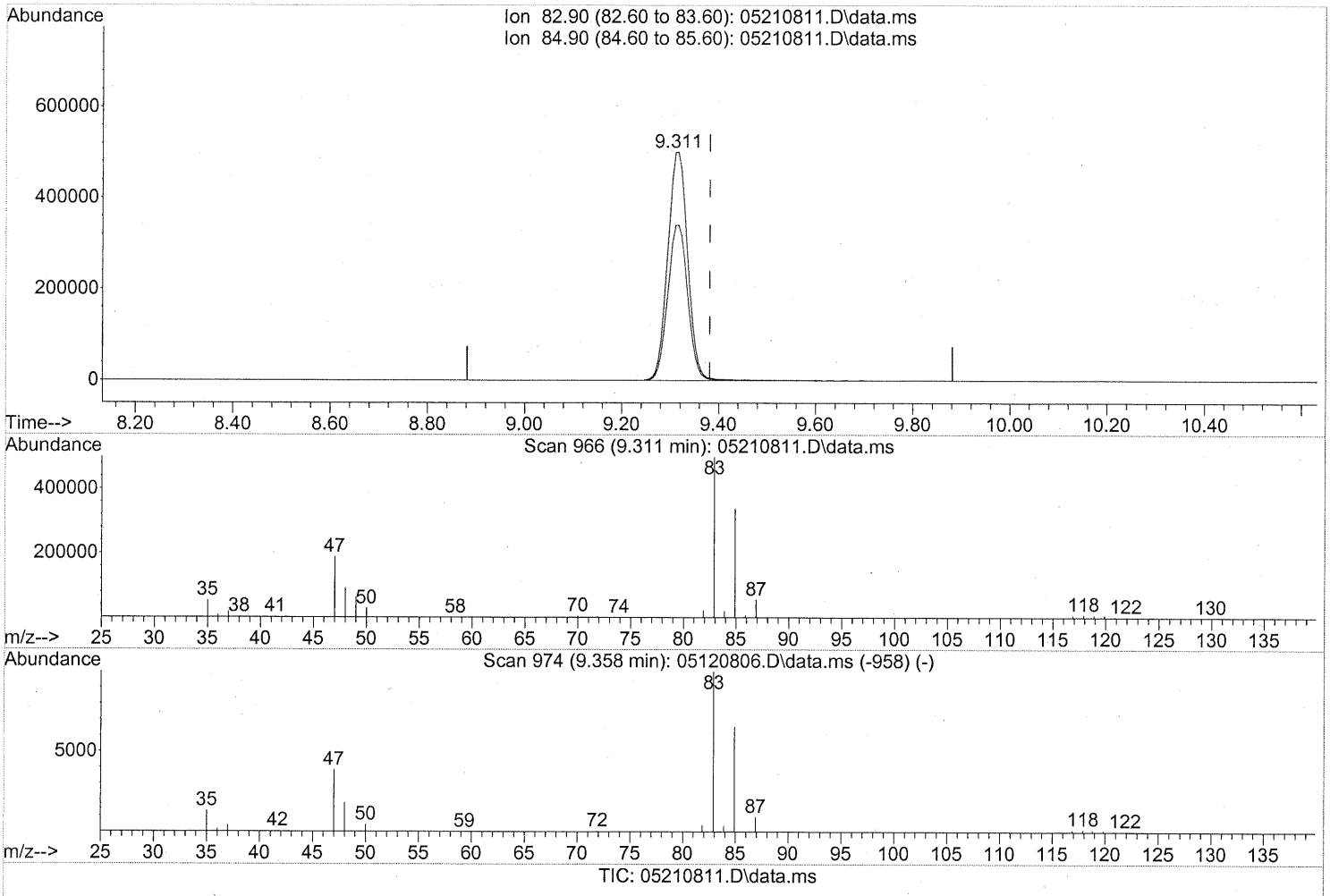
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	20.16	57	916	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.27	57	568	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	375	N.D.		
96) n-Dodecane	22.57	57	95	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\21\
Data File : 05210811.D
Acq On : 21 May 2008 14:45
Operator : WA
Sample : P0801442-009 Dil (1.0ml)
Misc : ENSR SG71B-05 (-3.4, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 16:37:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210811.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 72.62ng

response 1414425

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00201

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

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**	0.74	0.074	**0.41**	0.15	0.015	
74-87-3	**Chloromethane**	**0.11**	0.15	0.074	**0.051**	0.071	0.036	**J**
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.10**	0.74	0.074	**0.015**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.15	0.074	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.074	ND	0.038	0.019	
75-00-3	**Chloroethane**	**0.30**	0.15	0.074	**0.11**	0.056	0.028	
64-17-5	**Ethanol**	**53**	7.4	0.074	**28**	3.9	0.039	
67-64-1	**Acetone**	**27**	7.4	0.11	**12**	3.1	0.045	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.15	0.074	**0.21**	0.026	0.013	
107-13-1	**Acrylonitrile**	**0.11**	0.74	0.10	**0.053**	0.34	0.047	**J**
75-35-4	**1,1-Dichloroethene**	**0.087**	0.15	0.074	**0.022**	0.037	0.019	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.54**	0.74	0.11	**0.18**	0.24	0.036	**J**
75-09-2	**Methylene Chloride**	**0.29**	0.74	0.074	**0.083**	0.21	0.021	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.074	ND	0.047	0.023	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.15	0.082	**0.068**	0.019	0.011	
75-15-0	**Carbon Disulfide**	**9.0**	0.74	0.18	**2.9**	0.24	0.057	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.074	ND	0.036	0.018	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.074	ND	0.041	0.020	
108-05-4	Vinyl Acetate	ND	7.4	0.24	ND	2.1	0.067	
78-93-3	**2-Butanone (MEK)**	**4.6**	0.74	0.074	**1.6**	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.074	ND	0.037	0.019	
108-20-3	Diisopropyl Ether	ND	0.74	0.087	ND	0.18	0.021	
67-66-3	**Chloroform**	**6.3**	0.15	0.087	**1.3**	0.030	0.018	

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

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00201

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

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	0.74	0.075	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.074	ND	0.036	0.018	
71-55-6	**1,1,1-Trichloroethane**	**0.11**	0.15	0.074	**0.020**	0.027	0.013	**J**
71-43-2	**Benzene**	**2.1**	0.15	0.074	**0.66**	0.046	0.023	
56-23-5	**Carbon Tetrachloride**	**0.44**	0.15	0.074	**0.070**	0.023	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.74	0.074	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.074	ND	0.032	0.016	
75-27-4	**Bromodichloromethane**	**0.48**	0.15	0.074	**0.072**	0.022	0.011	
79-01-6	**Trichloroethene**	**0.38**	0.15	0.074	**0.071**	0.027	0.014	
123-91-1	1,4-Dioxane	ND	0.74	0.090	ND	0.20	0.025	
80-62-6	Methyl Methacrylate	ND	0.74	0.11	ND	0.18	0.027	
142-82-5	**n-Heptane**	**0.24**	0.74	0.094	**0.058**	0.18	0.023	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.076	ND	0.16	0.017	
108-10-1	**4-Methyl-2-pentanone**	**0.42**	0.74	0.082	**0.10**	0.18	0.020	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.093	ND	0.16	0.020	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.074	ND	0.027	0.013	
108-88-3	**Toluene**	**9.5**	0.74	0.074	**2.5**	0.20	0.020	
591-78-6	**2-Hexanone**	**0.44**	0.74	0.11	**0.11**	0.18	0.027	**J**
124-48-1	**Dibromochloromethane**	**0.26**	0.15	0.10	**0.030**	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.079	ND	0.019	0.010	
111-65-9	**n-Octane**	**0.36**	0.74	0.074	**0.078**	0.16	0.016	**J**
127-18-4	**Tetrachloroethene**	**2.9**	0.15	0.074	**0.43**	0.022	0.011	
108-90-7	**Chlorobenzene**	**0.093**	0.15	0.075	**0.020**	0.032	0.016	**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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00201

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

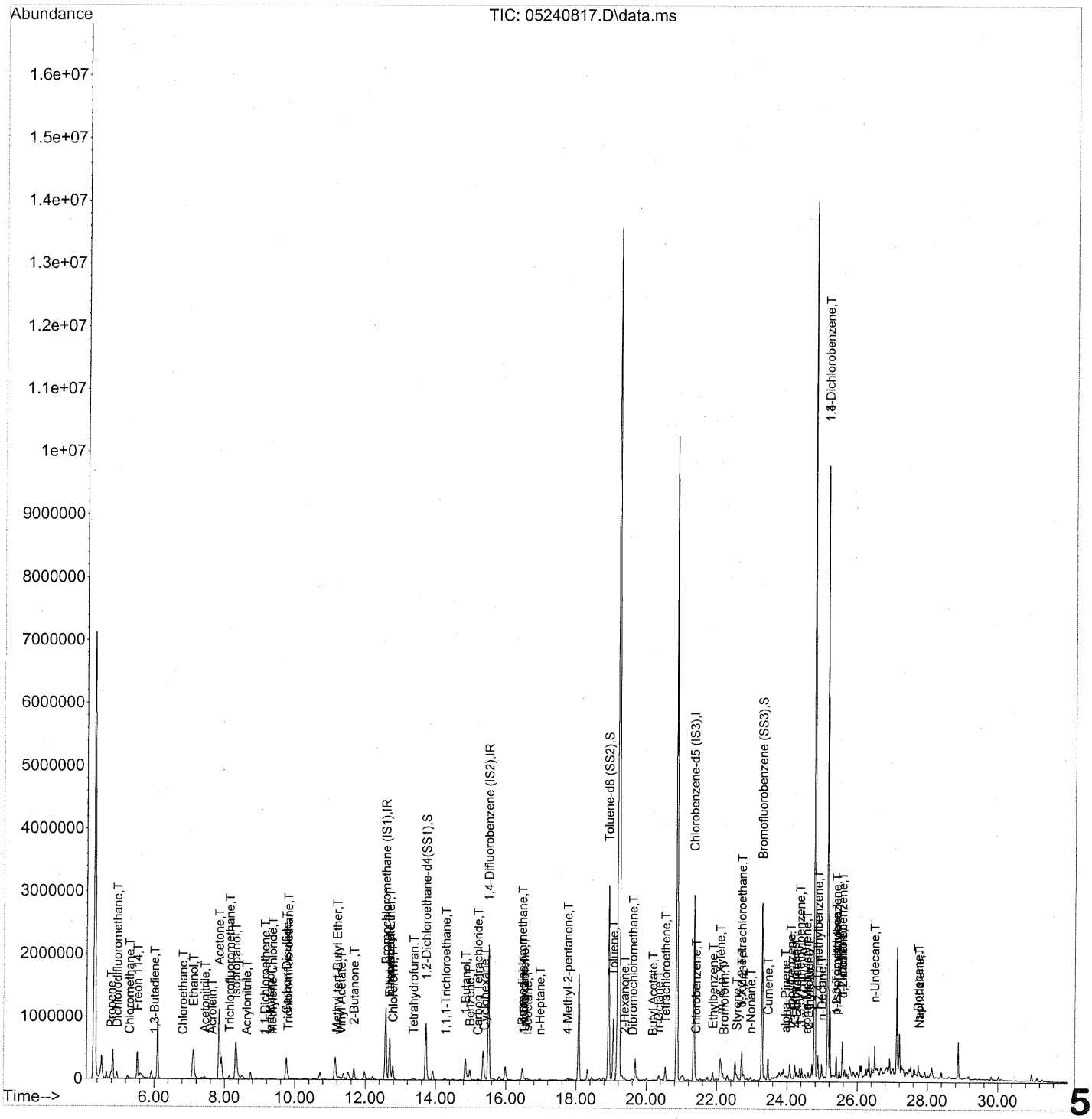
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**1.0**	0.74	0.091	**0.23**	0.17	0.021	
179601-23-1	**m,p-Xylenes**	**5.0**	0.74	0.19	**1.2**	0.17	0.044	
75-25-2	**Bromoform**	**0.14**	0.74	0.11	**0.013**	0.071	0.011	**J**
100-42-5	**Styrene**	**0.78**	0.74	0.11	**0.18**	0.17	0.026	
95-47-6	**o-Xylene**	**2.6**	0.74	0.093	**0.59**	0.17	0.021	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.094	ND	0.021	0.014	
98-82-8	**Cumene**	**0.15**	0.74	0.082	**0.030**	0.15	0.017	**J**
103-65-1	**n-Propylbenzene**	**0.44**	0.74	0.076	**0.089**	0.15	0.016	**J**
622-96-8	**4-Ethyltoluene**	**0.64**	0.74	0.084	**0.13**	0.15	0.017	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.68**	0.74	0.088	**0.14**	0.15	0.018	**J**
98-83-9	**alpha-Methylstyrene**	**0.11**	0.74	0.11	**0.023**	0.15	0.022	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.8**	0.74	0.10	**0.36**	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.028	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.091	ND	0.024	0.015	
106-46-7	**1,4-Dichlorobenzene**	**78**	0.15	0.082	**13**	0.024	0.014	
135-98-8	sec-Butylbenzene	ND	0.74	0.085	ND	0.13	0.016	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**1.2**	0.74	0.096	**0.22**	0.13	0.017	
95-50-1	**1,2-Dichlorobenzene**	**0.38**	0.15	0.097	**0.064**	0.024	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	0.11	ND	0.076	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	**Naphthalene**	**0.21**	0.29	0.11	**0.041**	0.056	0.021	**J**
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.012	
98-06-6	tert-Butylbenzene	ND	0.29	0.074	ND	0.054	0.013	
104-51-8	**n-Butylbenzene**	**0.39**	0.29	0.074	**0.070**	0.054	0.013	

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: RG Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



500

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	604273	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2567002	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1175375	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	931497	22.247	ng		0.00
Spiked Amount 25.000			Recovery =	89.00%			
57) Toluene-d8 (SS2)	18.92	98	2641326	25.022	ng		0.00
Spiked Amount 25.000			Recovery =	100.08%			
73) Bromofluorobenzene (SS3)	23.29	174	1095917	25.530	ng		0.00
Spiked Amount 25.000			Recovery =	102.12%			
Target Compounds							Qvalue
2) Propene	4.79	42	49588	1.039	ng		94
3) Dichlorodifluoromethane	4.96	85	120686	1.372	ng		99
4) Chloromethane	5.30	50	4109	0.072	ng		75
5) Freon 114	5.54	135	3090	0.071	ng		98
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.01	54	4293	0.101	ng	#	71
8) Bromomethane	6.50	94	1209	N.D.			
9) Chloroethane	6.82	64	5579	0.206	ng		96
10) Ethanol	7.11	45	1150657m	36.217	ng		
11) Acetonitrile	7.44	41	59688	0.650	ng		95
12) Acrolein	7.64	56	17470	0.770	ng		100
13) Acetone	7.85	58	606054m	18.631	ng		
14) Trichlorofluoromethane	8.14	101	59443	0.788	ng		100
15) Isopropanol	8.32	45	1414393	13.633	ng		98
16) Acrylonitrile	8.63	53	3866	~~0.078~~ ng	YCS		95
17) 1,1-Dichloroethene	9.15	96	1974	0.059	ng	#	85
18) tert-Butanol	9.29	59	32575	0.369	ng		94
19) Methylene Chloride	9.36	84	7112	0.196	ng	#	67
20) Allyl Chloride	9.56	41	827	N.D.			
21) Trichlorotrifluoroethane	9.81	151	12099	0.353	ng		93
22) Carbon Disulfide	9.76	76	847649	6.144	ng		99
23) trans-1,2-Dichloroethene	10.72	61	1970	N.D.			
24) 1,1-Dichloroethane	11.10	63	576	N.D.			
25) Methyl tert-Butyl Ether	11.20	73	5896	~~0.056~~ ng	NR	#	43
26) Vinyl Acetate	11.31	86	2163	~~0.360~~ ng	NR	#	1
27) 2-Butanone	11.68	72	74745	3.148	ng	#	83
28) cis-1,2-Dichloroethene	12.35	61	427	N.D.			
29) Diisopropyl Ether	12.69	87	4236	~~0.146~~ ng	NR	#	1
30) Ethyl Acetate	12.69	61	48031	3.748	ng		75
31) n-Hexane	12.70	57	321298	4.968	ng		90

501

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	236904	4.299 ng		100
34) Tetrahydrofuran	13.37	72	7176	0.316 ng	#	72
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.91	62	1347	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	4381	0.075 ng		82
39) Isopropyl Acetate	14.81	61	58	N.D.		
40) 1-Butanol	14.85	56	330071	9.355 ng		86
41) Benzene	14.98	78	192860	1.435 ng		98
42) Carbon Tetrachloride	15.20	117	15493	0.299 ng		96
43) Cyclohexane	15.40	84	10085	0.193 ng	#	1
44) tert-Amyl Methyl Ether	15.85	73	420	N.D. ✓		
45) 1,2-Dichloropropane	16.18	63	490	N.D. ✓		
46) Bromodichloromethane	16.46	83	14944	0.329 ng		97
47) Trichloroethene	16.52	130	10701	0.260 ng		94
48) 1,4-Dioxane	16.50	88	4993	~~0.197 ng~~ UR	#	37
49) Isooctane	16.62	57	29891	0.194 ng		81
50) Methyl Methacrylate	16.80	100	52	N.D. ✓		
51) n-Heptane	16.97	71	5811	0.163 ng	#	85
52) cis-1,3-Dichloropropene	17.83	75	125	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	10203	0.286 ng		74
54) trans-1,3-Dichloropropene	18.43	75	52	N.D. ✓		
55) 1,1,2-Trichloroethane	18.46	97	1364	N.D. ✓		
58) Toluene	19.06	91	931979	6.495 ng		97
59) 2-Hexanone	19.37	43	29735	0.301 ng	#	67
60) Dibromochloromethane	19.61	129	6797	0.175 ng		89
61) 1,2-Dibromoethane	20.00	107	62	N.D. ✓		
62) Butyl Acetate	20.18	43	7352	0.073 ng		82
63) n-Octane	20.35	57	7826	0.247 ng		91
64) Tetrachloroethene	20.54	166	83735	1.972 ng		99
65) Chlorobenzene	21.41	112	6035	0.063 ng		84
66) Ethylbenzene	21.89	91	112356	0.683 ng		93
67) m- & p-Xylene	22.10	91	374954	3.407 ng		94
68) Bromoform	22.21	173	2693	0.093 ng		97
69) Styrene	22.57	104	52242	0.531 ng		88
70) o-Xylene	22.71	91	207143	1.744 ng		95
71) n-Nonane	22.98	43	29799	0.353 ng	#	80
72) 1,1,2,2-Tetrachloroethane	22.71	83	2505	~~0.051 ng~~ UR	#	1
74) Cumene	23.46	105	15903	0.101 ng		96
75) alpha-Pinene	23.96	93	23531	0.288 ng		92
76) n-Propylbenzene	24.10	91	59708	0.297 ng	#	33
77) 3-Ethyltoluene	24.22	105	141646	0.841 ng		97
78) 4-Ethyltoluene	24.28	105	67820	0.432 ng		96
79) 1,3,5-Trimethylbenzene	24.37	105	65325	0.461 ng		96

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	5755	0.075 ng	#	79
81) 2-Ethyltoluene	24.61	105	69863	0.409 ng		98
82) 1,2,4-Trimethylbenzene	24.88	105	175158	1.213 ng		88
83) n-Decane	24.98	57	98213	1.236 ng		77
84) Benzyl Chloride	25.05	91	2121	N.D. ✓		
85) 1,3-Dichlorobenzene	25.16	146	4652470	~~51.537 ng~~ NR		99
86) 1,4-Dichlorobenzene	25.16	146	4652470	53.162 ng		99
87) sec-Butylbenzene	25.21	105	8058	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	124808	0.822 ng		95
89) 1,2,3-Trimethylbenzene	25.41	105	64586	0.457 ng		93
90) 1,2-Dichlorobenzene	25.57	146	22227	0.260 ng		89
91) d-Limonene	25.58	68	140260	2.438 ng		100
92) 1,2-Dibromo-3-Chloropr...	26.14	157	62	N.D. ✓		
93) n-Undecane	26.50	57	181855	2.187 ng	#	65
94) 1,2,4-Trichlorobenzene	27.63	180	2002	N.D. ✓		
95) Naphthalene	27.77	128	27818m	0.146 ng		
96) n-Dodecane	27.73	57	55580	0.672 ng		83
97) Hexachloro-1,3-butadiene	28.19	225	557	N.D. ✓		

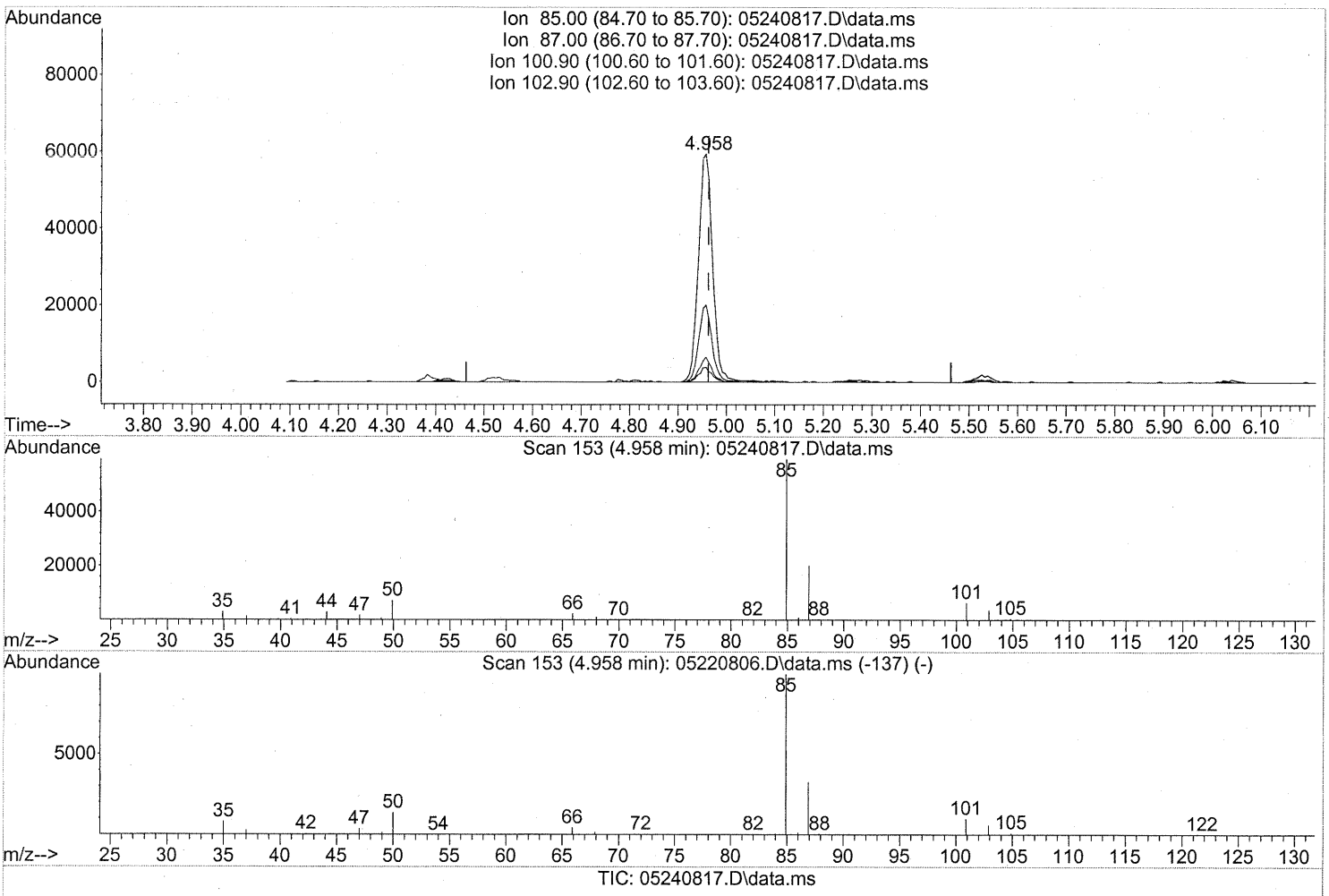
(#) = qualifier out of range (m) = manual integration (+) = signals summed

503

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(3) Dichlorodifluoromethane (T)

4.958min (-0.006) 1.37ng

response 120686

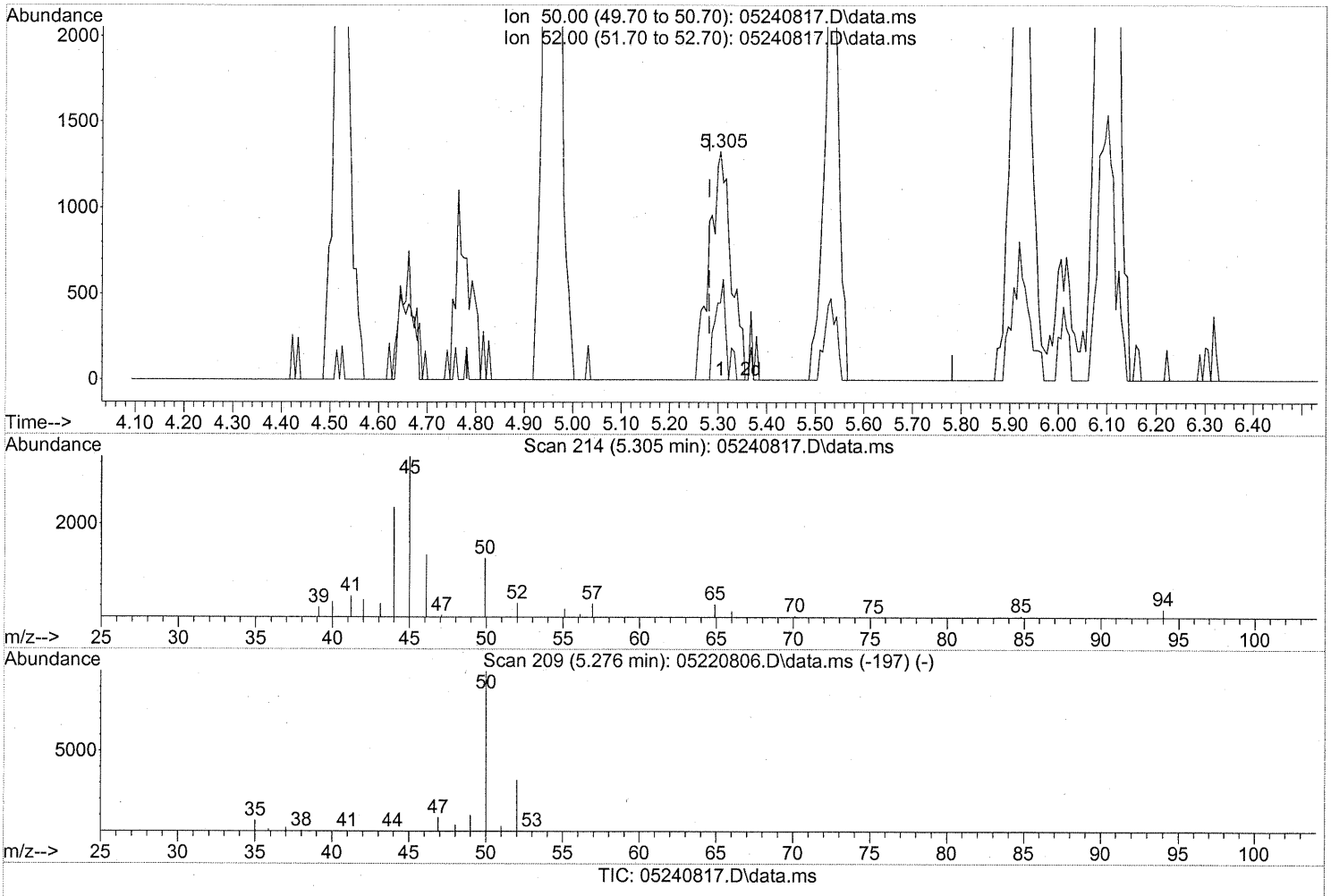
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.64
100.90	9.30	9.41
102.90	6.00	5.76

504

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(4) Chloromethane (T)

5.305min (+0.023) 0.07ng

response 4109

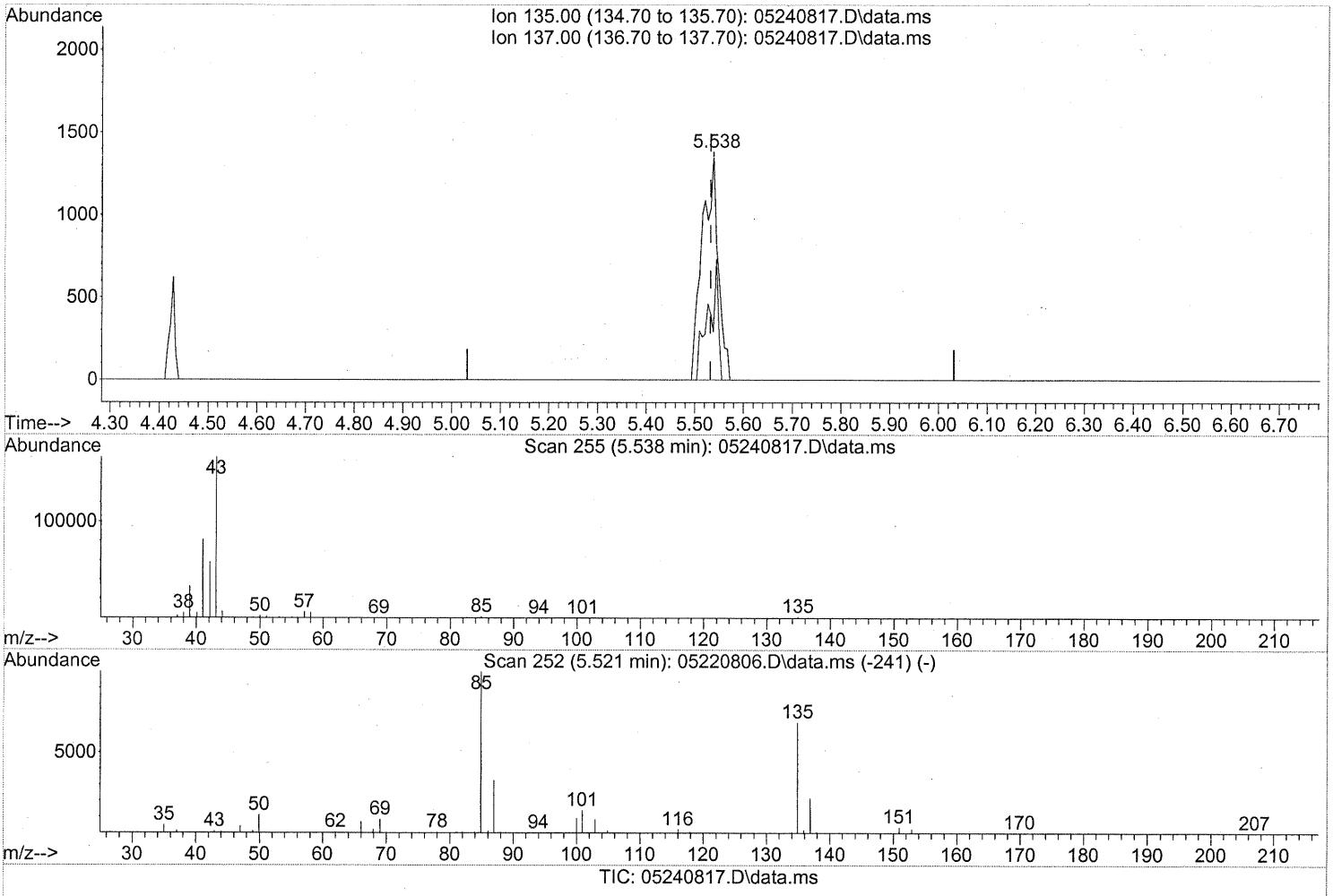
Ion	Exp%	Act%
50.00	100	100
52.00	33.70	19.57
0.00	0.00	0.00
0.00	0.00	0.00

505

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(5) Freon 114 (T)

5.538min (+0.006) 0.07ng

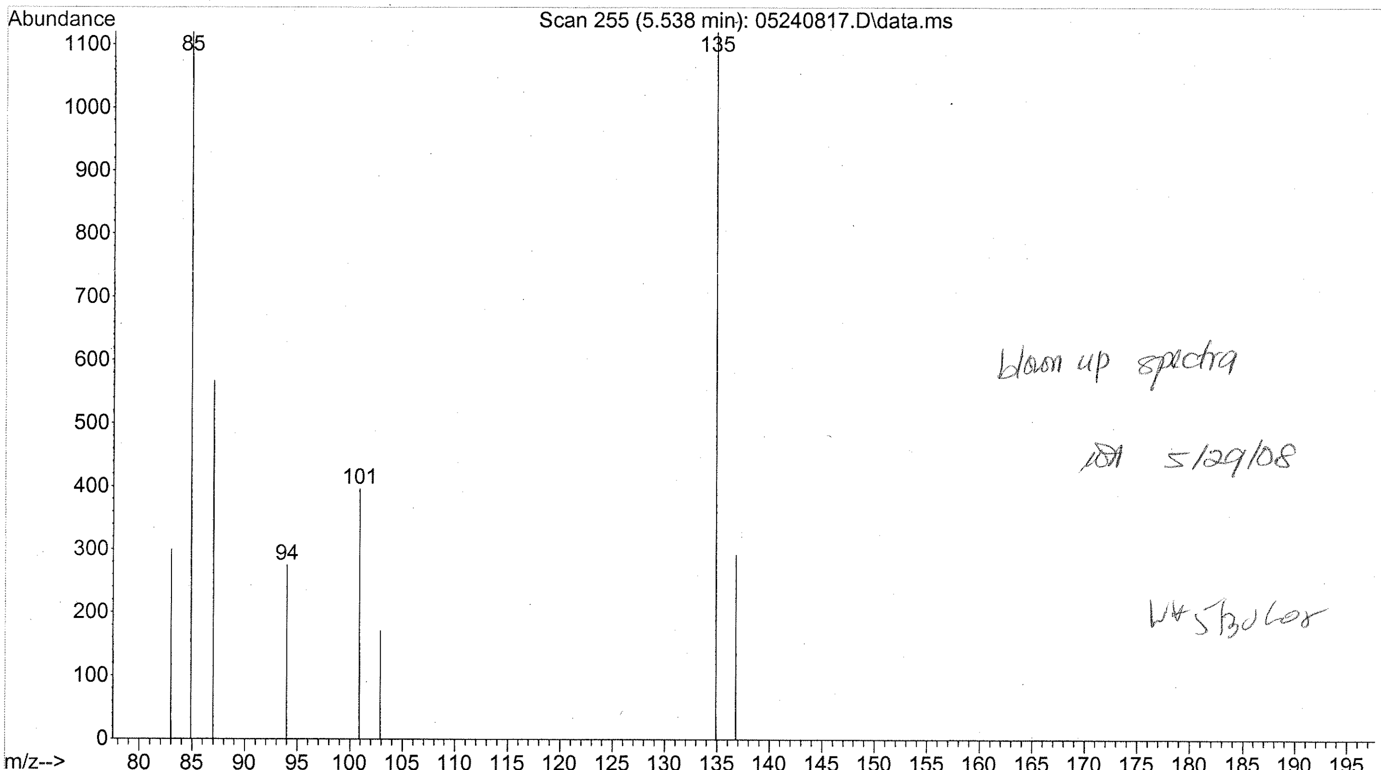
response 3090

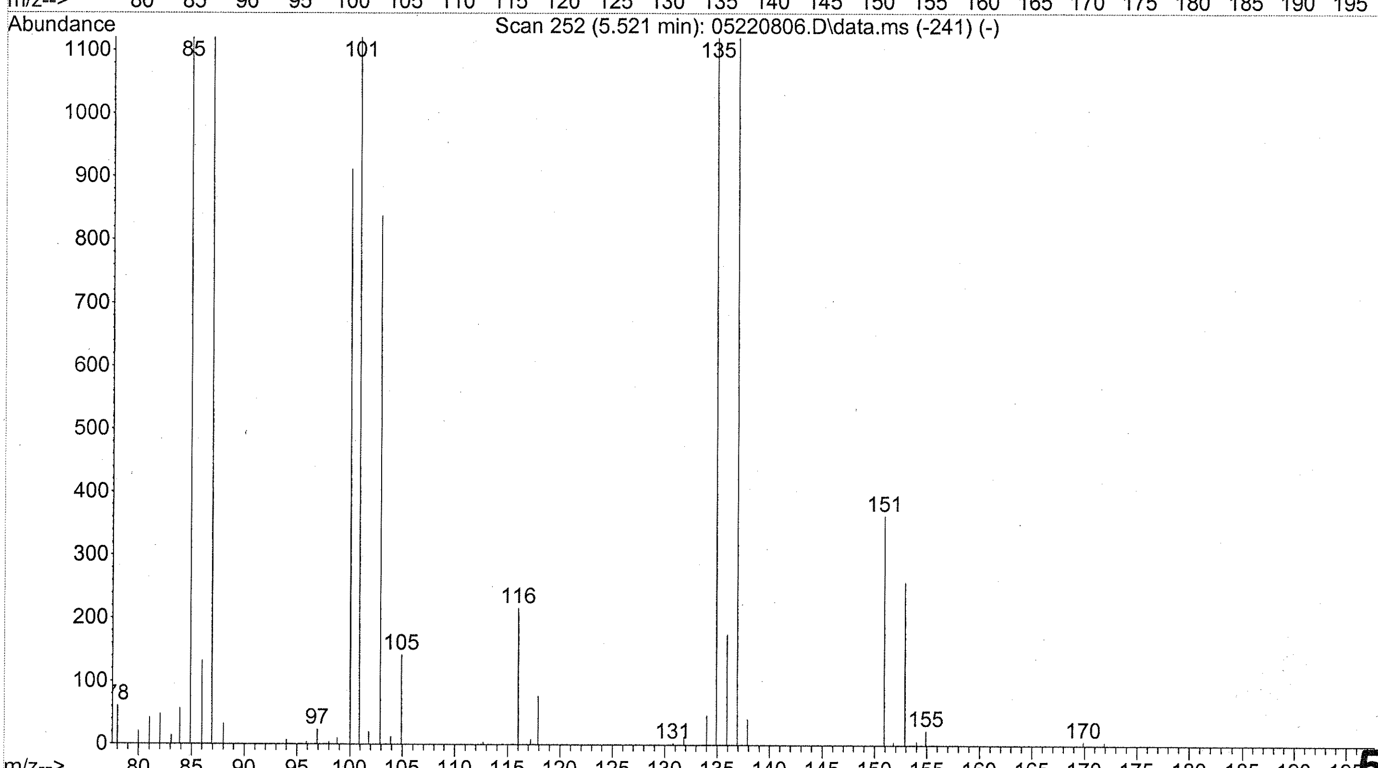
Ion	Exp%	Act%
135.00	100	100
137.00	31.50	32.78
0.00	0.00	0.00
0.00	0.00	0.00

see blown up spectra

506

File :J:\MS13\DATA\2008_05\24\05240817.D
Operator : WA
Acquired : 24 May 2008 18:08 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-010 (1000ml)
Misc Info : ENSR SG65B-05 (-2.3, 3.5)
Vial Number: 14

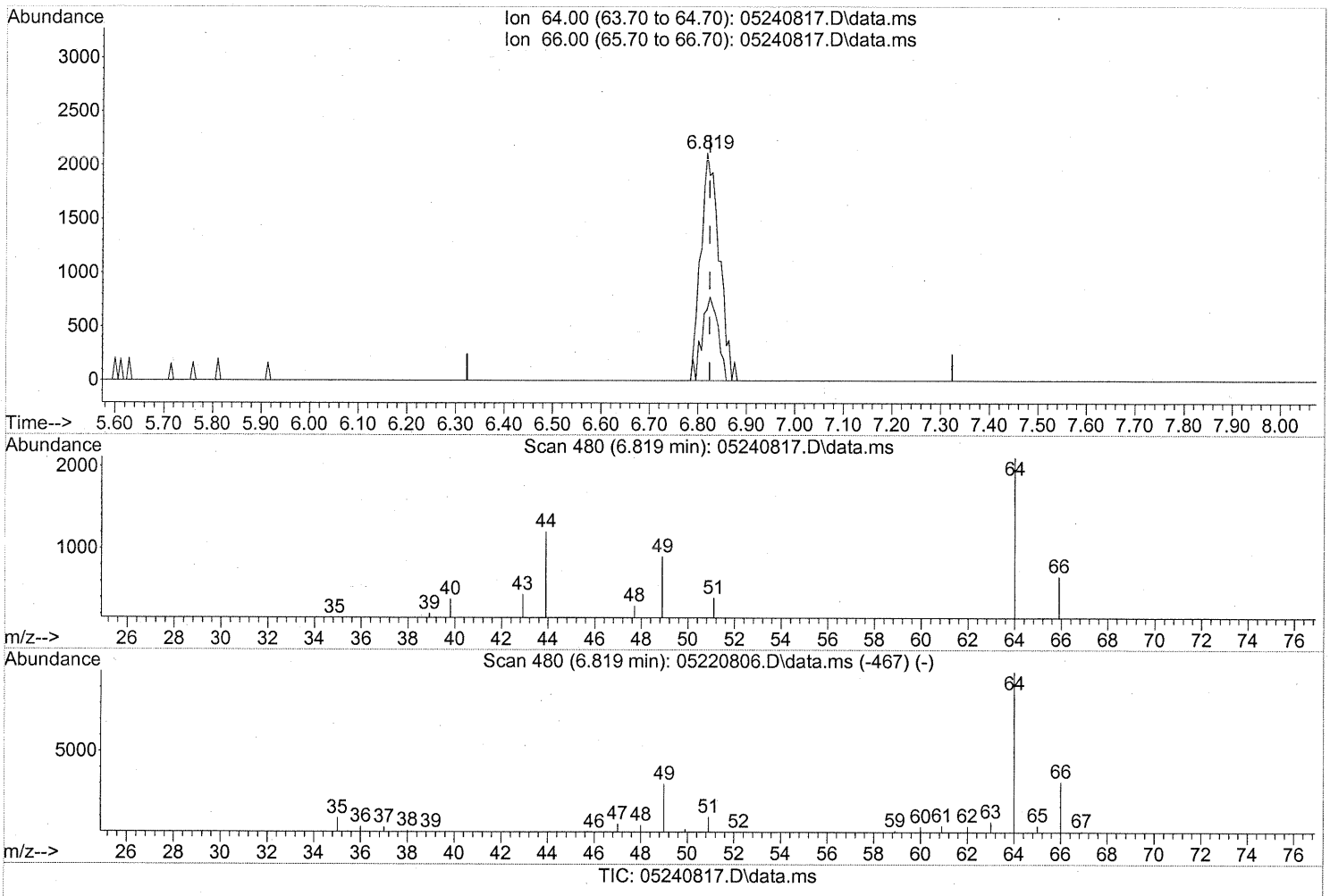




Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(9) Chloroethane (T)

6.819min (-0.006) 0.21ng

response 5579

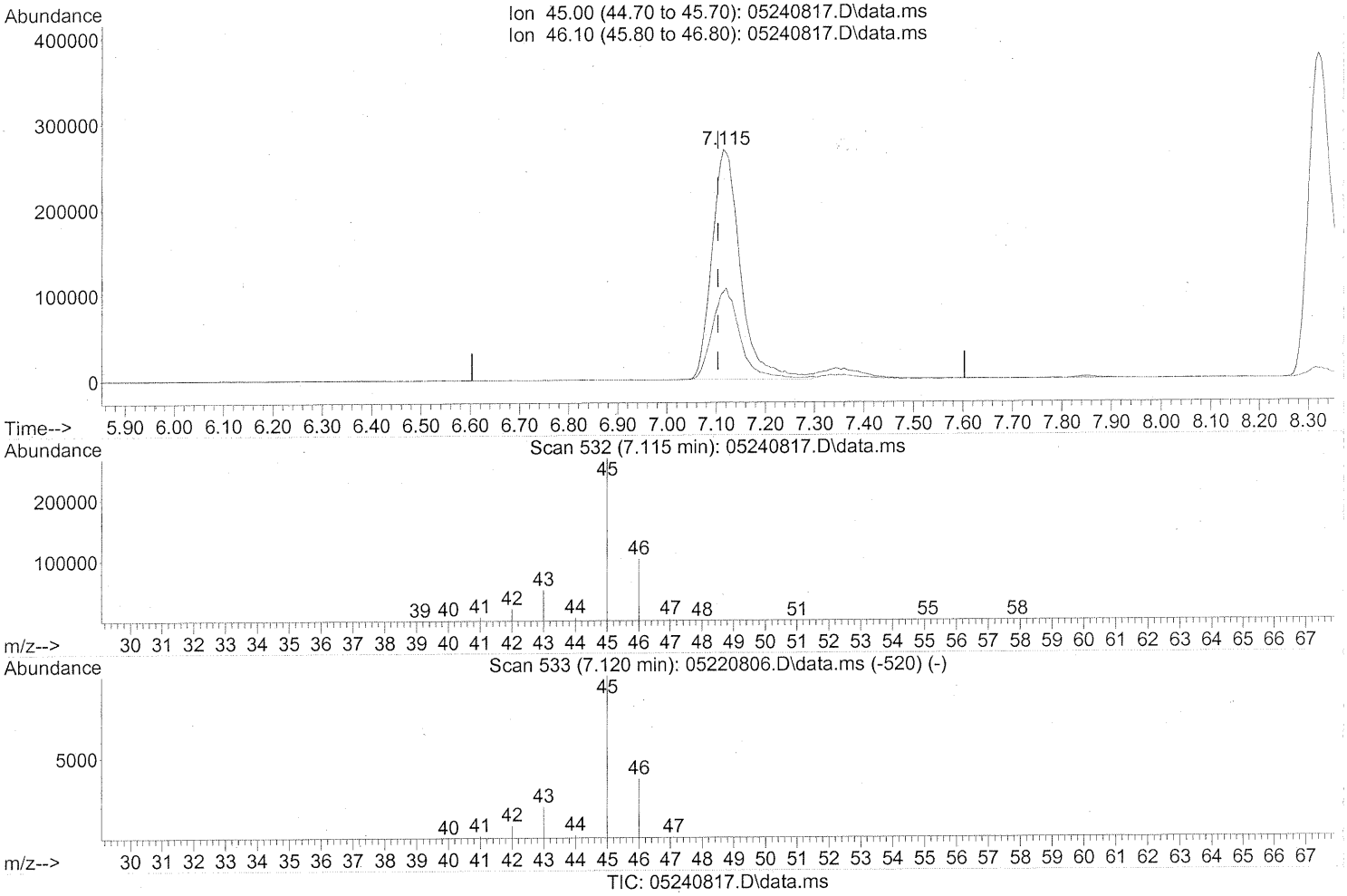
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	31.64
0.00	0.00	0.00
0.00	0.00	0.00

508

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801422-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 09:04:17 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 33.98ng

response 1079440

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.47
0.00	0.00	0.00
0.00	0.00	0.00

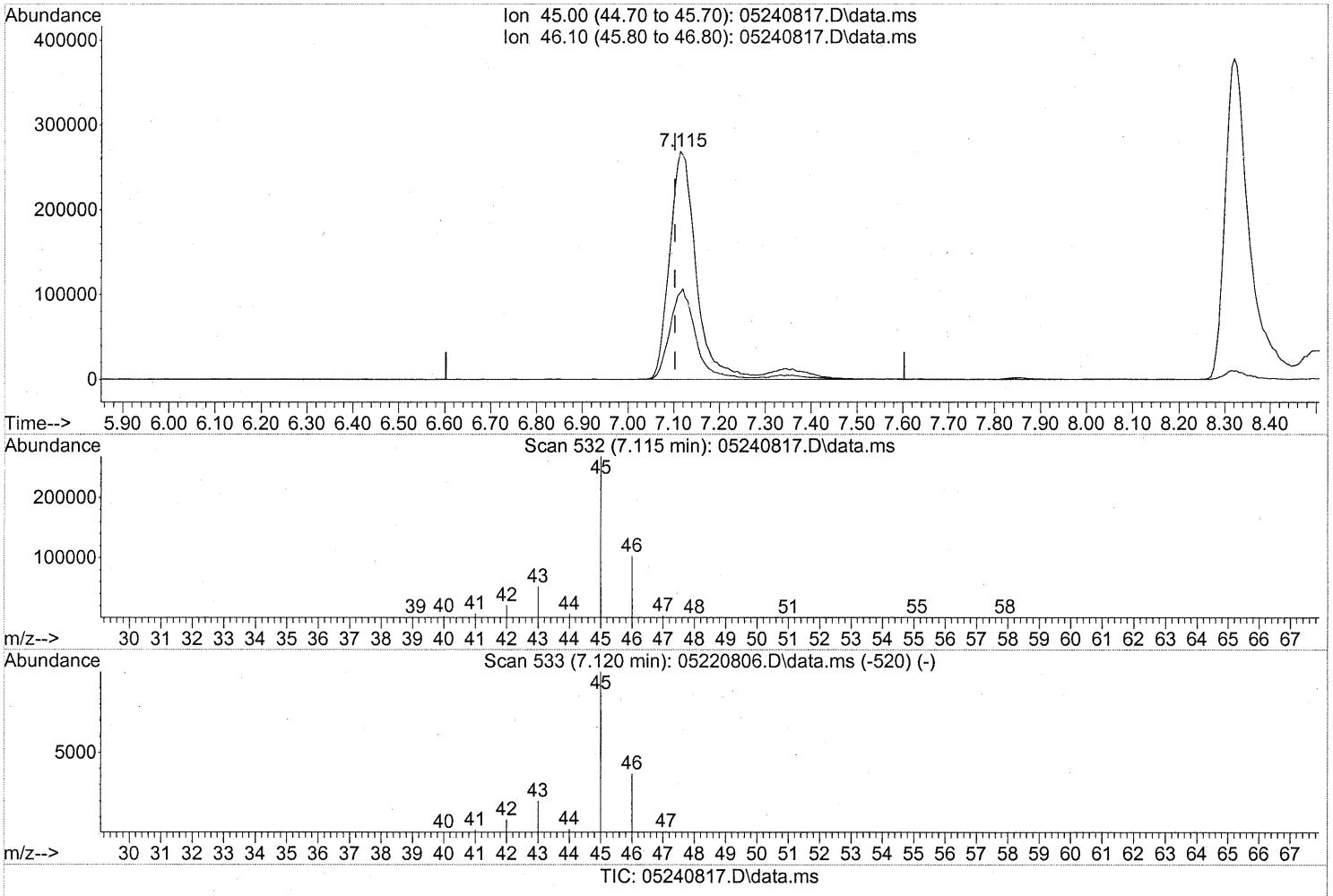
tailing

509

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 36.22ng m

response 1150657

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.09
0.00	0.00	0.00
0.00	0.00	0.00

added tailing
5/29/08

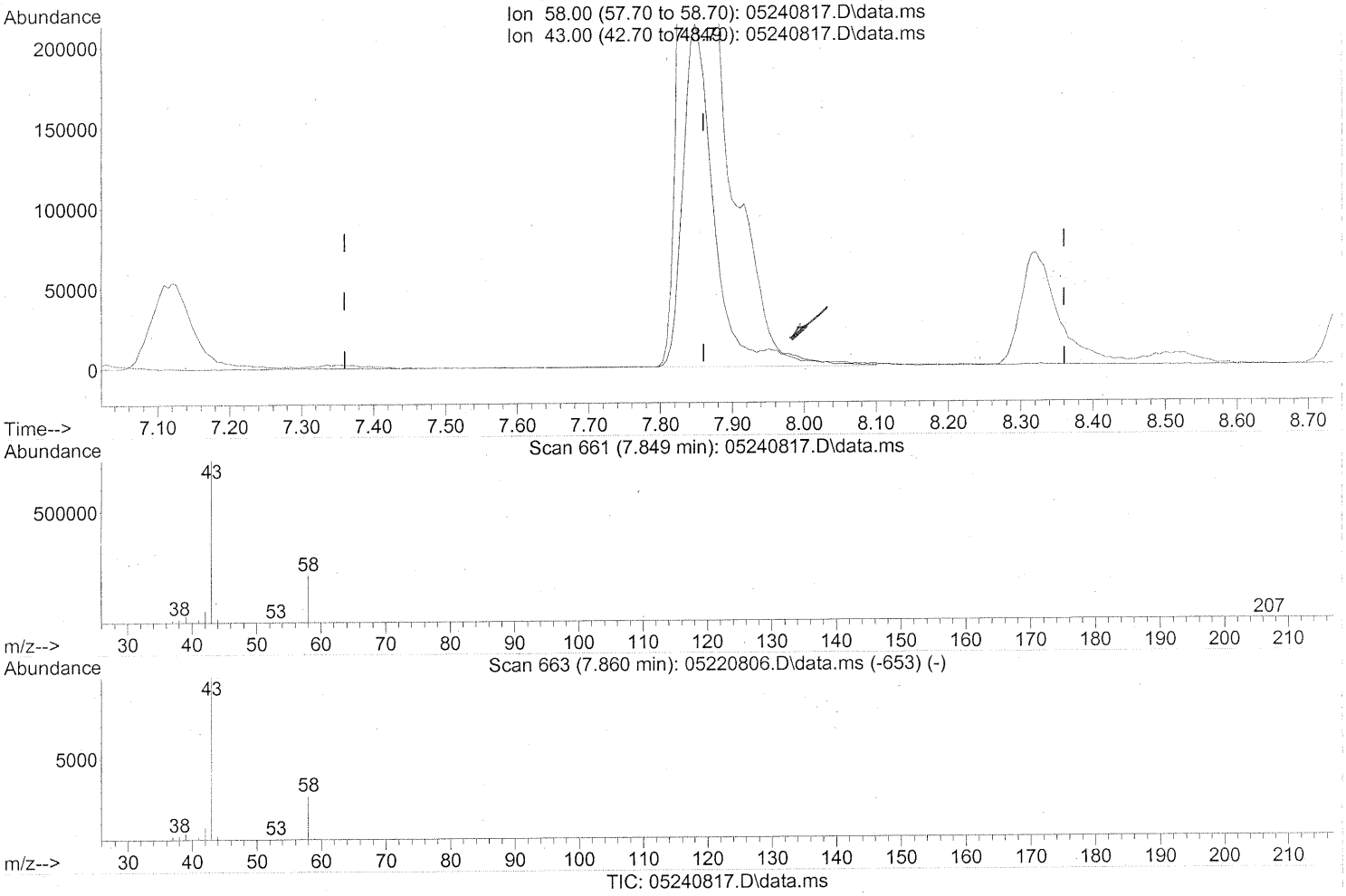
WA 5/30/08

510

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA 4 5/29/08
Sample : P0801422-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 09:04:17 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(13) Acetone (T)

7.849min (-0.011) 19.97ng

interf. peak

response 649737

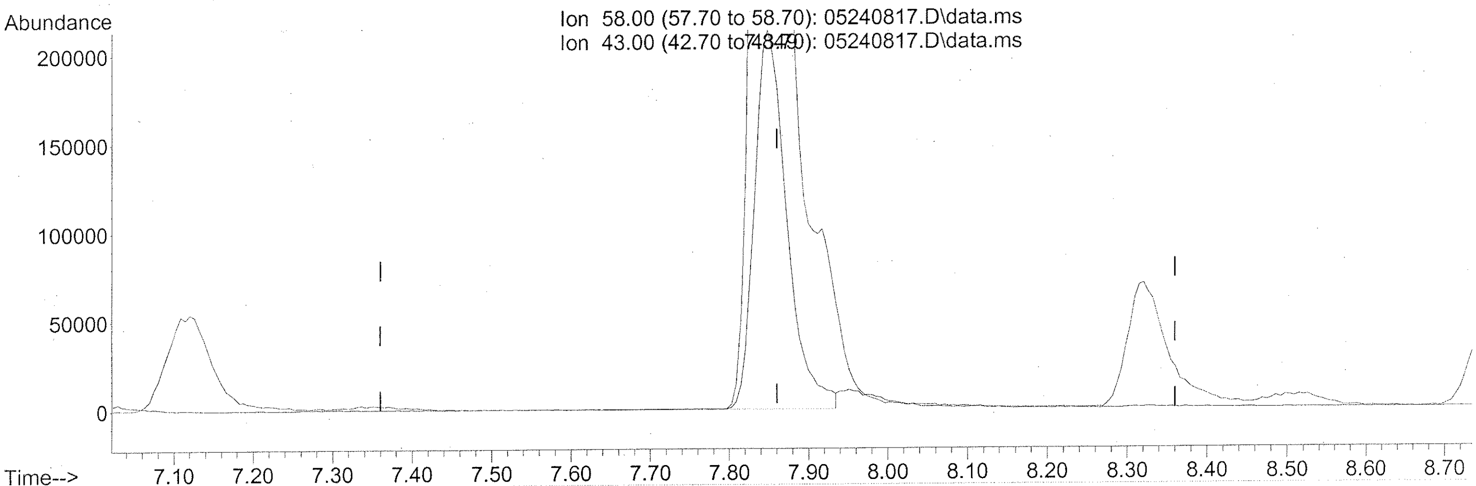
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	352.41#
0.00	0.00	0.00
0.00	0.00	0.00

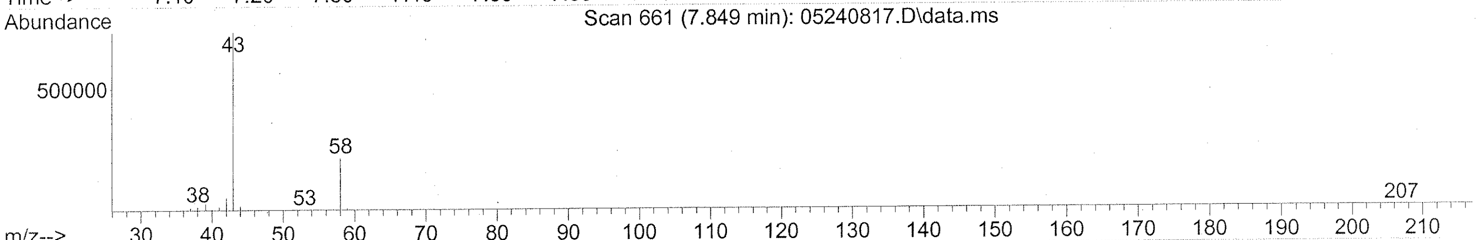
511

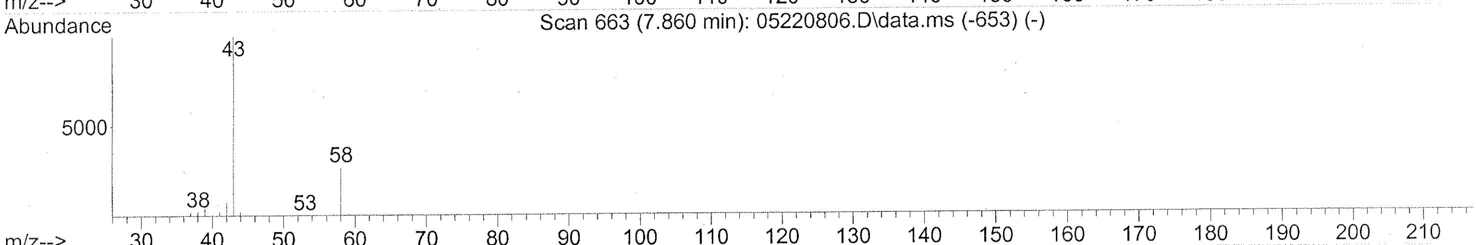
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801422-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 09:04:17 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

(13) Acetone (T)

7.849min (-0.011) 18.63ng m

response 606054

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	377.81#
0.00	0.00	0.00
0.00	0.00	0.00

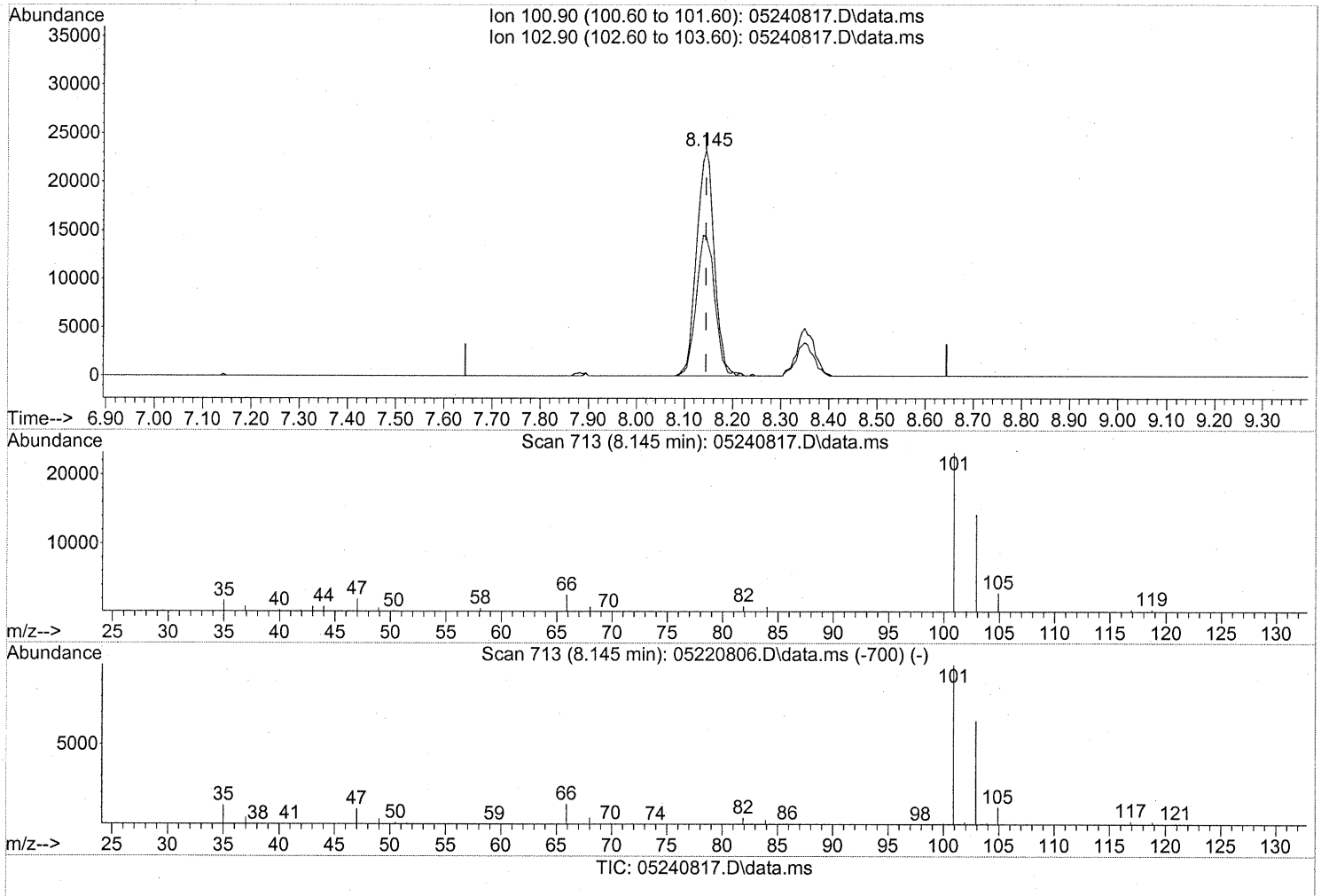
Int. 10% shoulder
pdt 5/29/08

Wb 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (+0.000) 0.79ng

response 59443

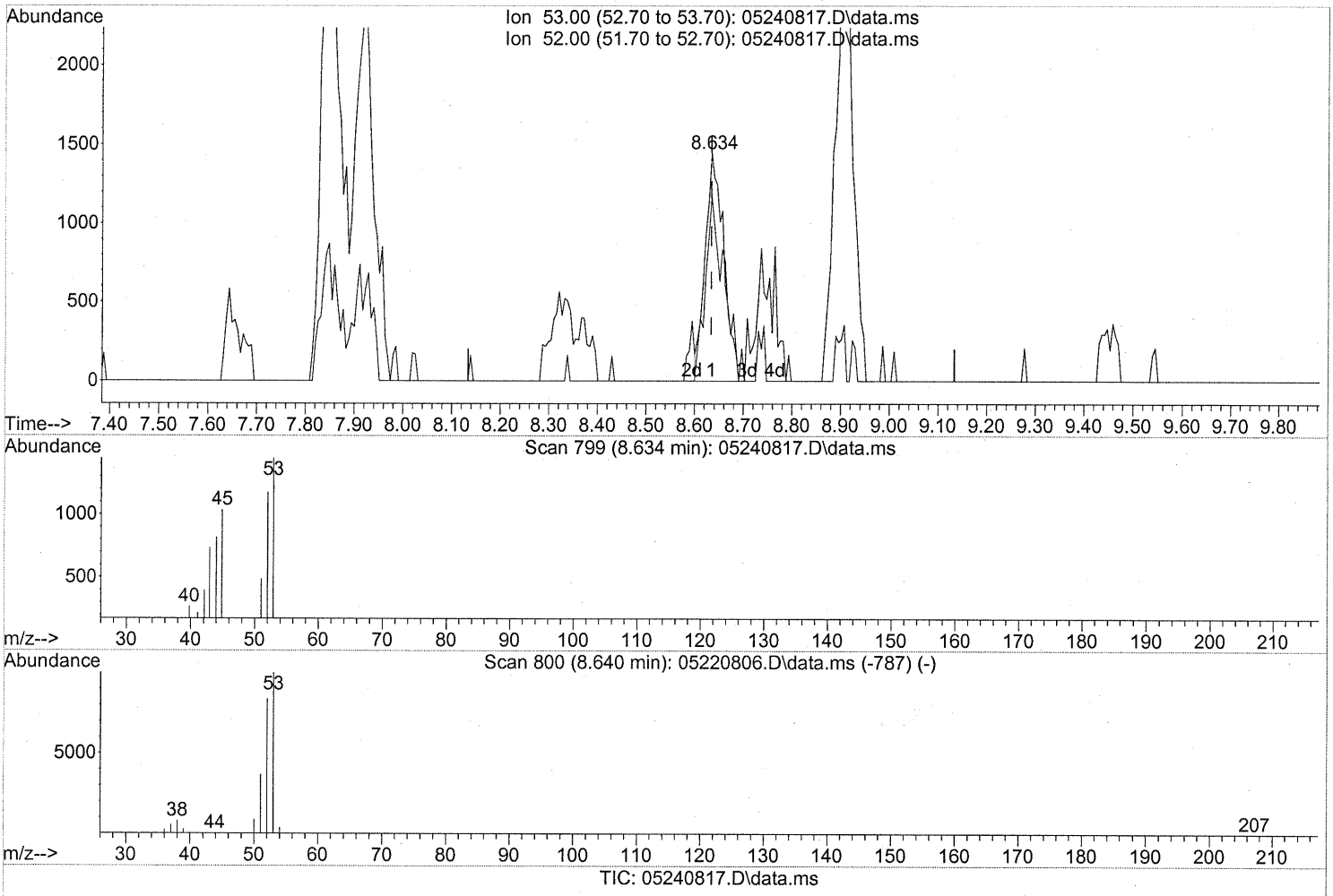
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.70
0.00	0.00	0.00
0.00	0.00	0.00

513

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(16) Acrylonitrile (T)

8.634min (+0.000) 0.08ng

response 3866

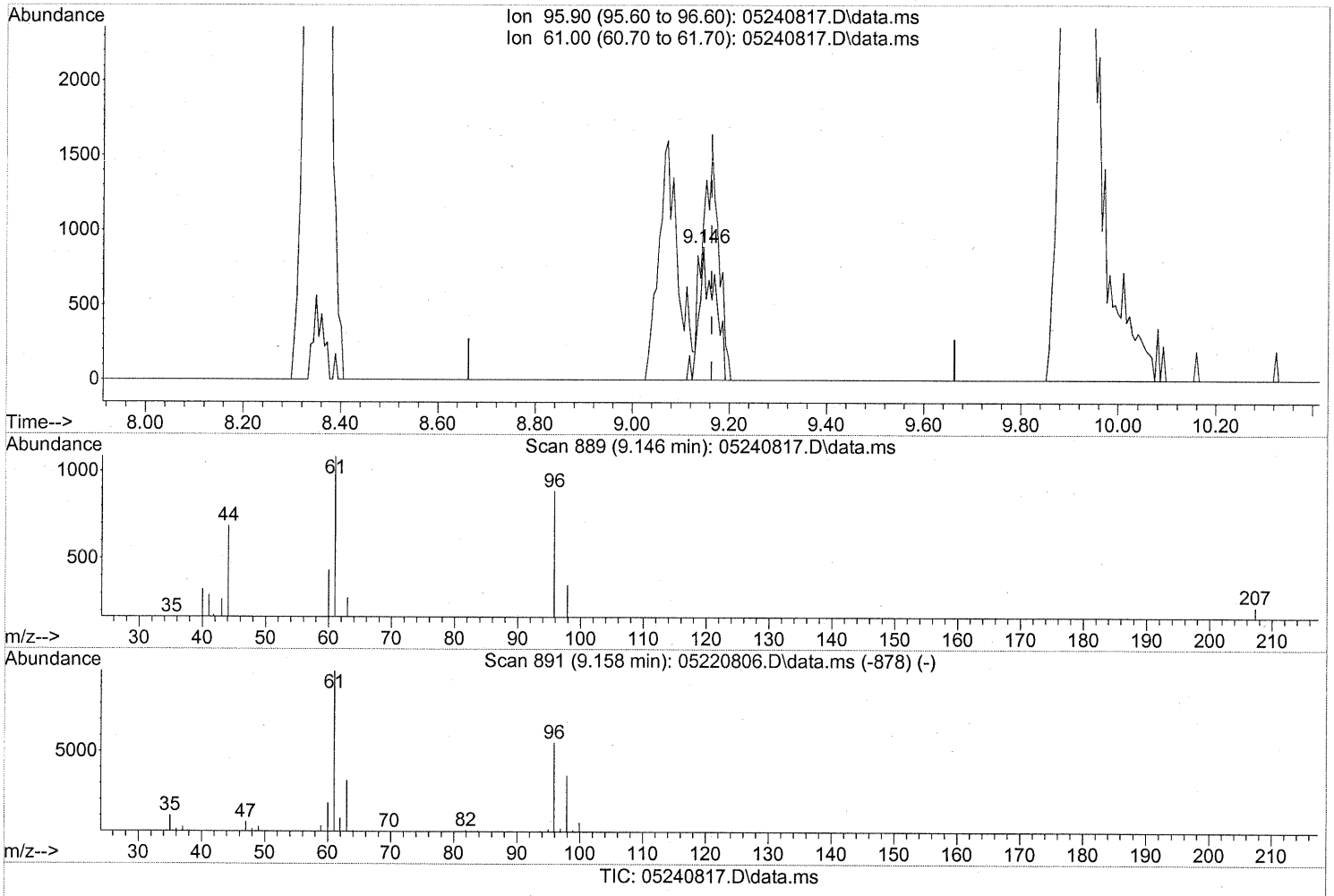
Ion	Exp%	Act%
53.00	100	100
52.00	82.50	78.30
0.00	0.00	0.00
0.00	0.00	0.00

514

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(17) 1,1-Dichloroethene (T)

9.146min (-0.017) 0.06ng

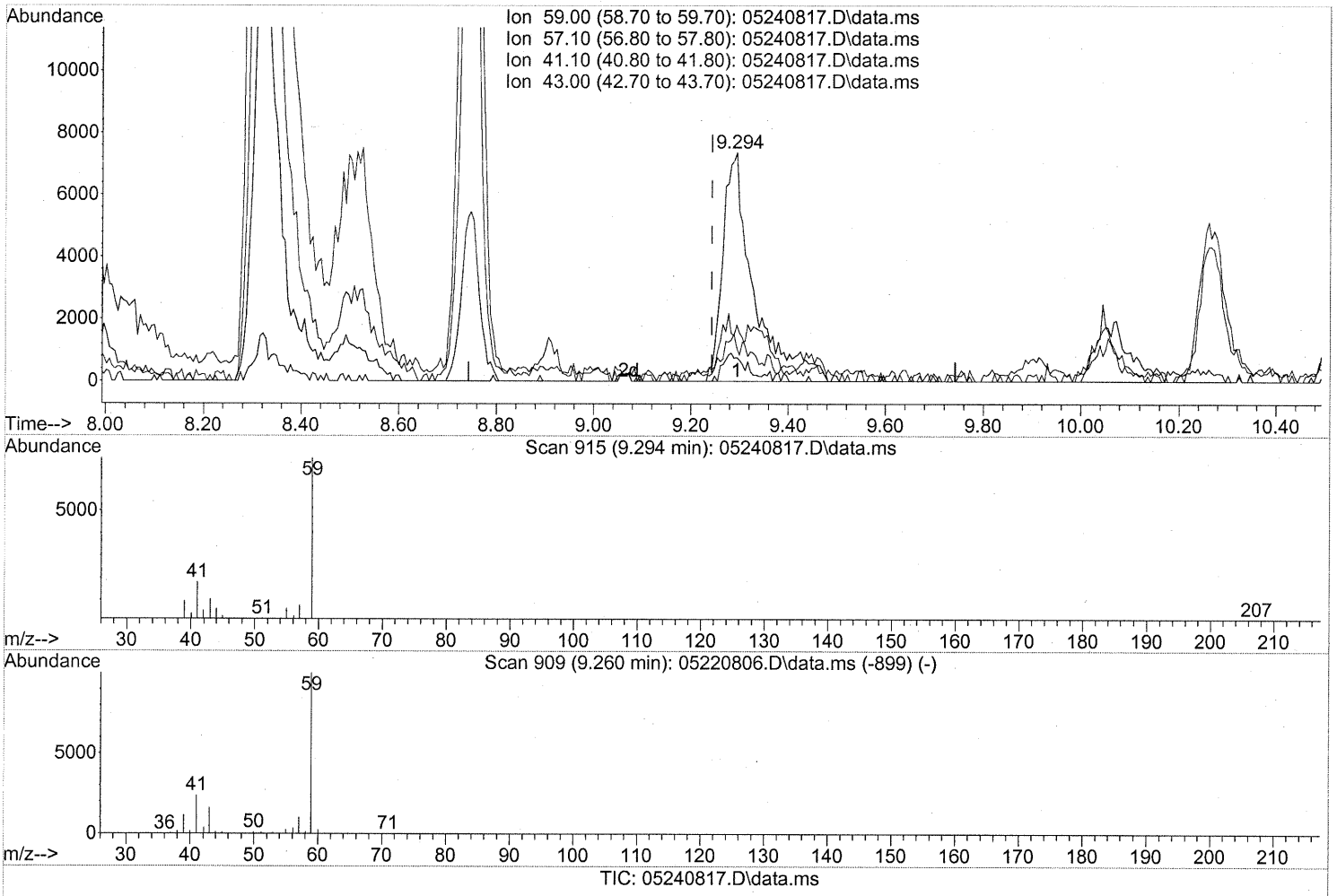
response 1974

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	186.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(18) tert-Butanol (T)

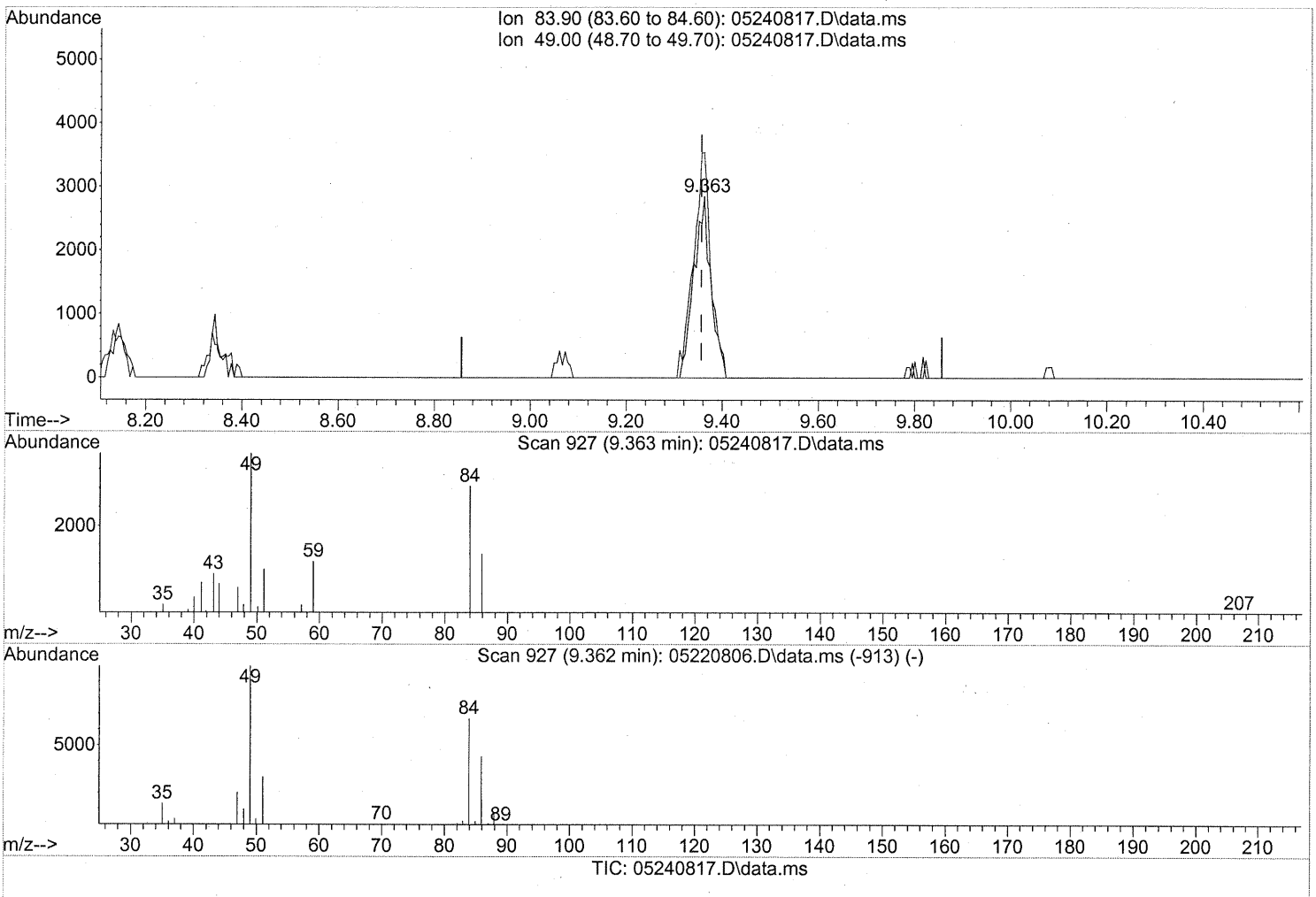
9.294min (+0.051) 0.37ng

response 32575

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.71
41.10	20.10	22.89
43.00	12.30	8.79

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(19) Methylene Chloride (T)

9.363min (+0.006) 0.20ng

response 7112

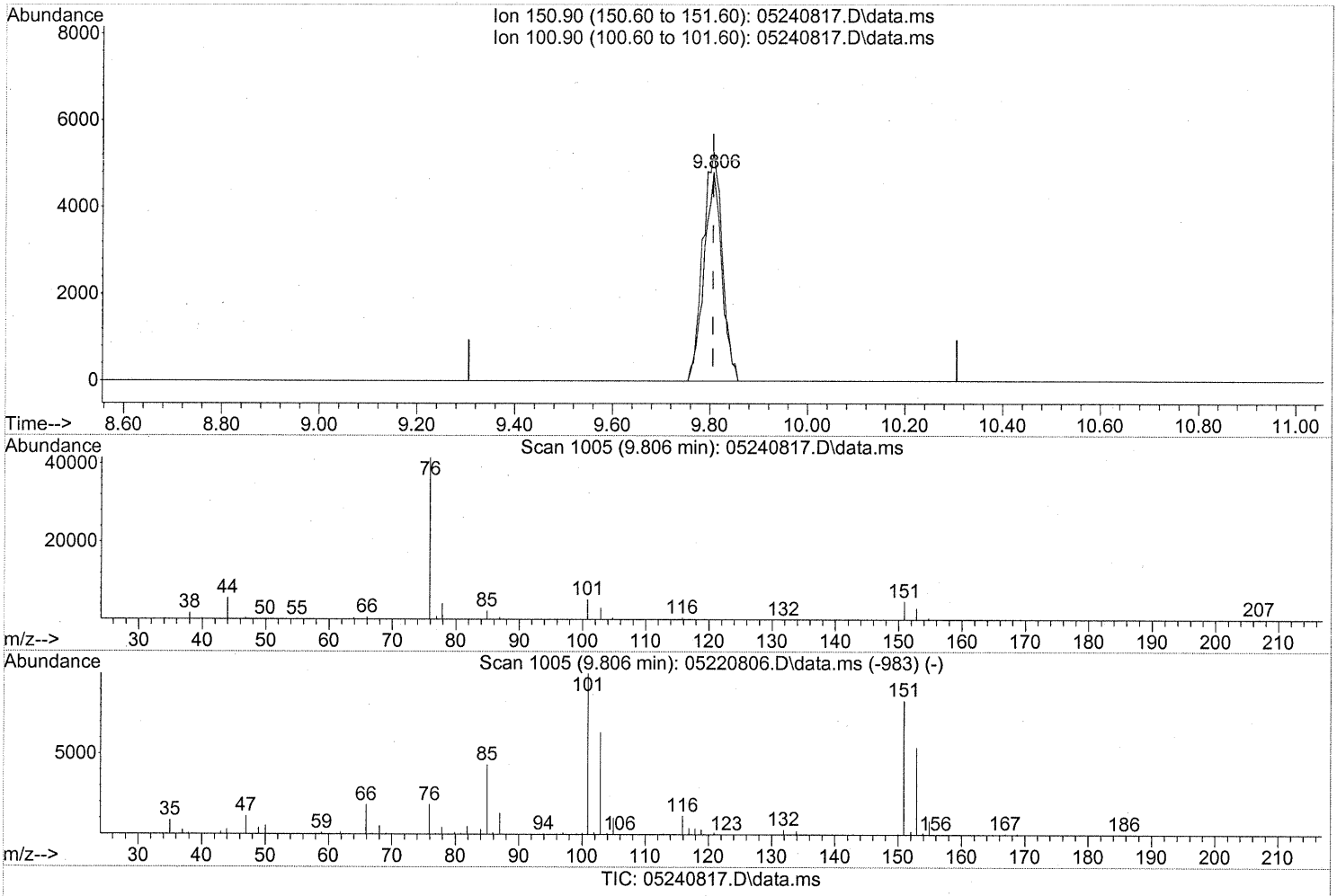
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	126.66#
0.00	0.00	0.00
0.00	0.00	0.00

517

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (+0.000) 0.35ng

response 12099

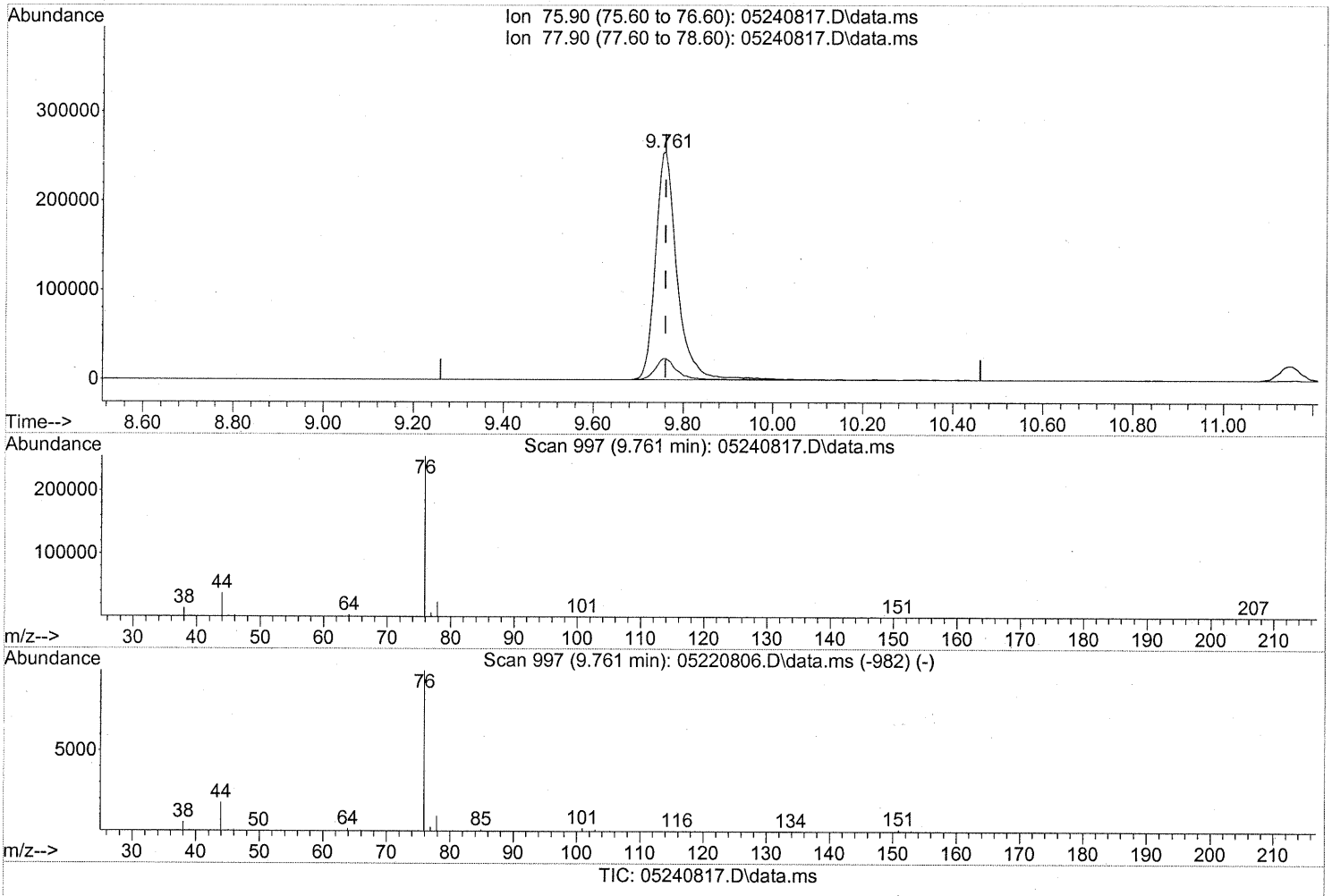
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	119.02
0.00	0.00	0.00
0.00	0.00	0.00

518

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(22) Carbon Disulfide (T)

9.761min (+0.000) 6.14ng

response 847649

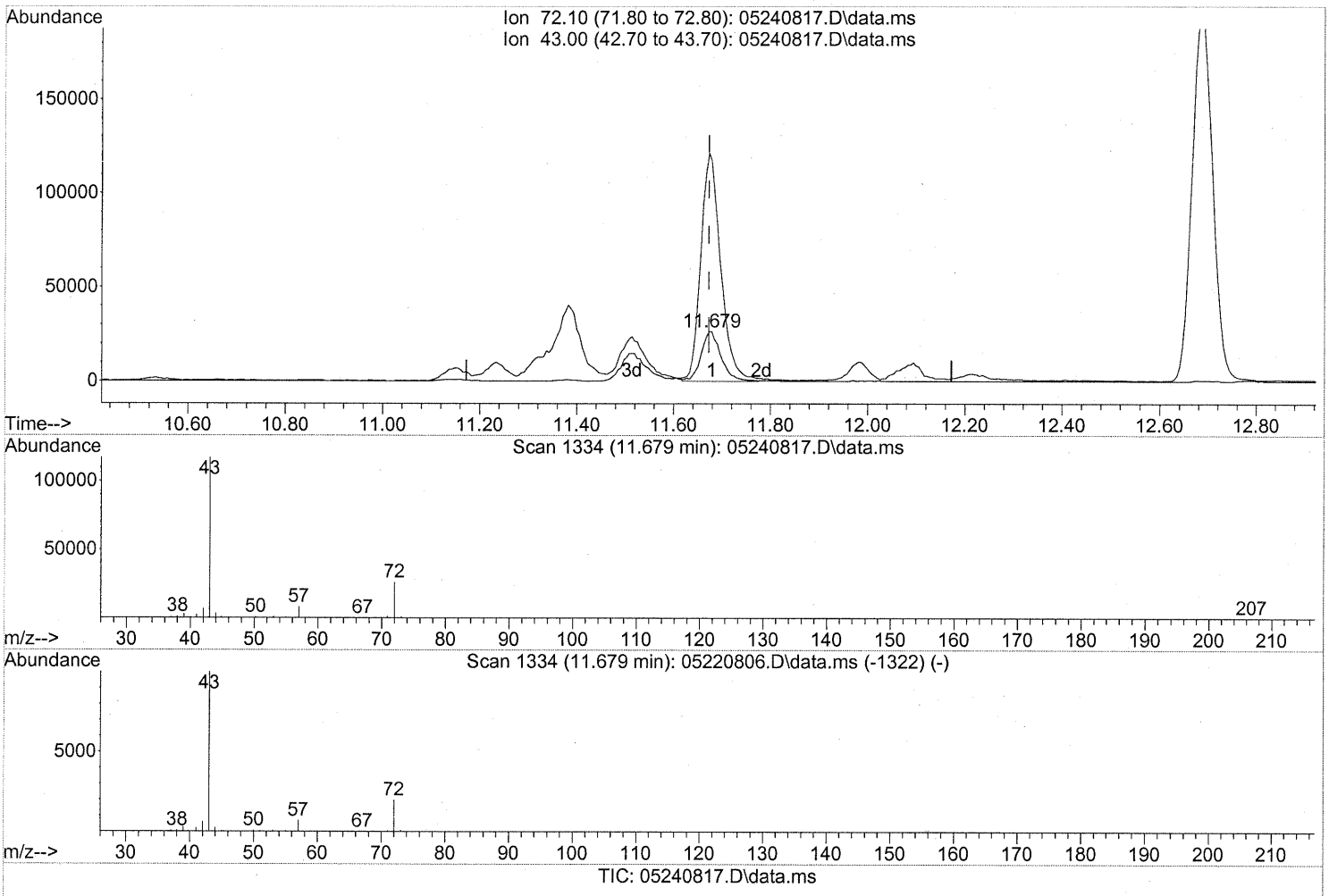
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.90
0.00	0.00	0.00
0.00	0.00	0.00

519

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 3.15ng

response 74745

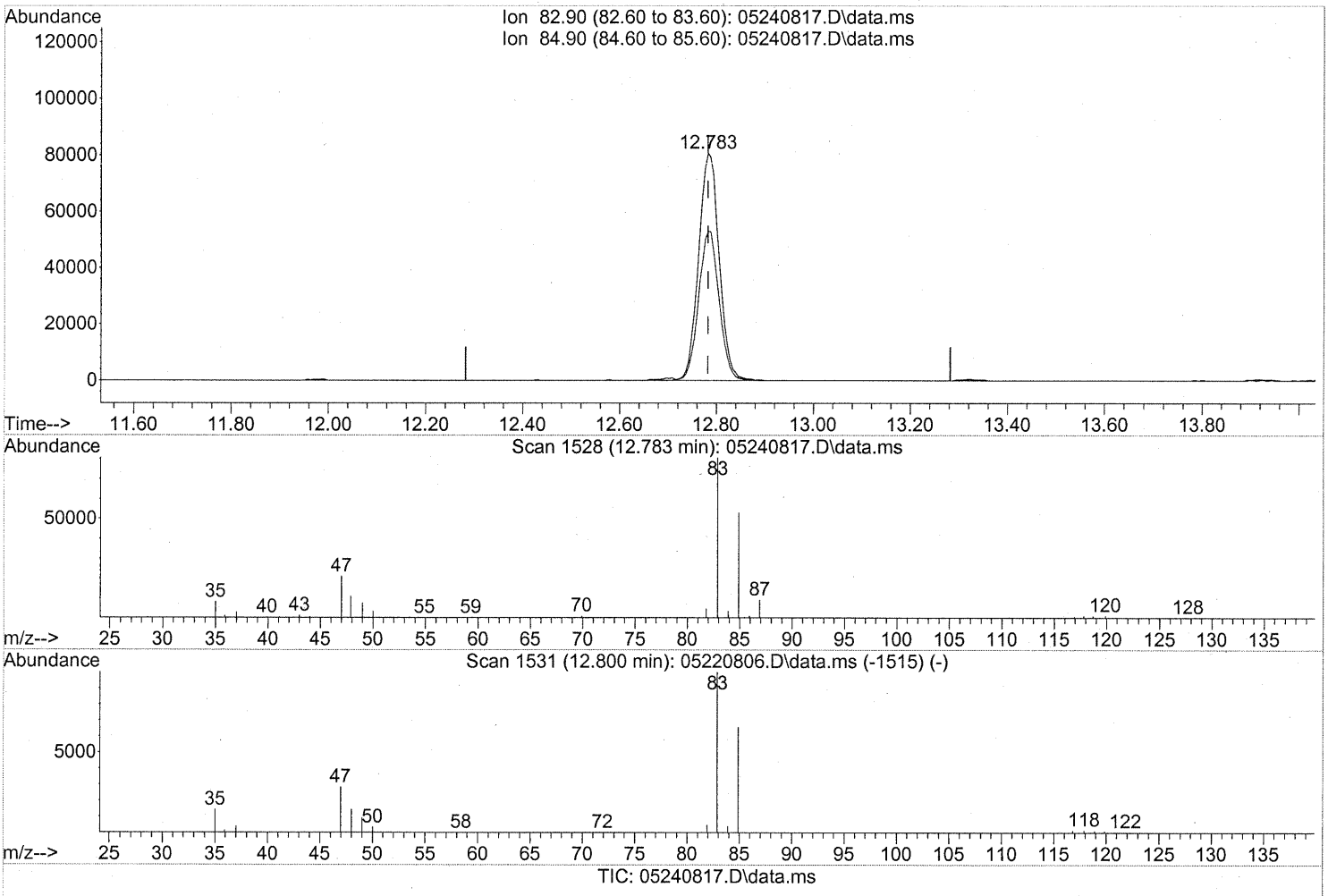
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	459.51#
0.00	0.00	0.00
0.00	0.00	0.00

520

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(32) Chloroform (T)

12.783min (+0.000) 4.30ng

response 236904

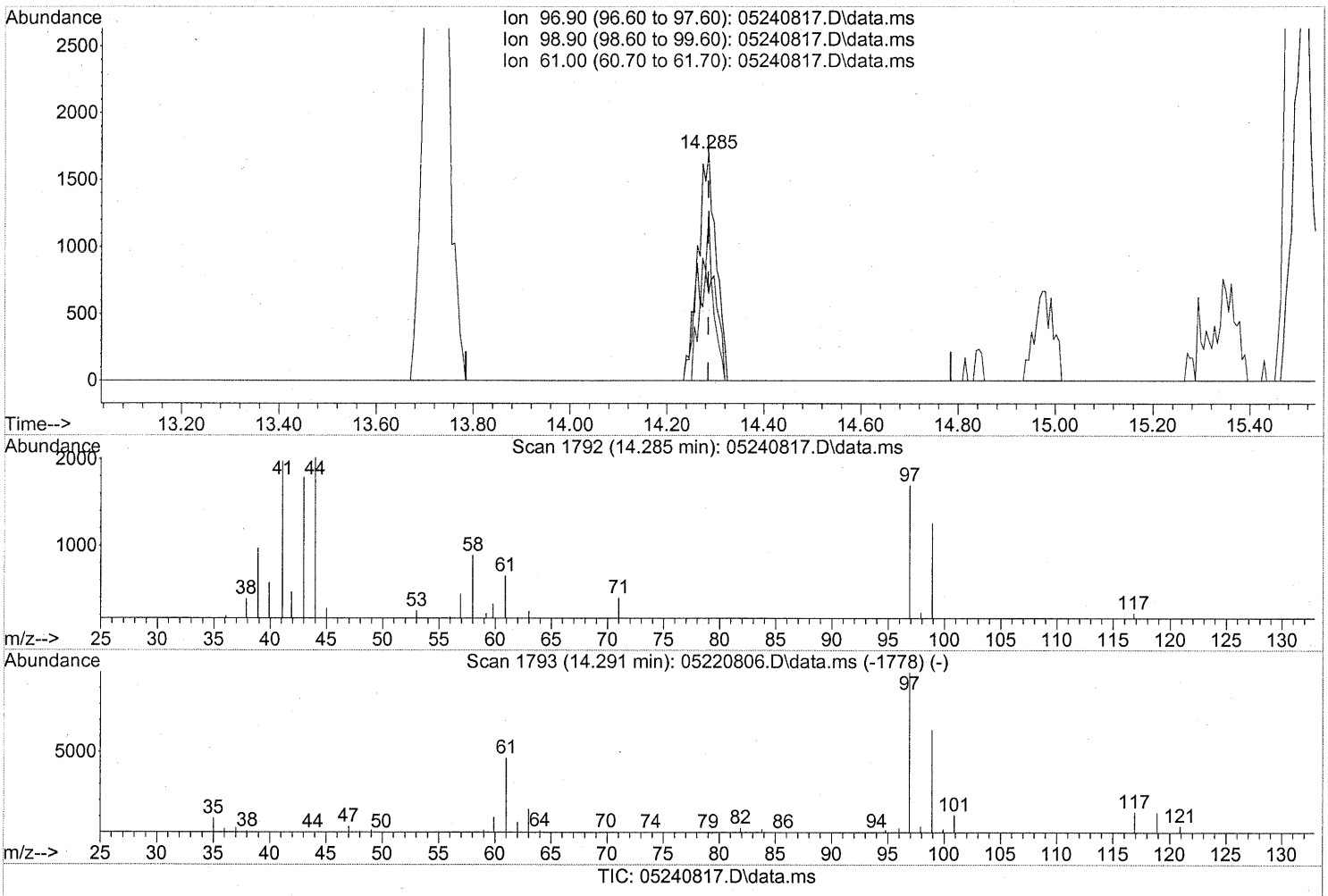
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.03
0.00	0.00	0.00
0.00	0.00	0.00

521

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.285min (+0.000) 0.07ng

response 4381

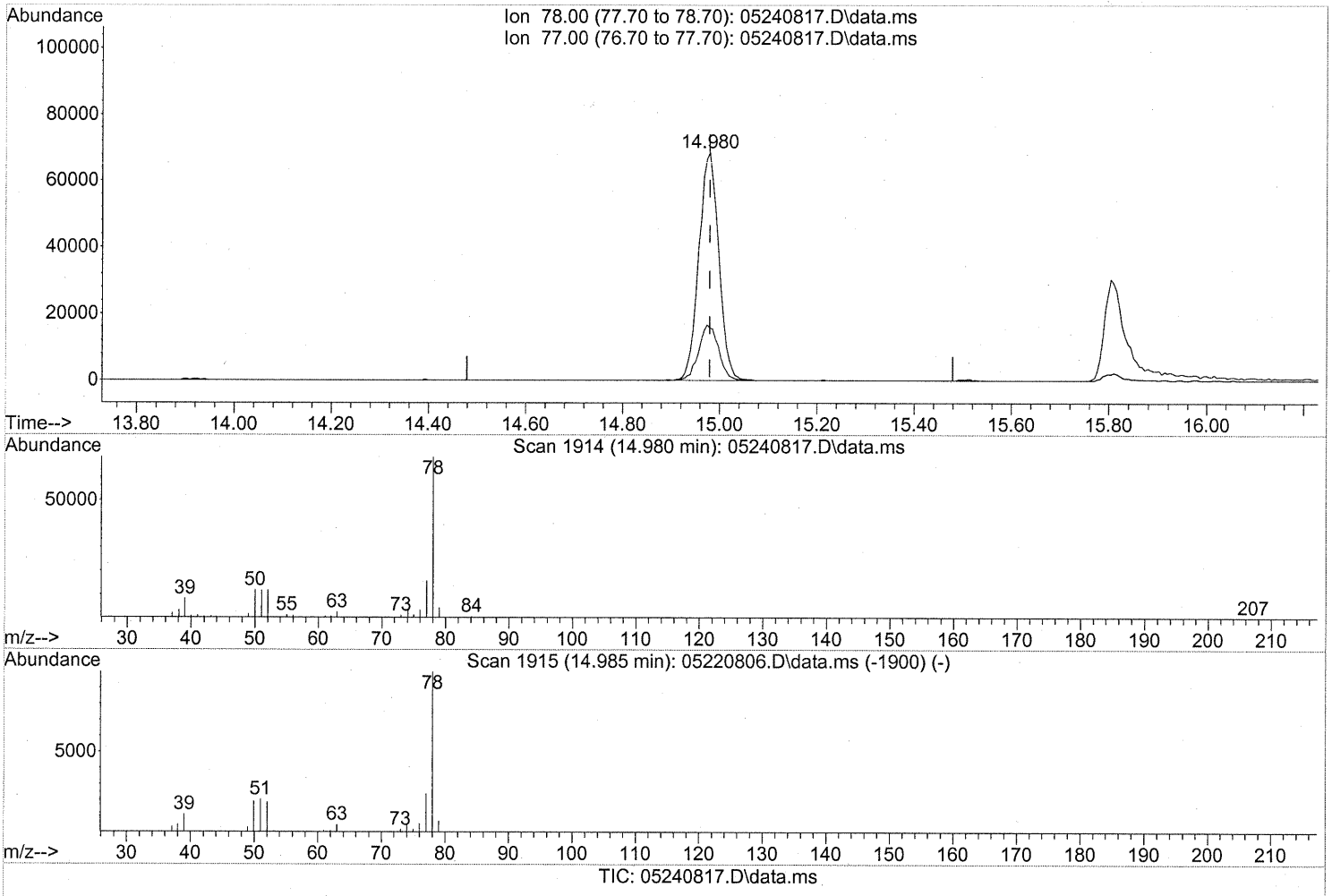
Ion	Exp%	Act%
96.90	100	100
98.90	63.40	45.93
61.00	50.50	41.52
0.00	0.00	0.00

522

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(41) Benzene (T)

14.980min (+0.000) 1.43ng

response 192860

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
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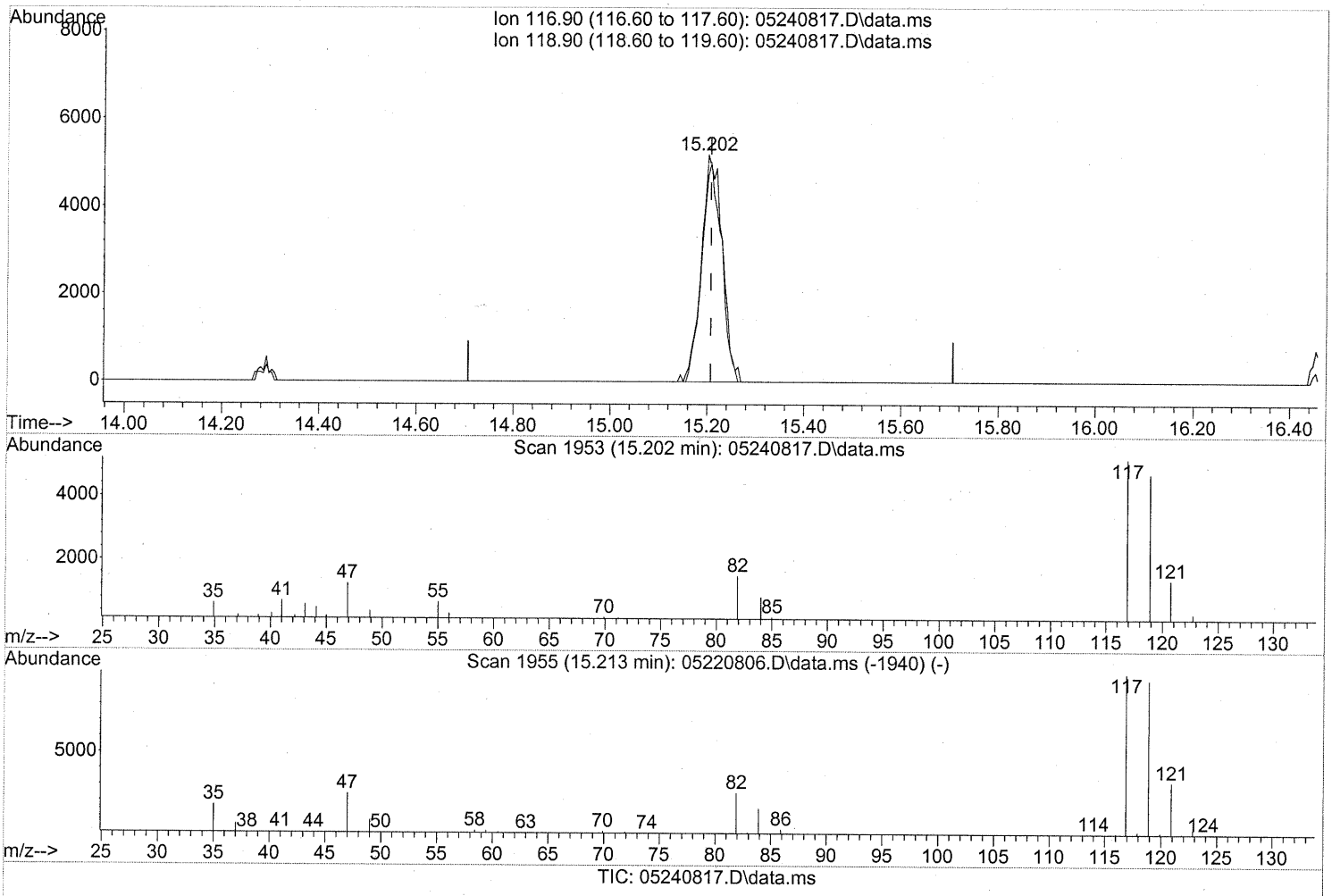
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(42) Carbon Tetrachloride (T)

15.202min (-0.006) 0.30ng

response 15493

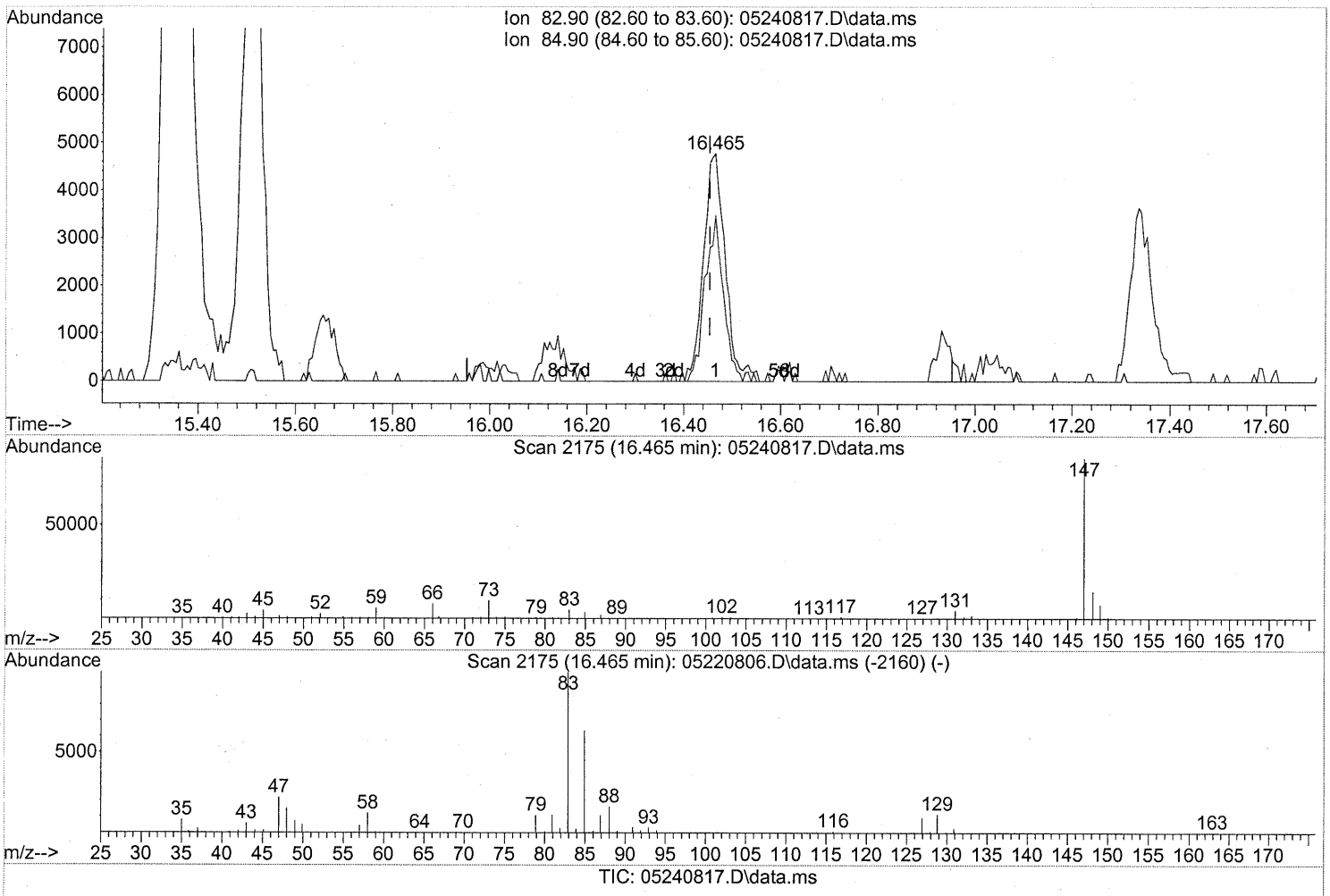
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	92.20
0.00	0.00	0.00
0.00	0.00	0.00

524

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(46) Bromodichloromethane (T)

16.465min (+0.011) 0.33ng

response 14944

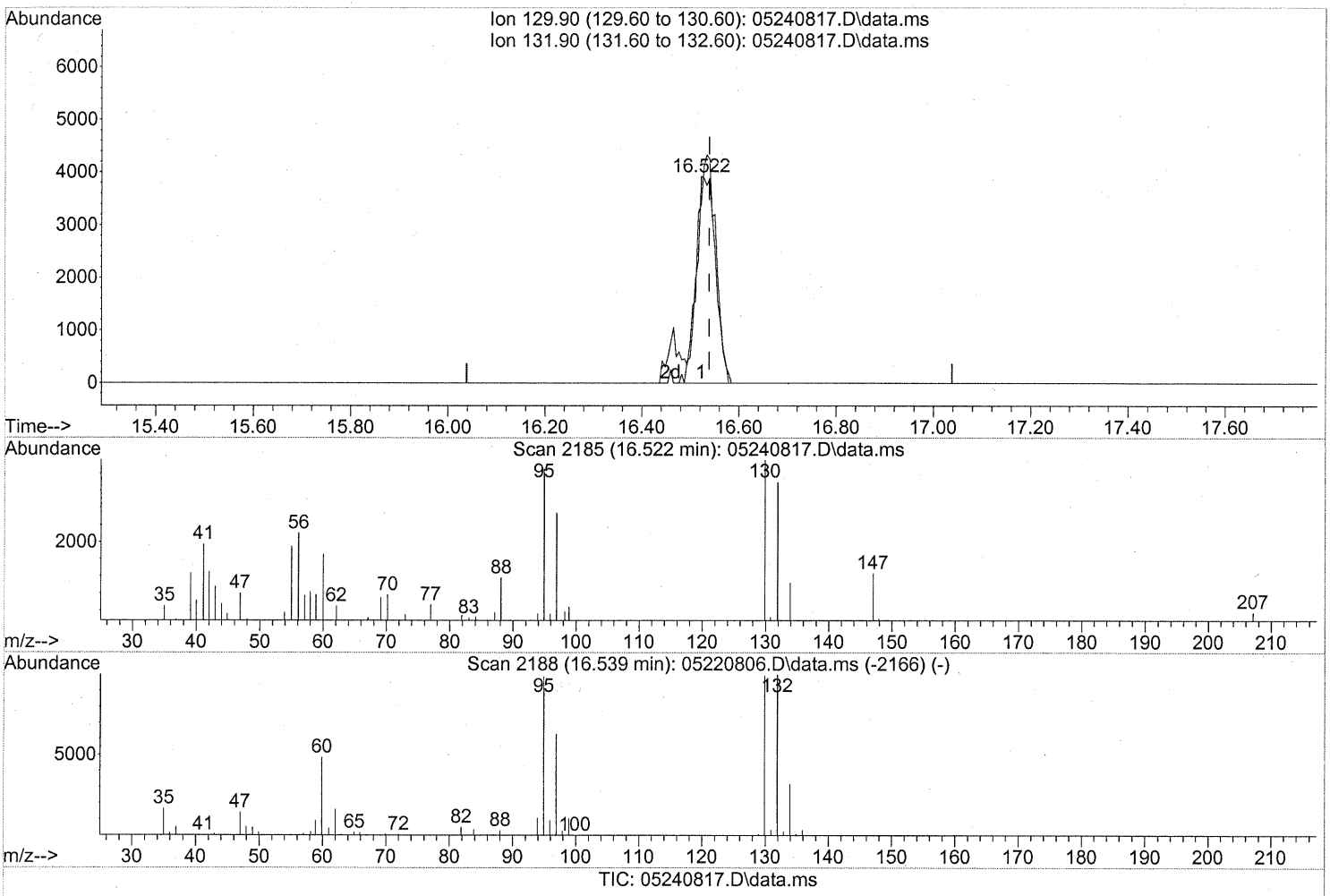
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	61.15
0.00	0.00	0.00
0.00	0.00	0.00

525

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(47) Trichloroethene (T)

16.522min (-0.017) 0.26ng

response 10701

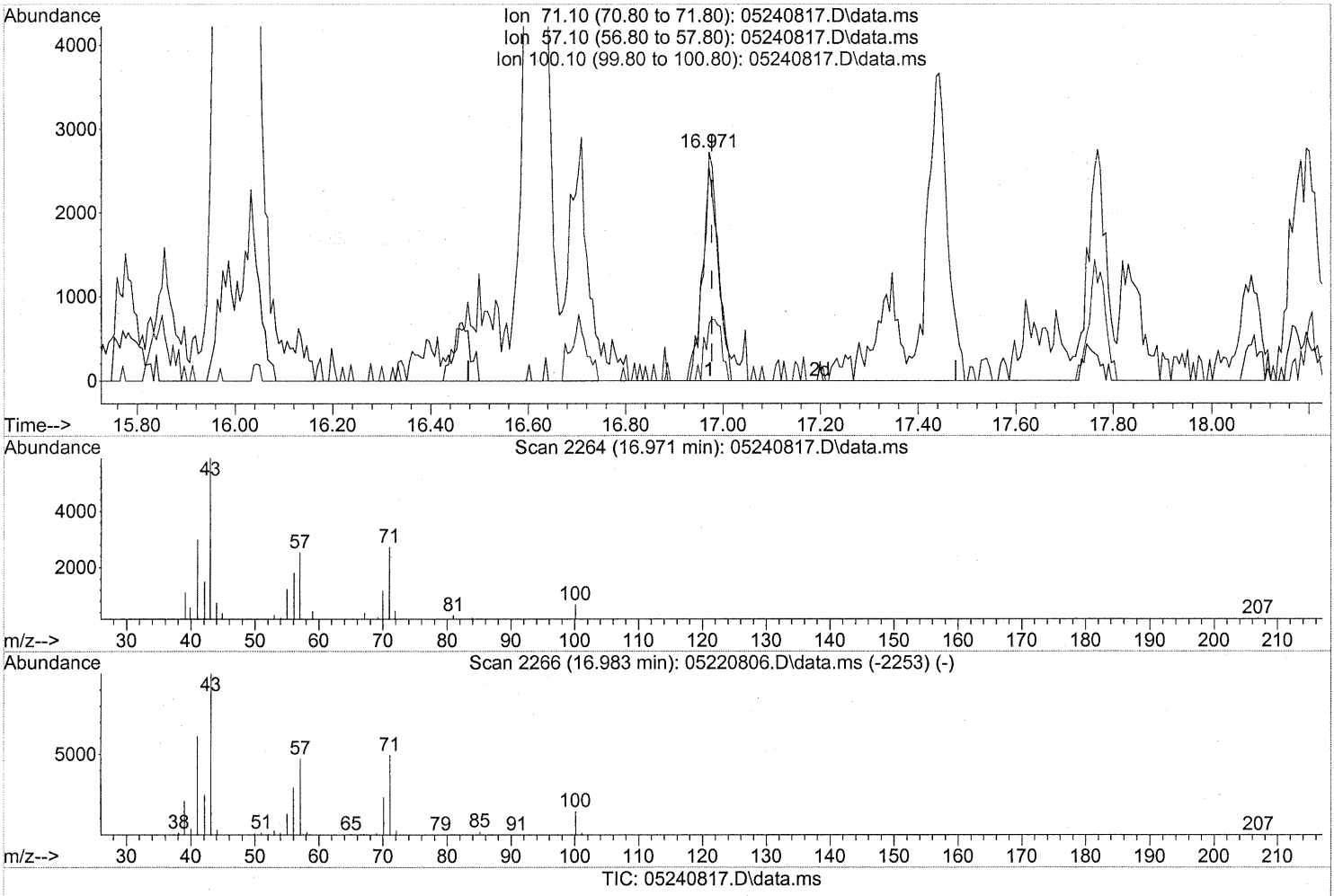
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	107.56
0.00	0.00	0.00
0.00	0.00	0.00

526

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(51) n-Heptane (T)

16.971min (-0.006) 0.16ng

response 5811

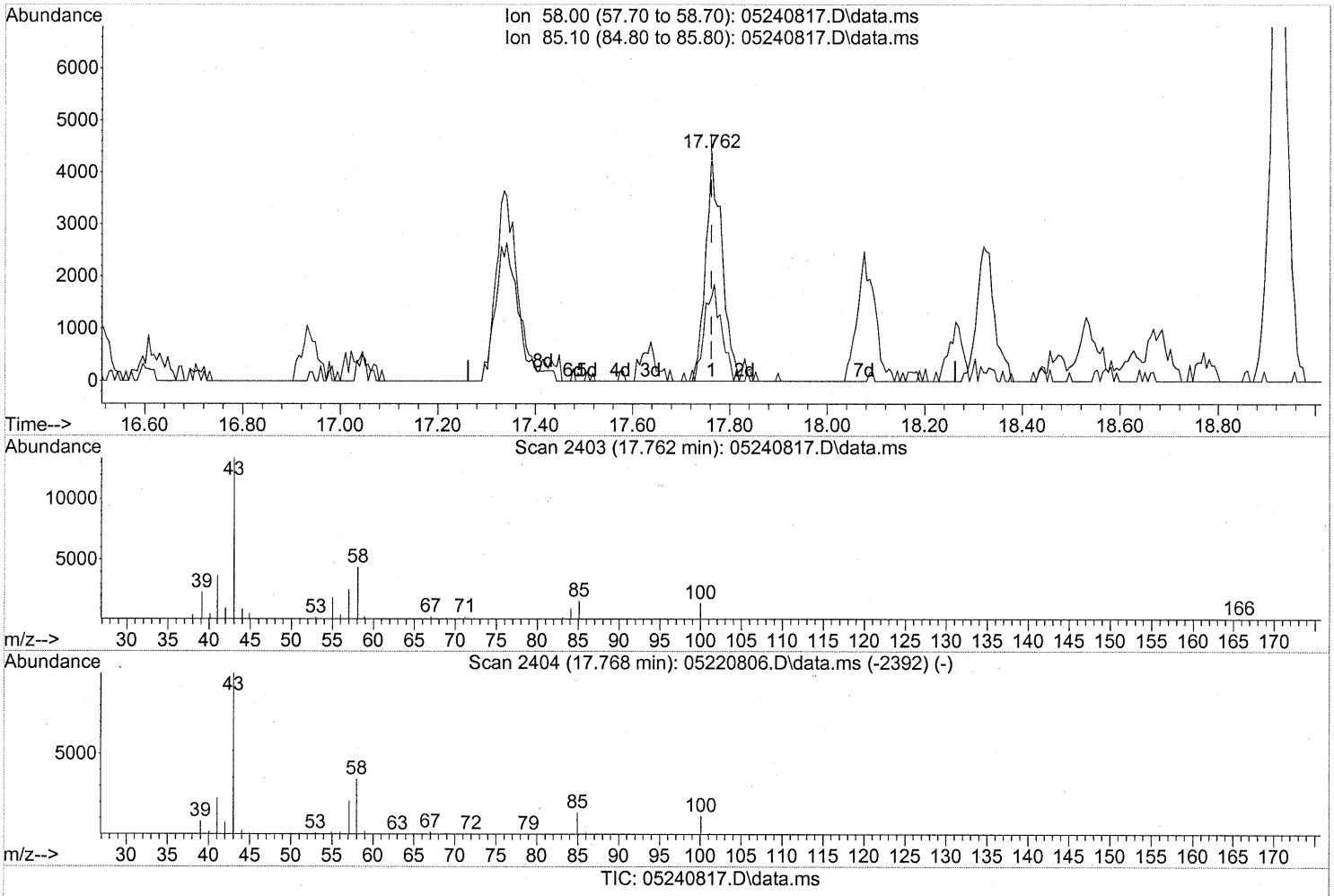
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	103.87#
100.10	30.10	29.12
0.00	0.00	0.00

527

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

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

17.762min (+0.000) 0.29ng

response 10203

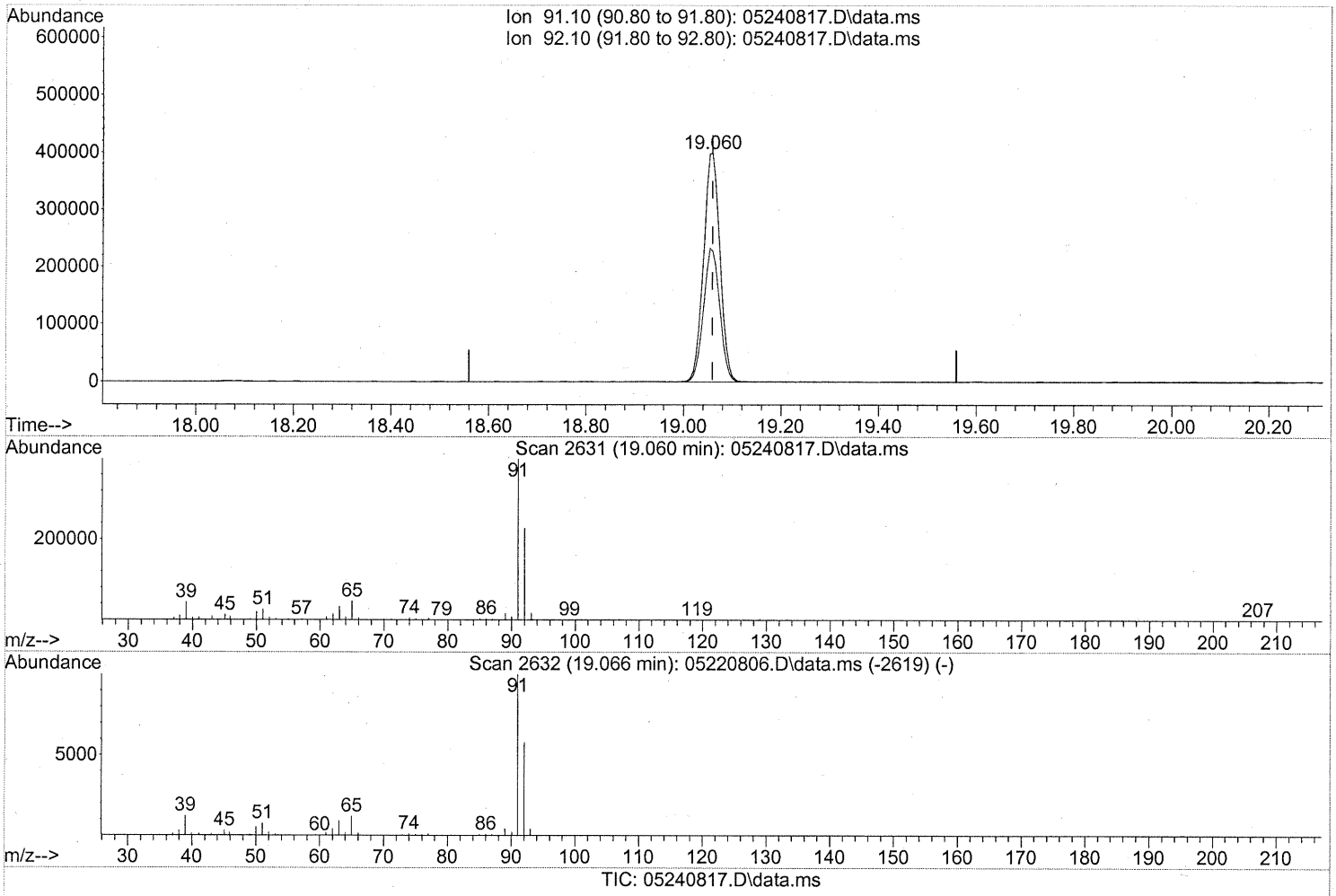
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	44.35
0.00	0.00	0.00
0.00	0.00	0.00

528

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 6.50ng

response 931979

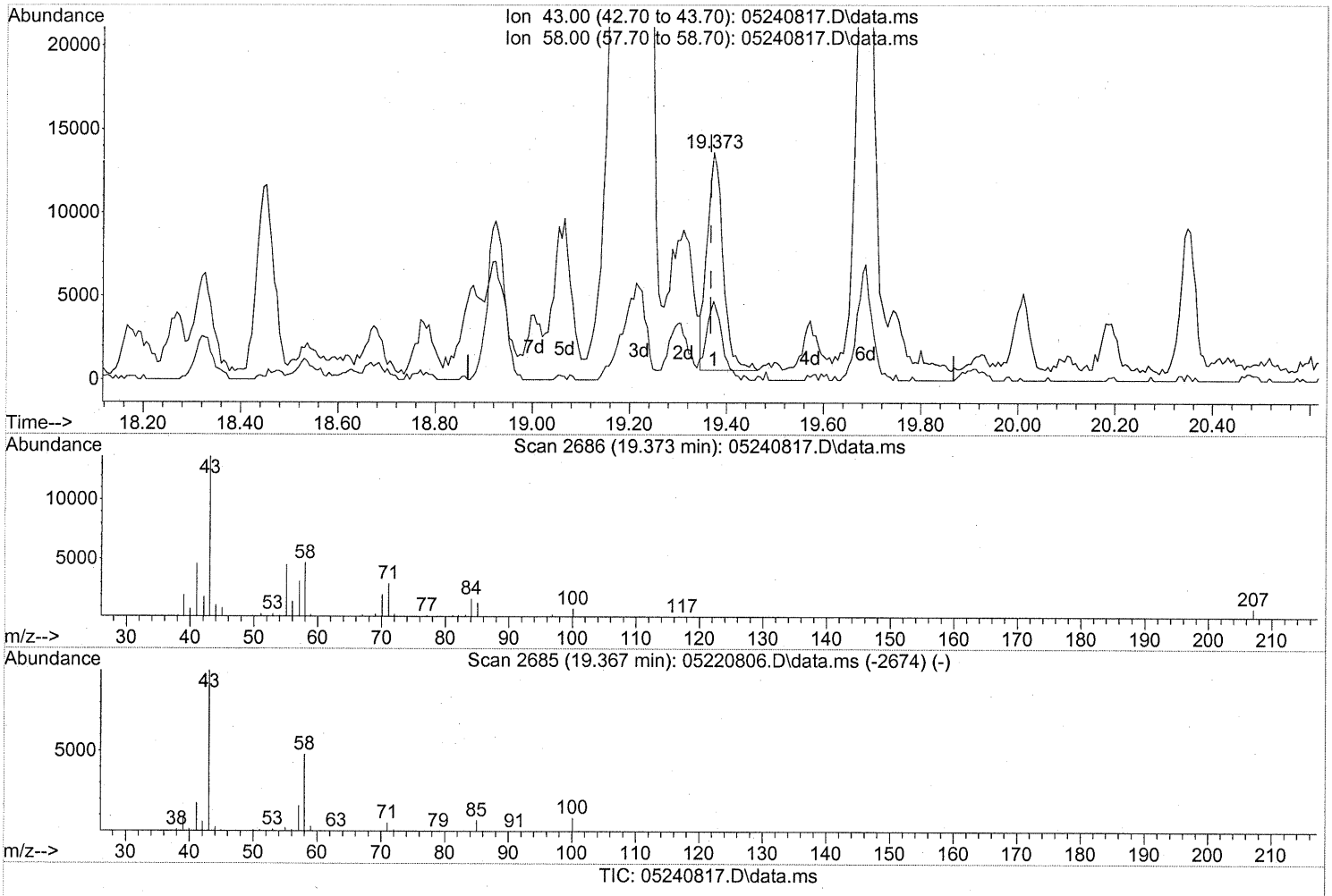
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.71
0.00	0.00	0.00
0.00	0.00	0.00

529

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.30ng

response 29735

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	36.45#
0.00	0.00	0.00
0.00	0.00	0.00

530

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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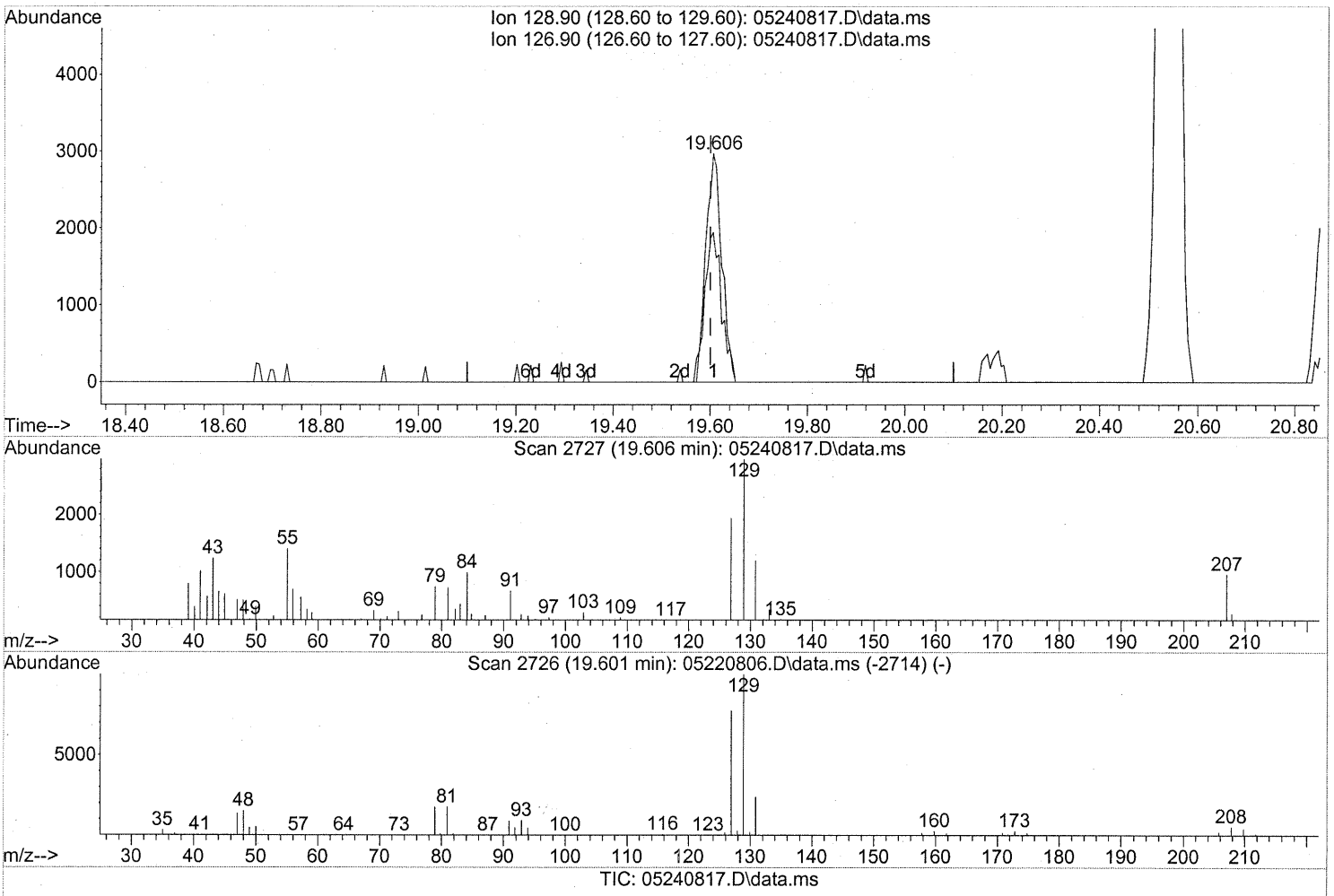

TIC: 05240817.D\data.ms

(60) Dibromochloromethane (T)

19.606min (+0.006) 0.18ng

response 6797

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	67.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
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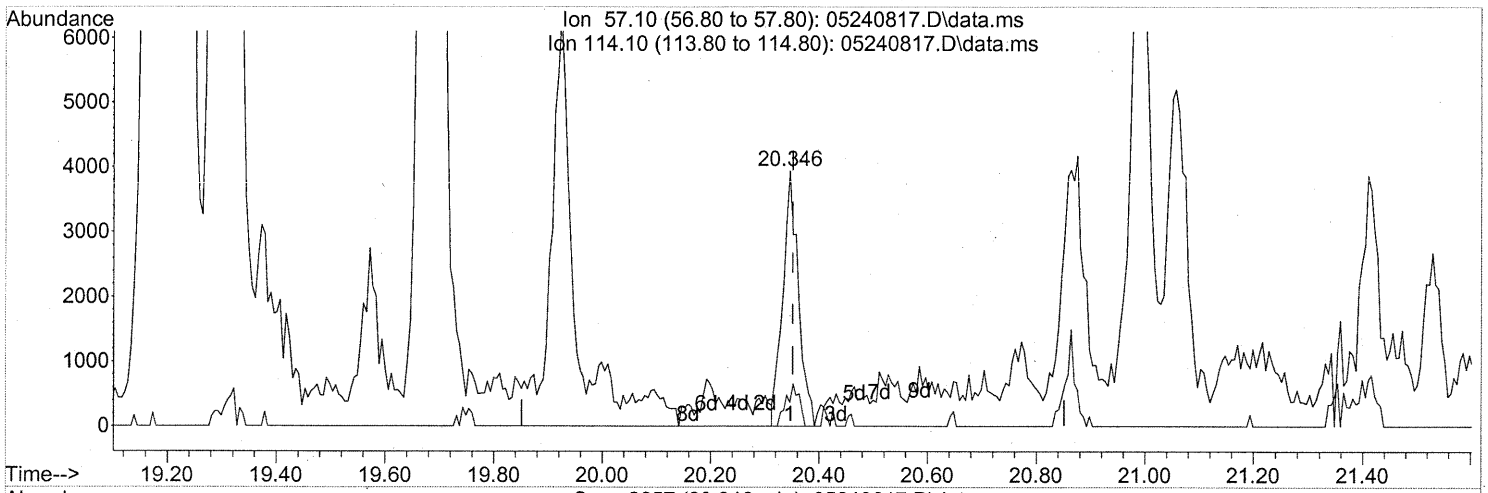

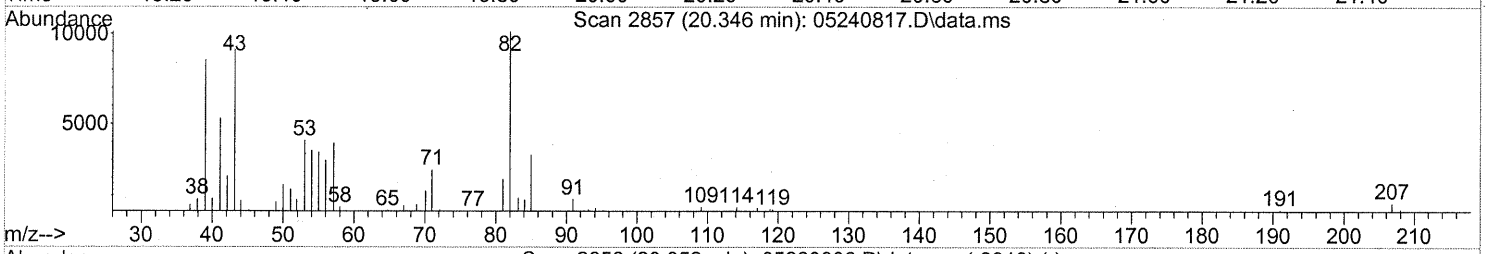

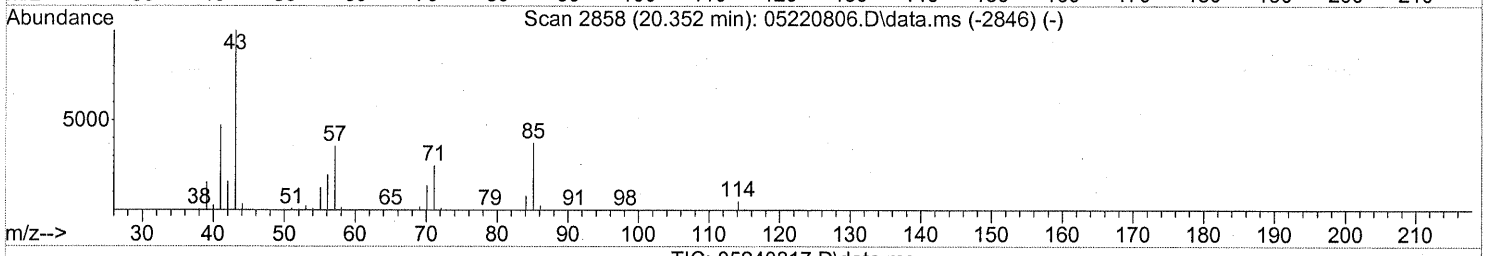

TIC: 05240817.D\data.ms

(63) n-Octane (T)

20.346min (-0.006) 0.25ng

response 7826

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	13.70
0.00	0.00	0.00
0.00	0.00	0.00

532

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
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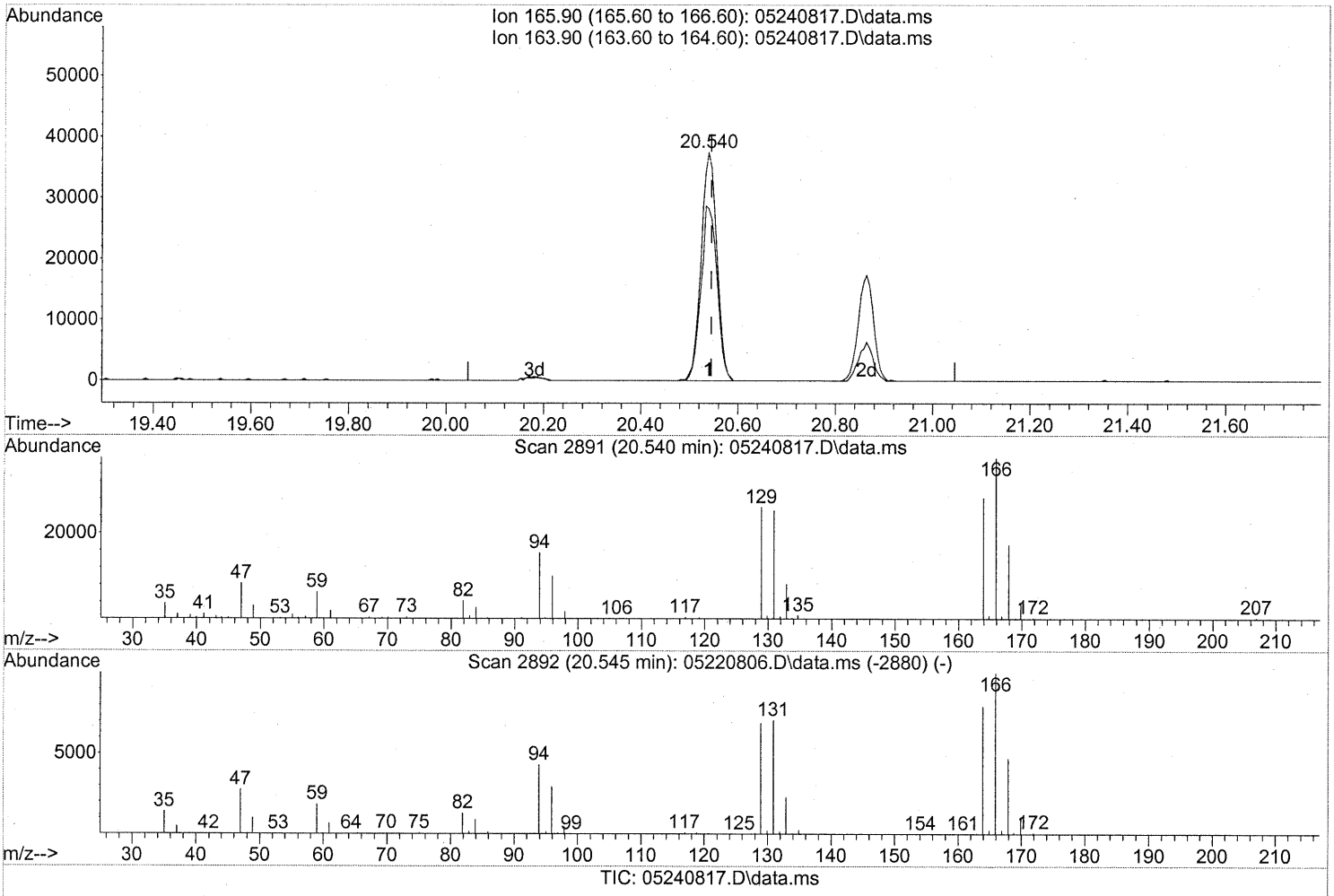

TIC: 05240817.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.97ng

response 83735

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
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Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
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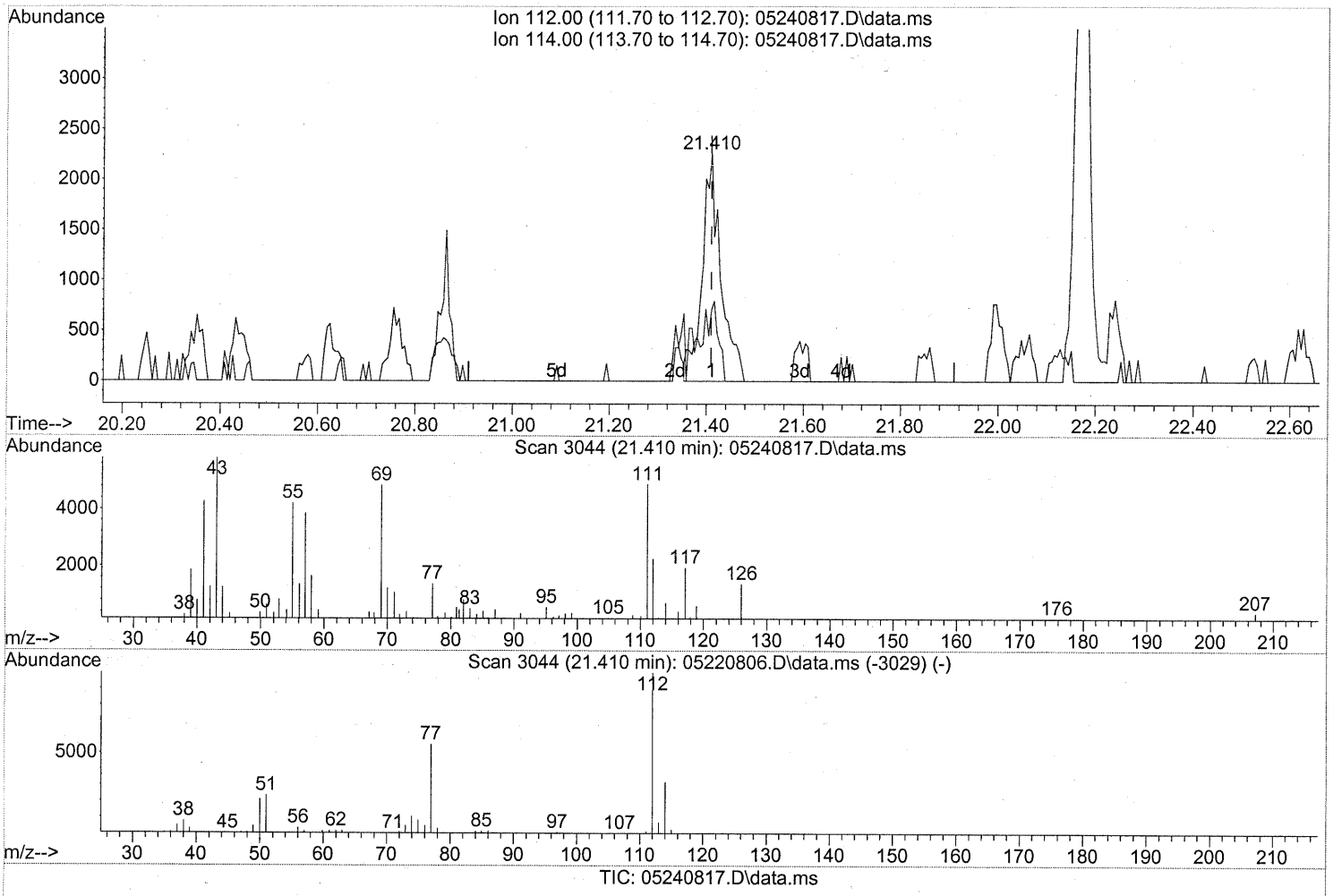
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(65) Chlorobenzene (T)

21.410min (+0.000) 0.06ng

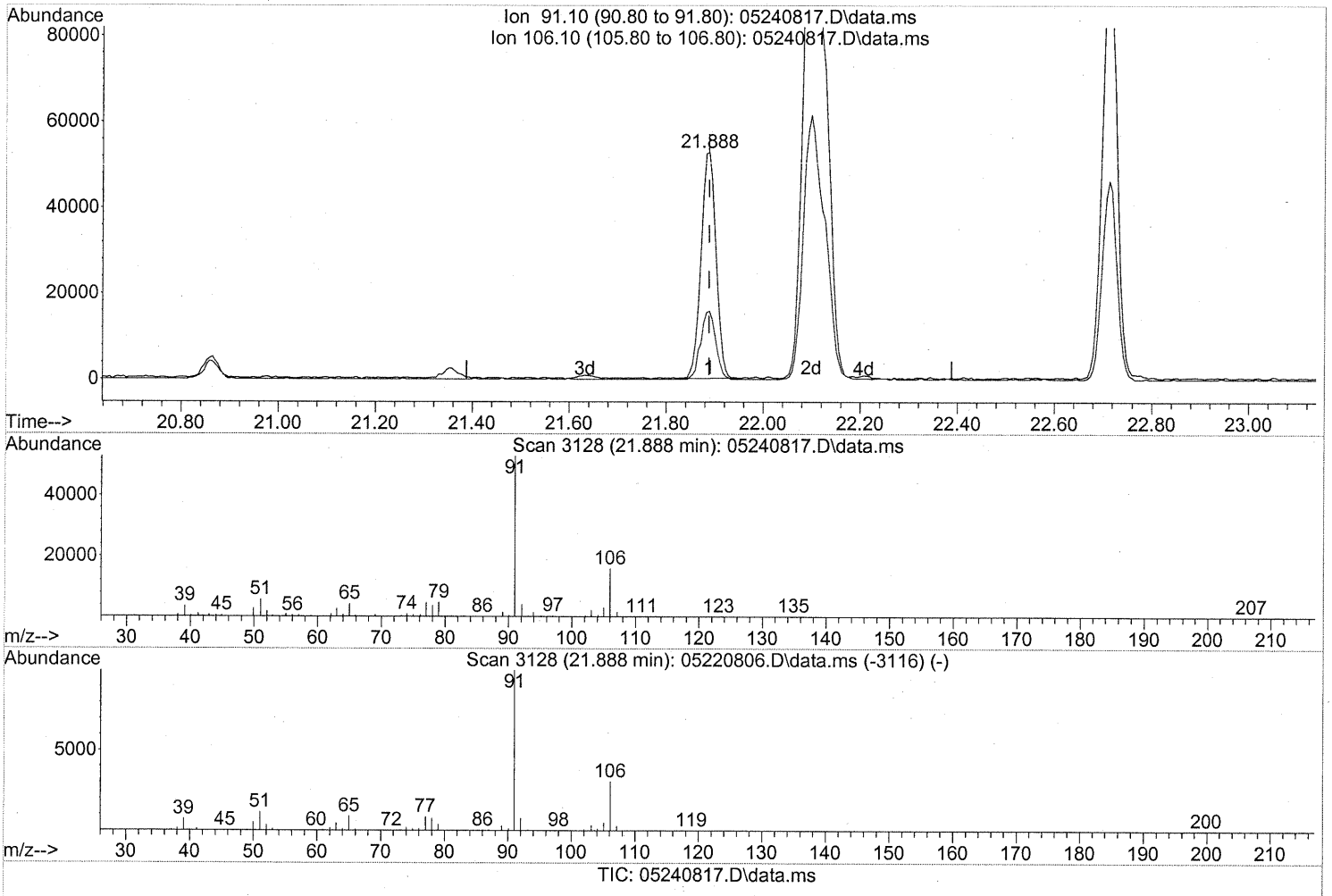
response 6035

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	23.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(66) Ethylbenzene (T)

21.888min (+0.000) 0.68ng

response 112356

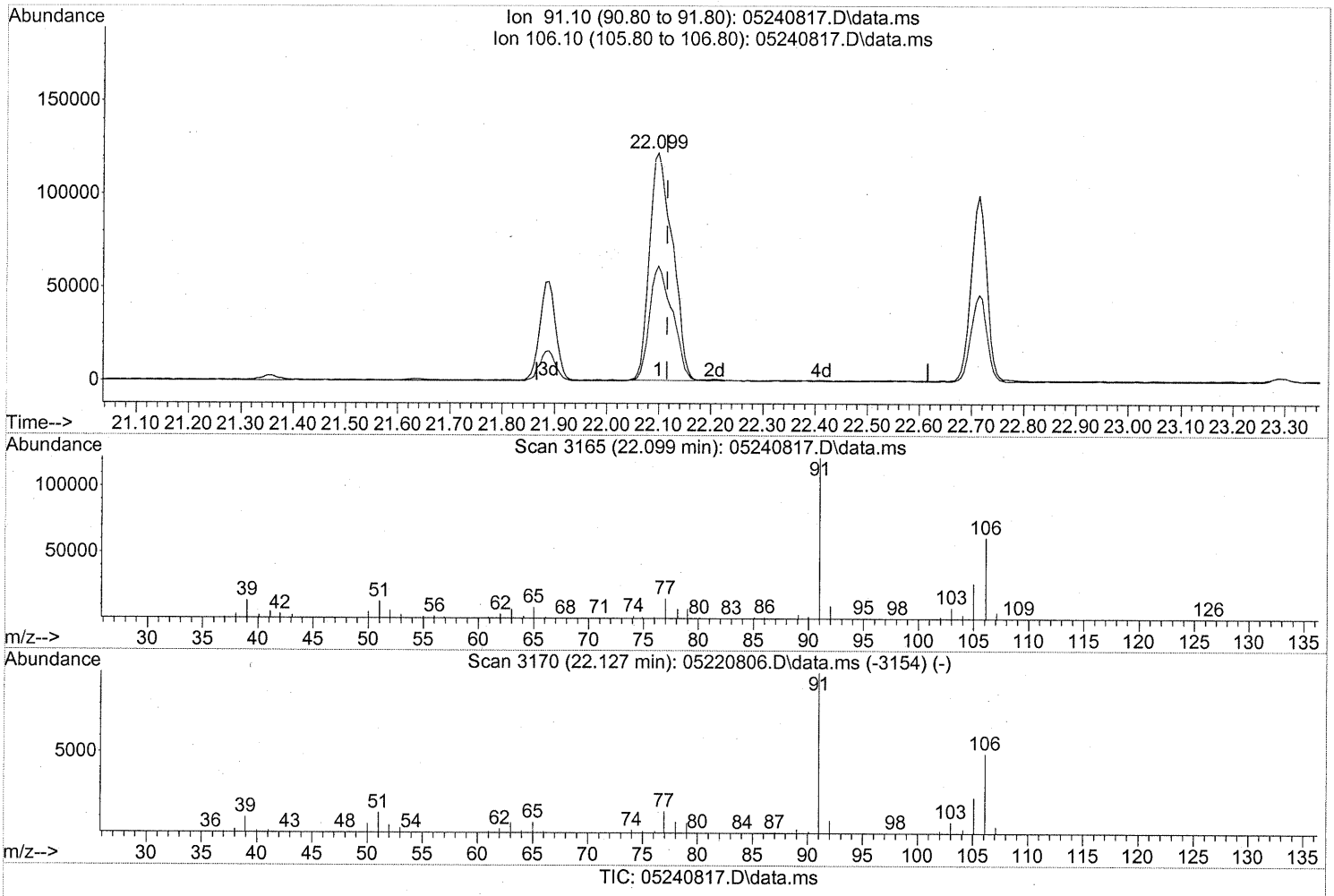
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.34
0.00	0.00	0.00
0.00	0.00	0.00

535

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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

22.099min (-0.017) 3.41ng

response 374954

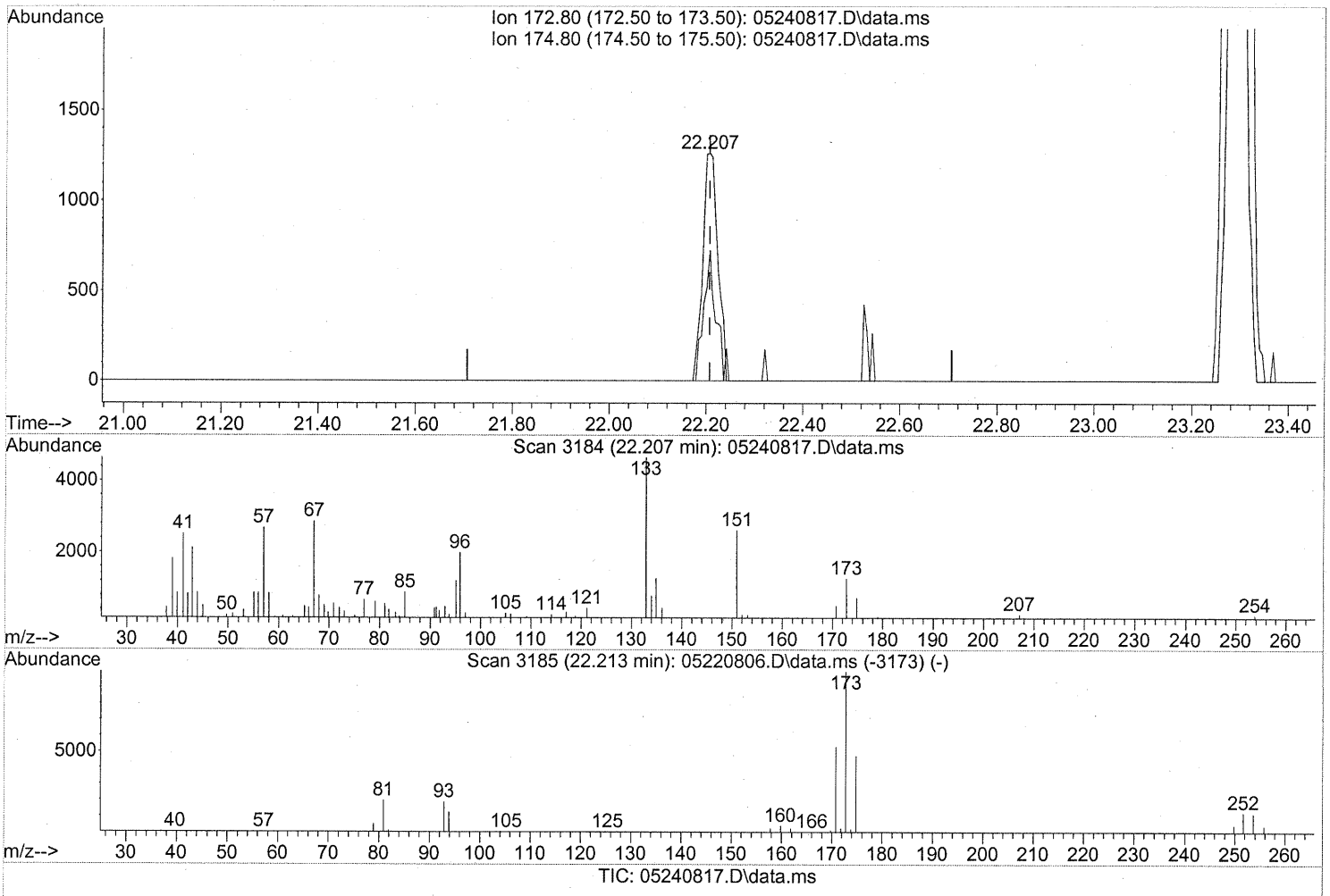
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	50.33
0.00	0.00	0.00
0.00	0.00	0.00

536

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(68) Bromoform (T)

22.207min (+0.000) 0.09ng

response 2693

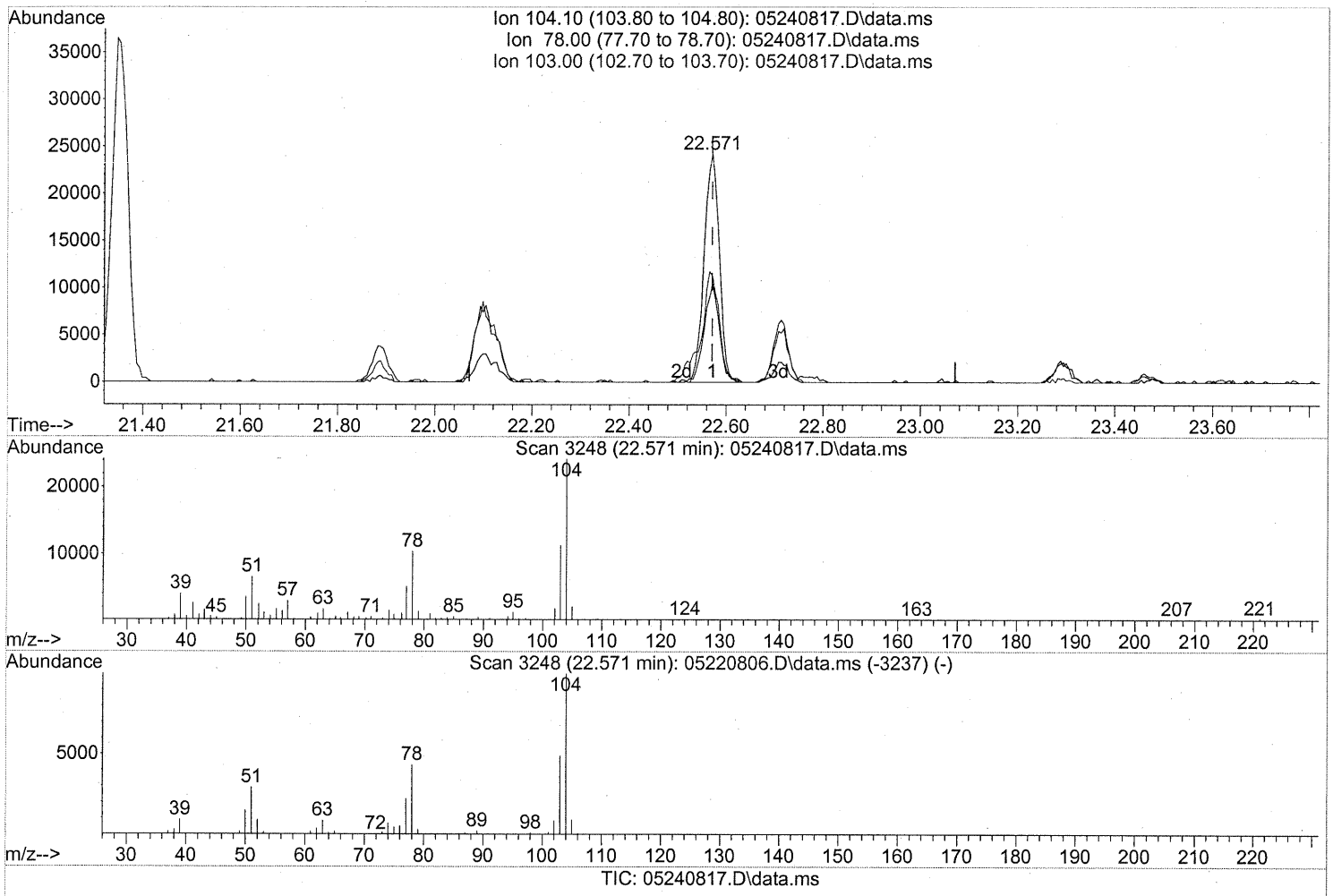
Ion	Exp%	Act%
172.80	100	100
174.80	49.40	47.46
0.00	0.00	0.00
0.00	0.00	0.00

537

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(69) Styrene (T)

22.571min (+0.000) 0.53ng

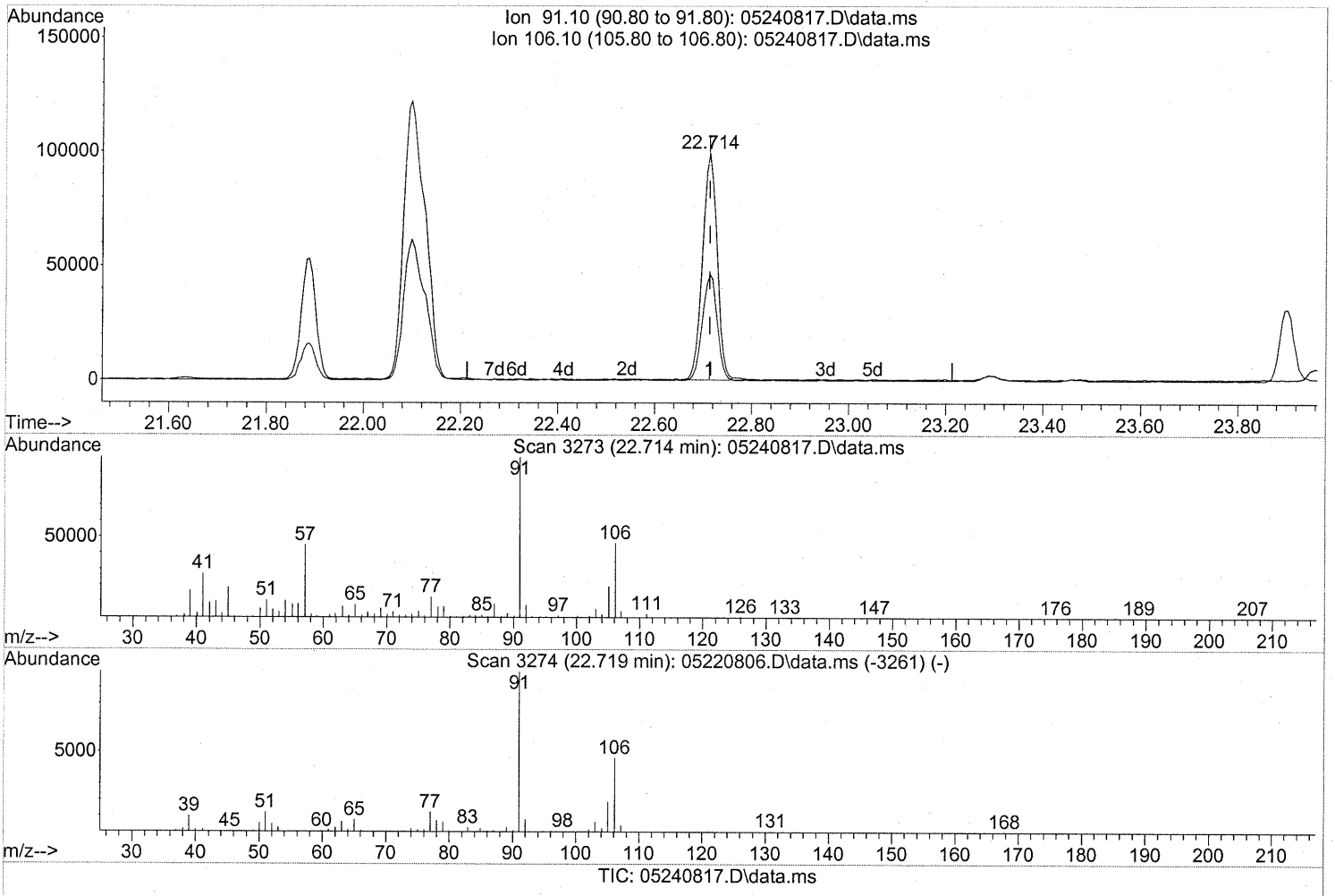
response 52242

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	43.11
103.00	47.10	58.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(70) o-Xylene (T)

22.714min (+0.000) 1.74ng

response 207143

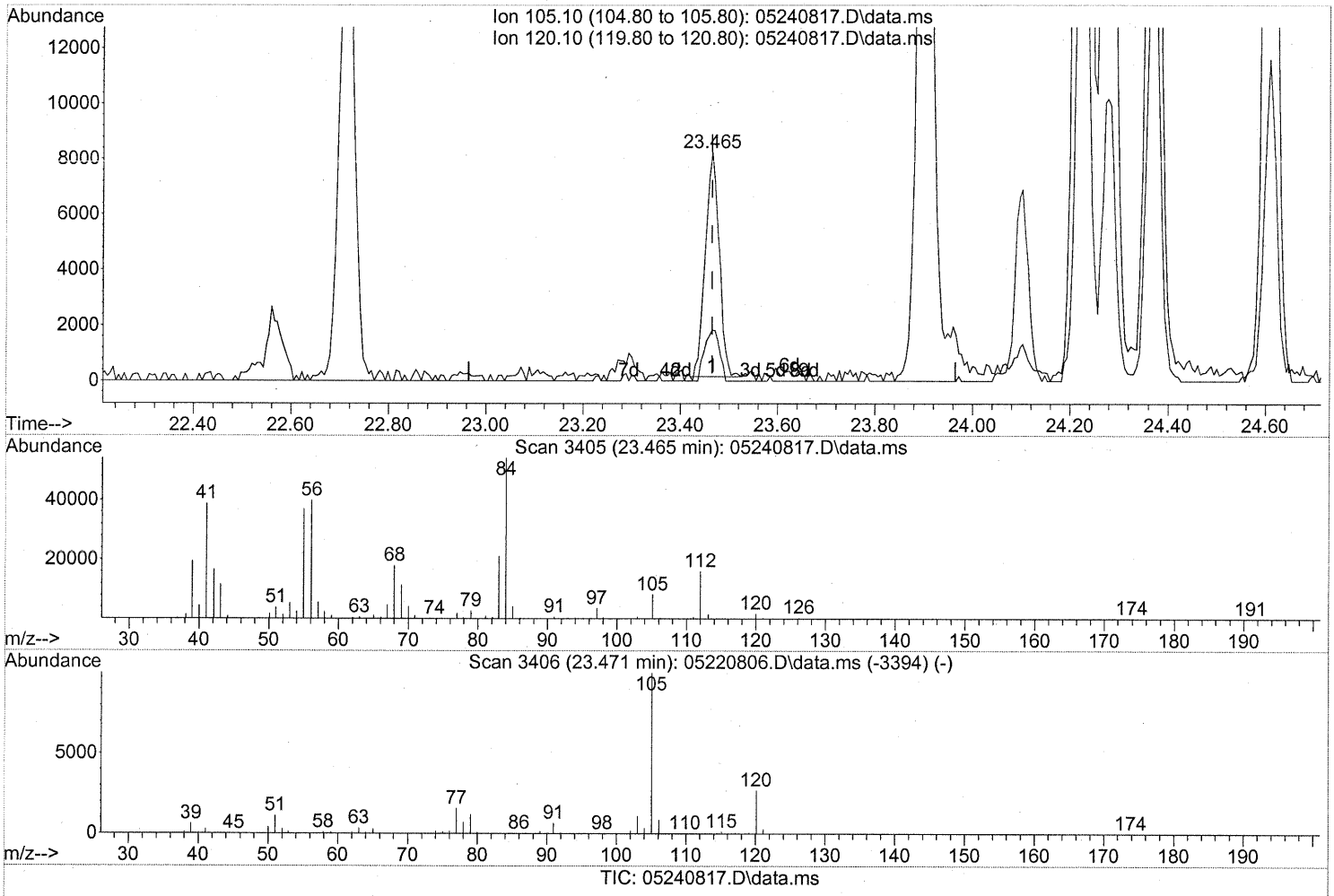
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.02
0.00	0.00	0.00
0.00	0.00	0.00

539

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(74) Cumene (T)

23.465min (+0.000) 0.10ng

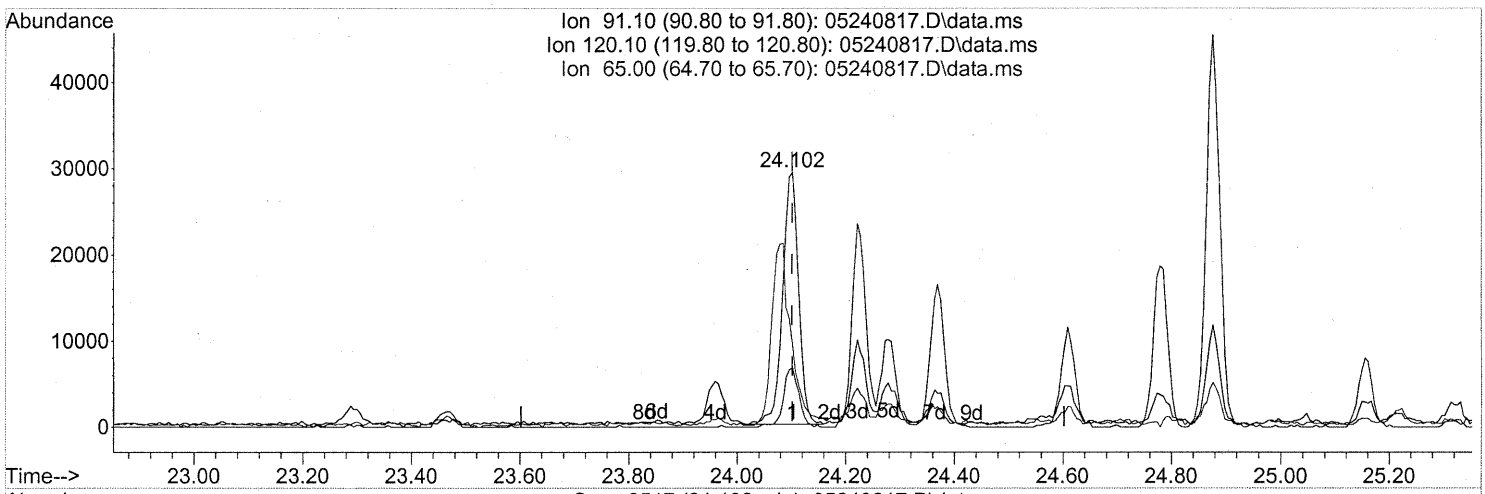
response 15903

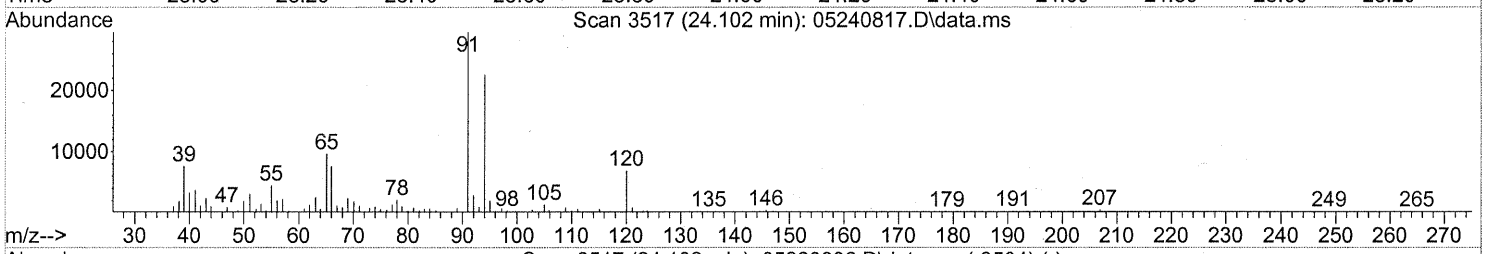
Ion	Exp%	Act%
105.10	100	100
120.10	26.30	24.41
0.00	0.00	0.00
0.00	0.00	0.00

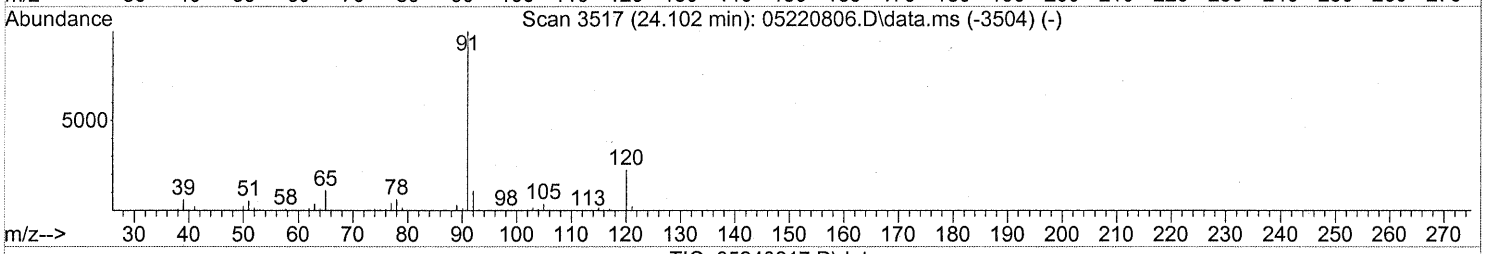
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

(76) n-Propylbenzene (T)

24.102min (+0.000) 0.30ng

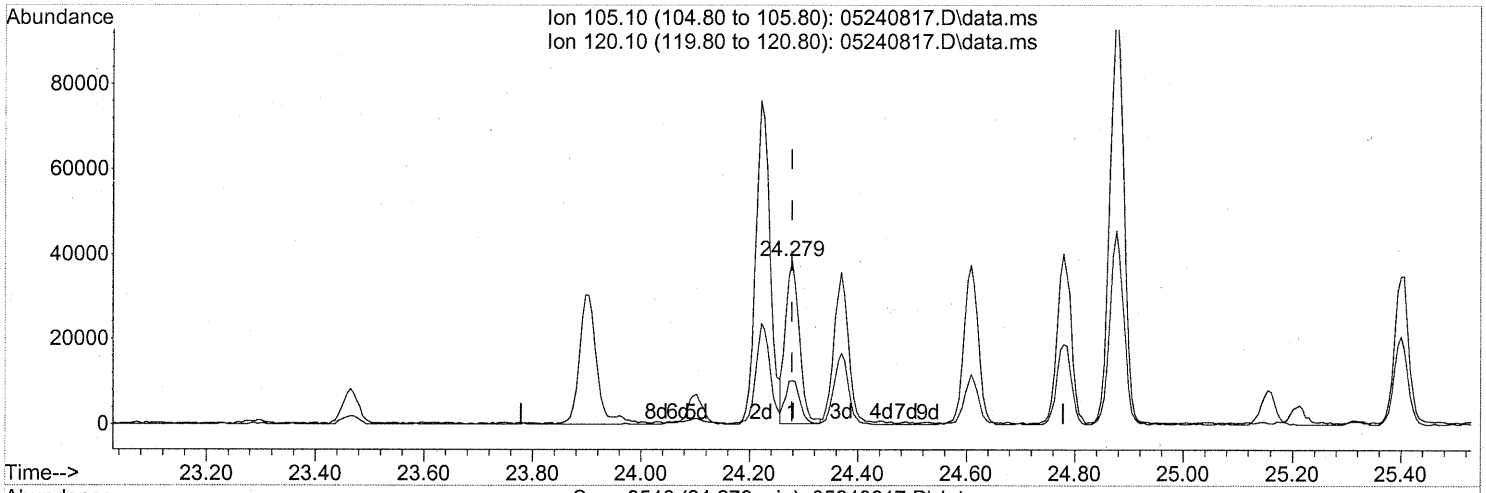
response 59708

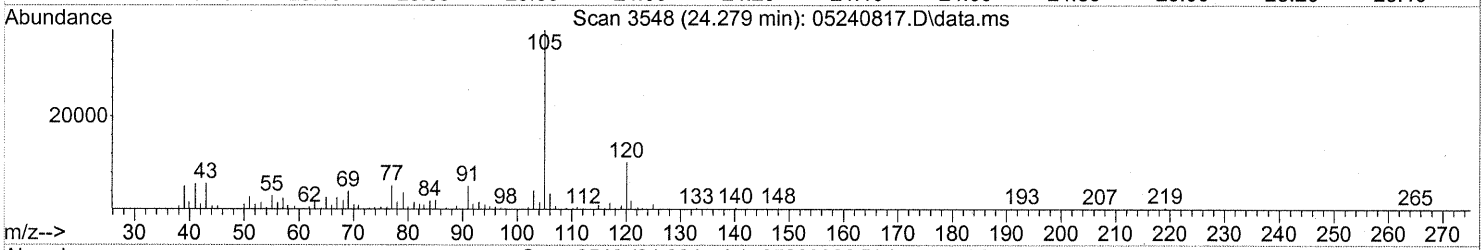
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	22.73
65.00	11.40	88.67#
0.00	0.00	0.00

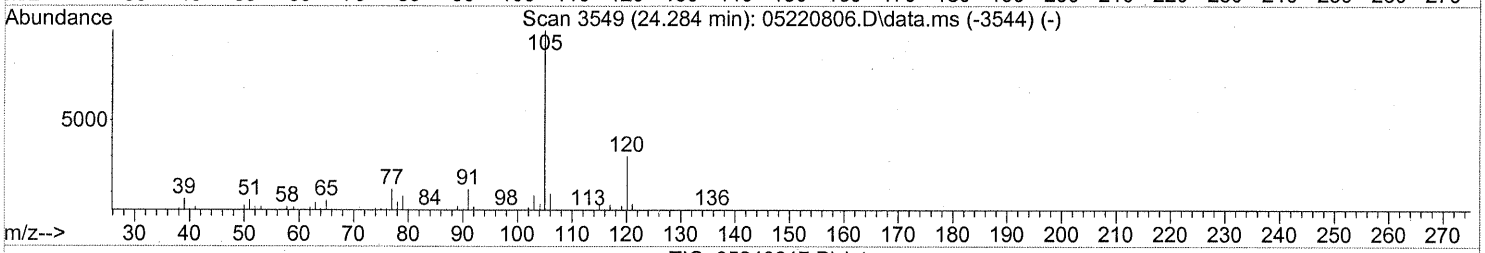
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (+0.000) 0.43ng

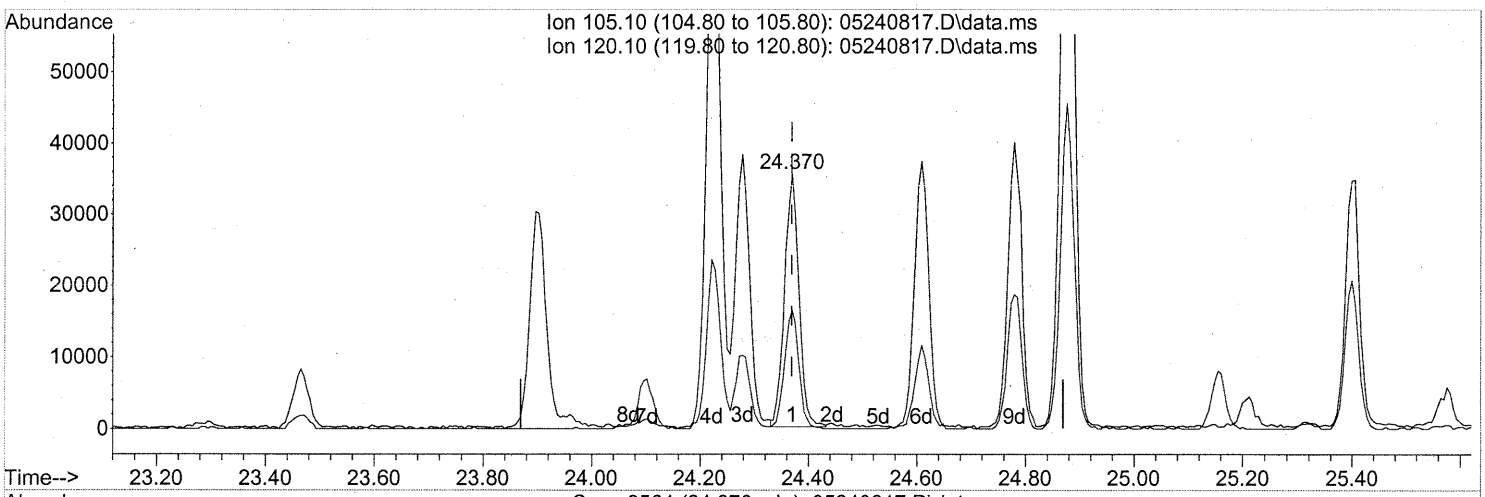
response 67820

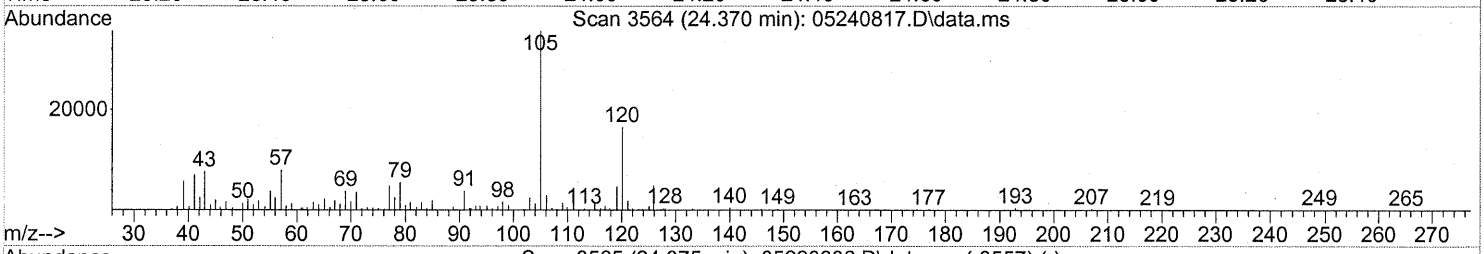
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	28.38
0.00	0.00	0.00
0.00	0.00	0.00

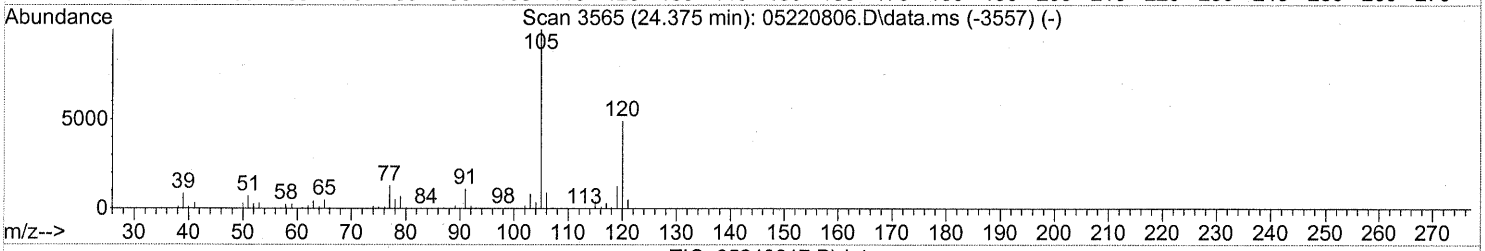
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

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

24.370min (+0.000) 0.46ng

response 65325

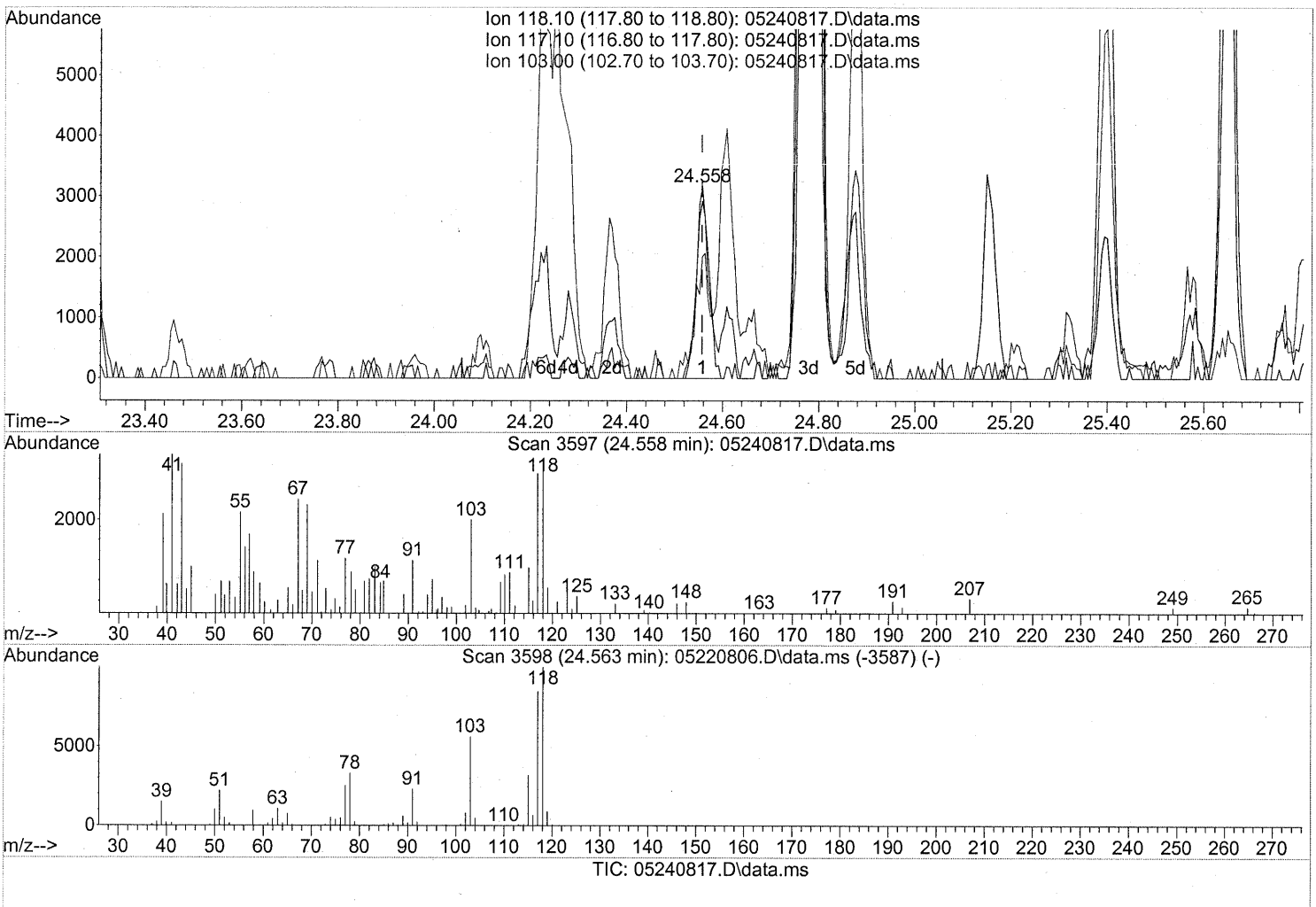
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	46.68
0.00	0.00	0.00
0.00	0.00	0.00

543

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(80) alpha-Methylstyrene (T)

24.558min (+0.000) 0.07ng

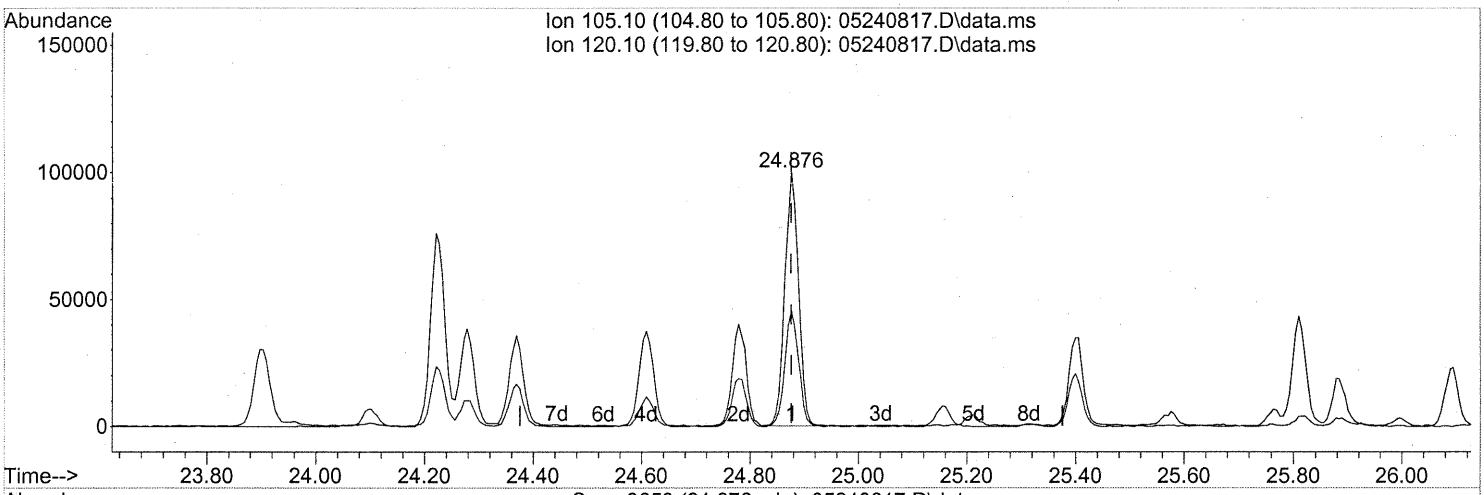
response 5755

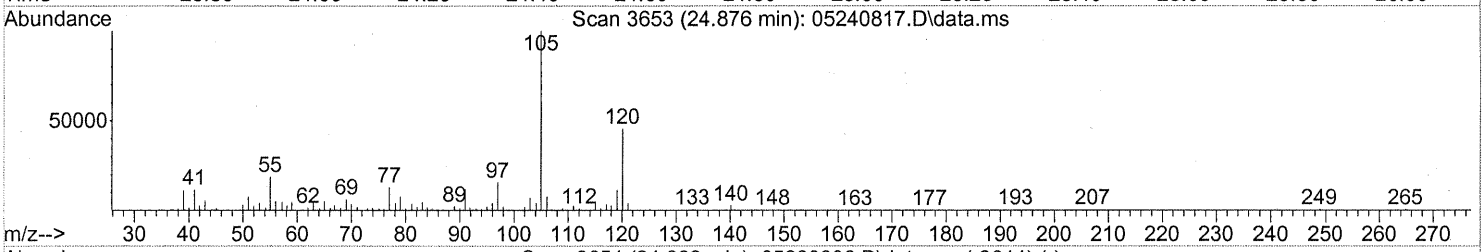
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	98.11
103.00	55.30	76.04#
0.00	0.00	0.00

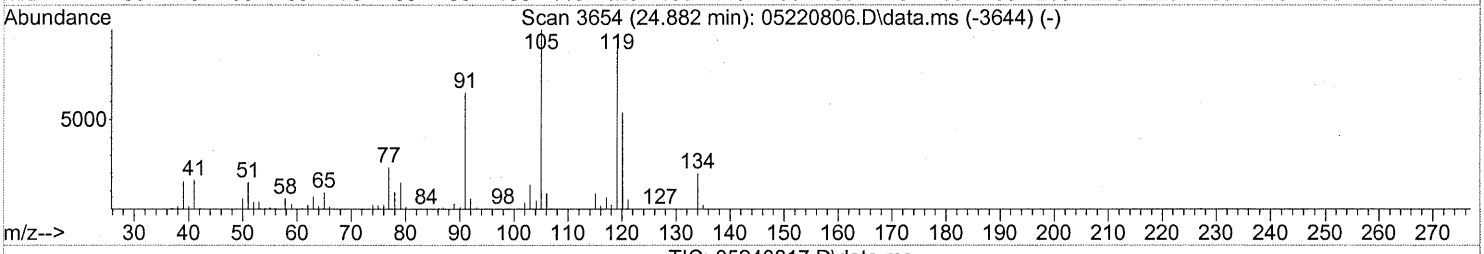
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

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

24.876min (+0.000) 1.21ng

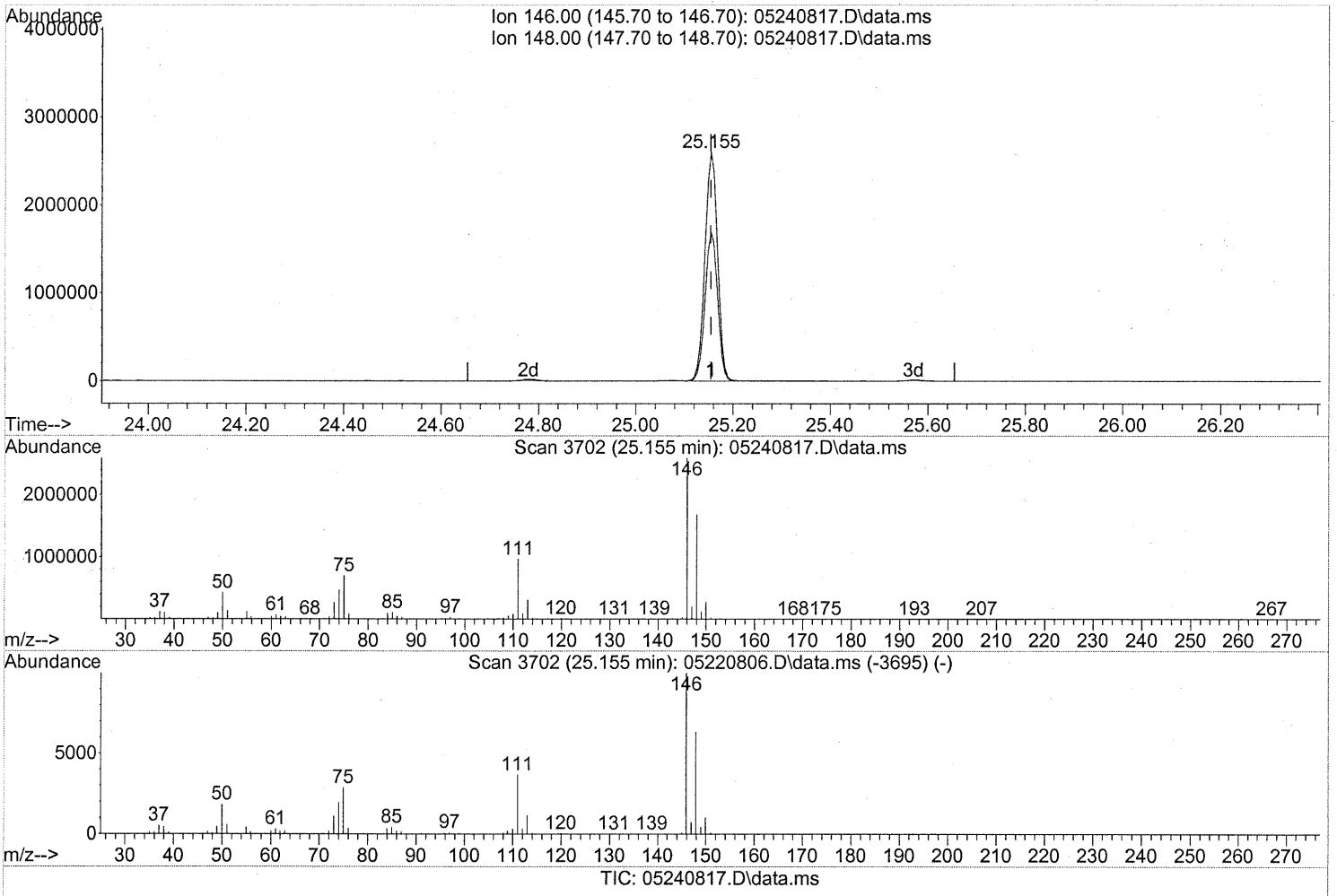
response 175158

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 53.16ng

response 4652470

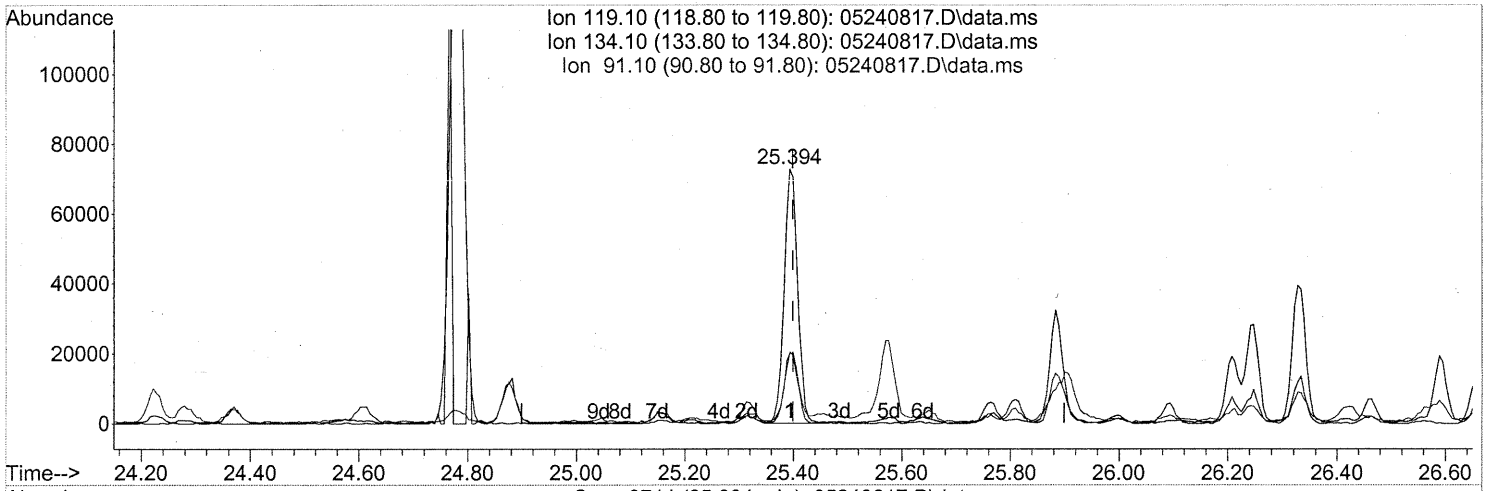
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.61
0.00	0.00	0.00
0.00	0.00	0.00

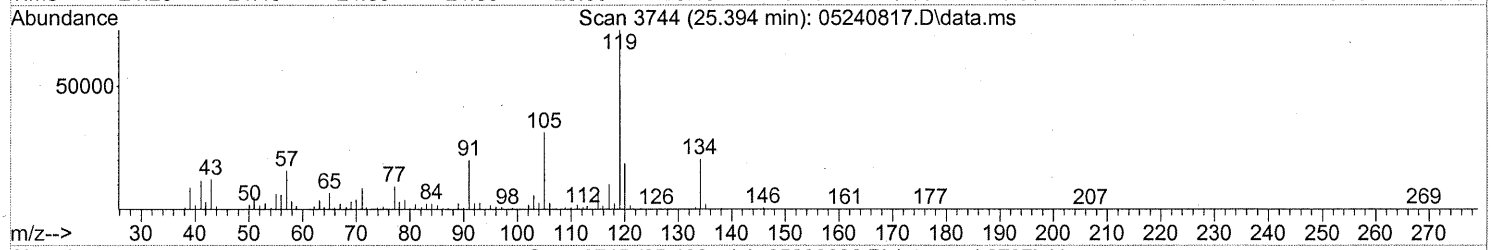
546

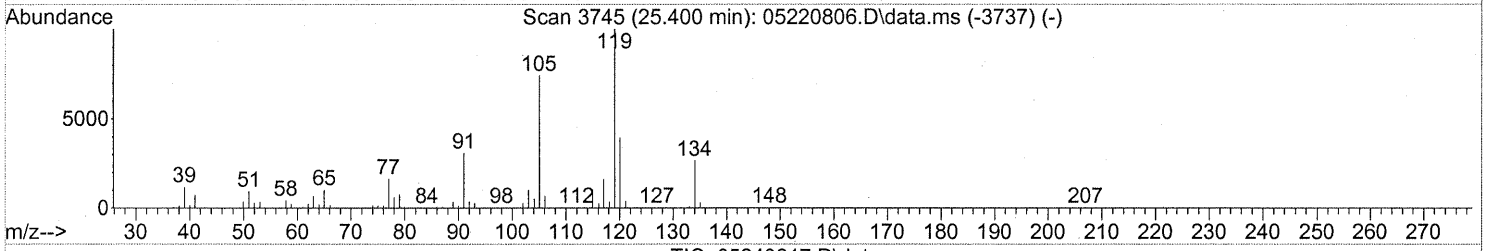
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240817.D\data.ms

(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.82ng

response 124808

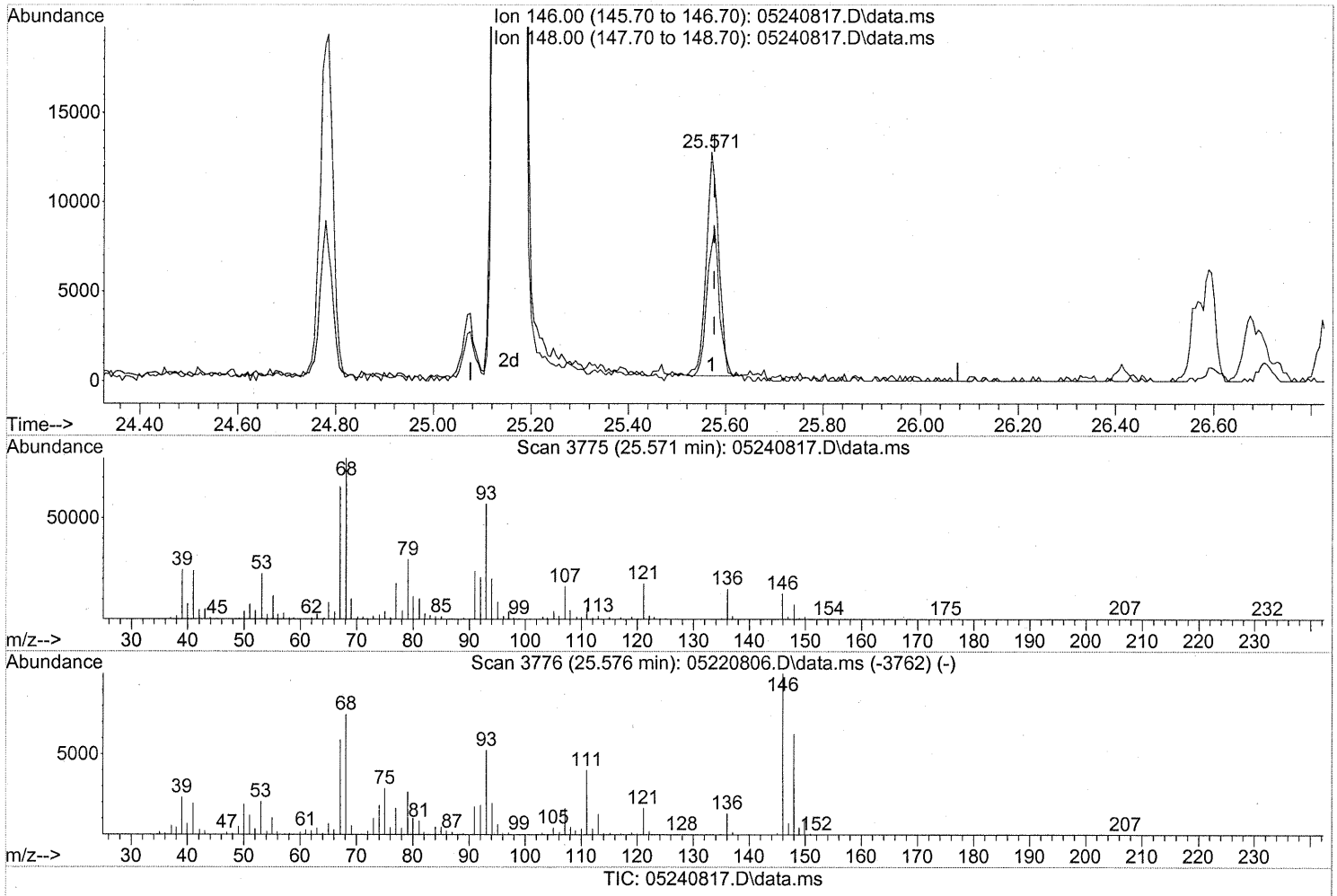
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	28.29
91.10	27.10	30.78
0.00	0.00	0.00

547

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 18:01:56 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 0.26ng

response 22227

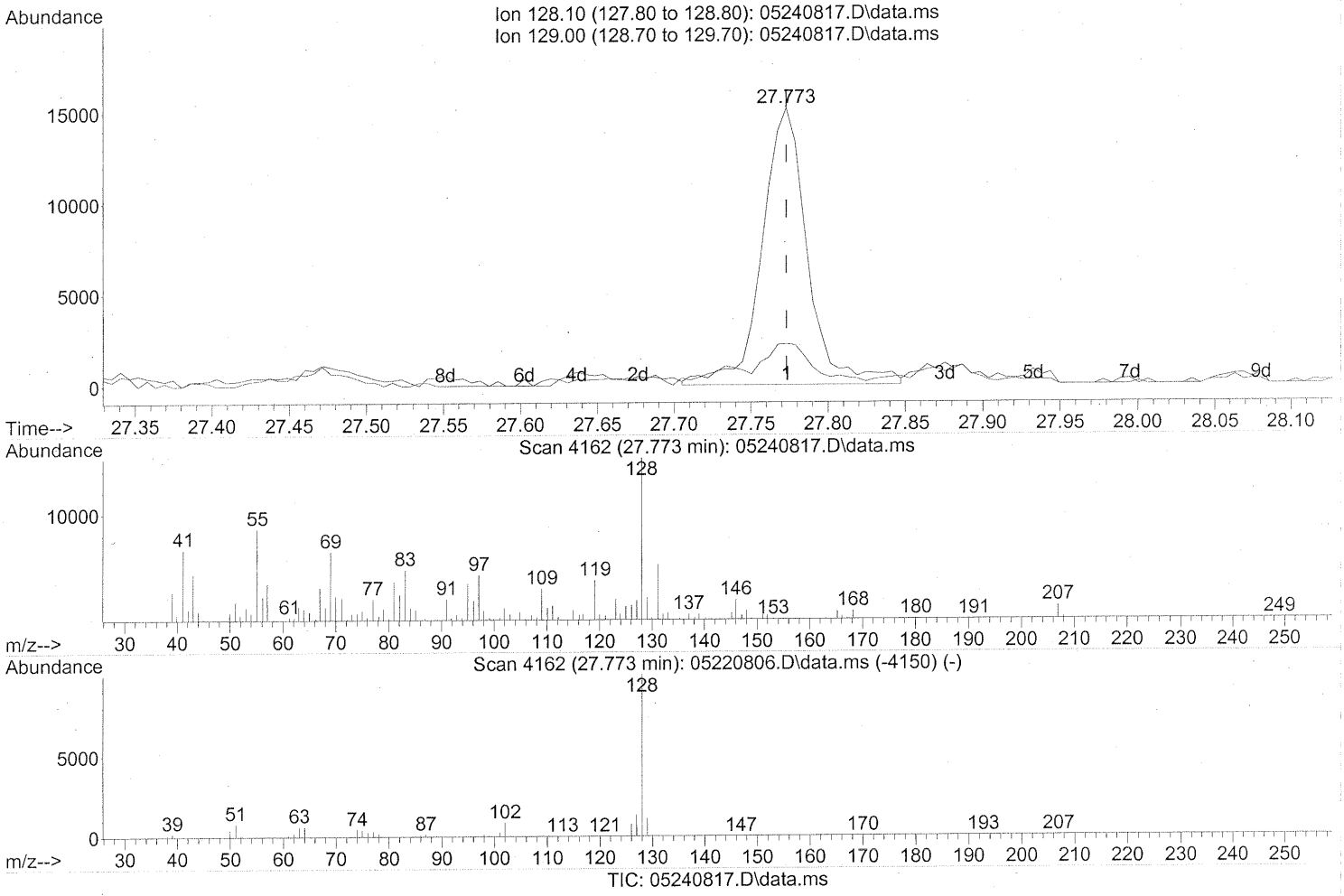
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	71.79
0.00	0.00	0.00
0.00	0.00	0.00

548

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801422-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 09:04:17 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(95) Naphthalene (T)

27.773min (+0.000) 0.16ng

response 31041

extra tailing

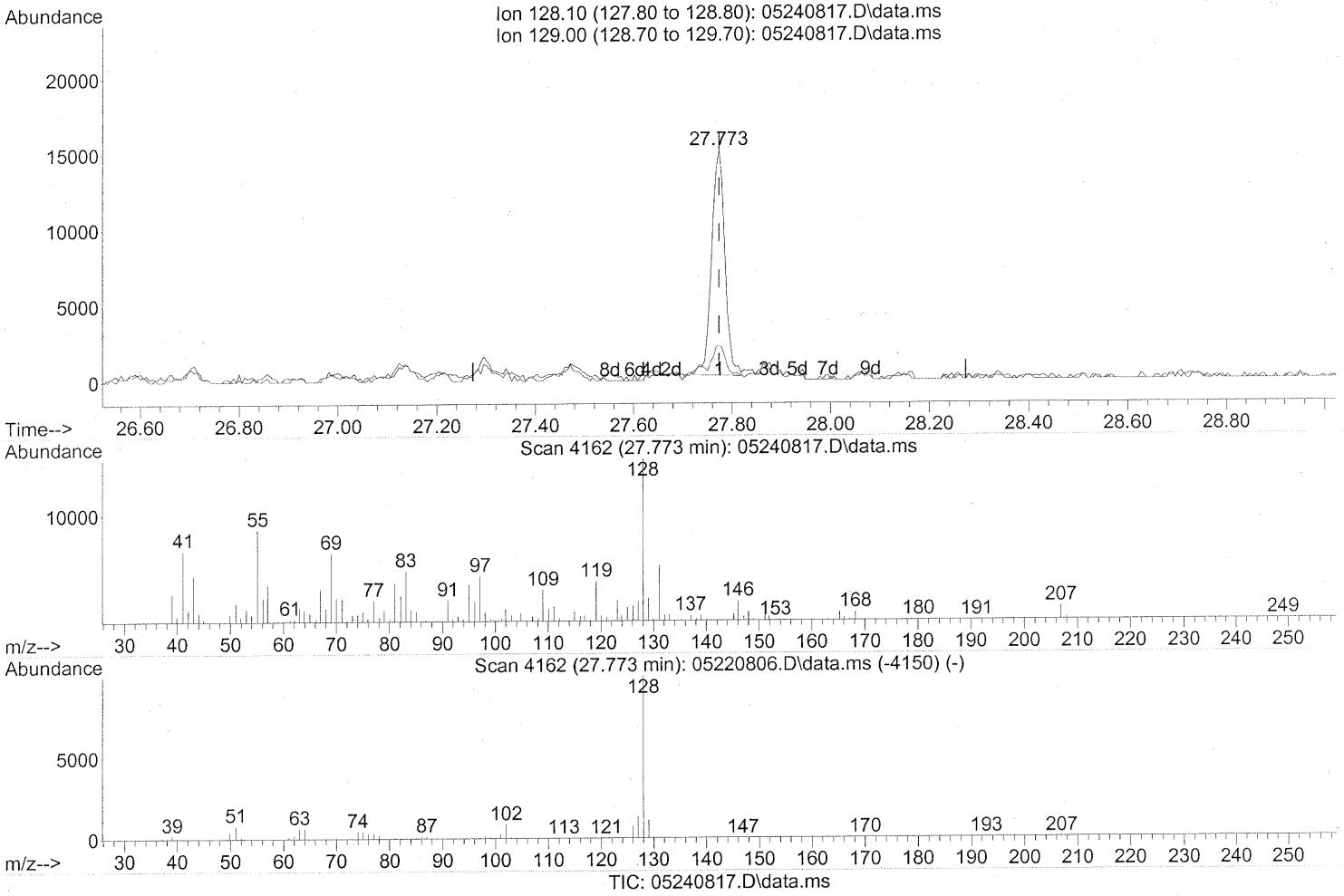
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	15.65
0.00	0.00	0.00
0.00	0.00	0.00

549

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801422-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 09:04:17 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (+0.000) 0.15ng m

response 27818

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	17.46
0.00	0.00	0.00
0.00	0.00	0.00

corr. baseline

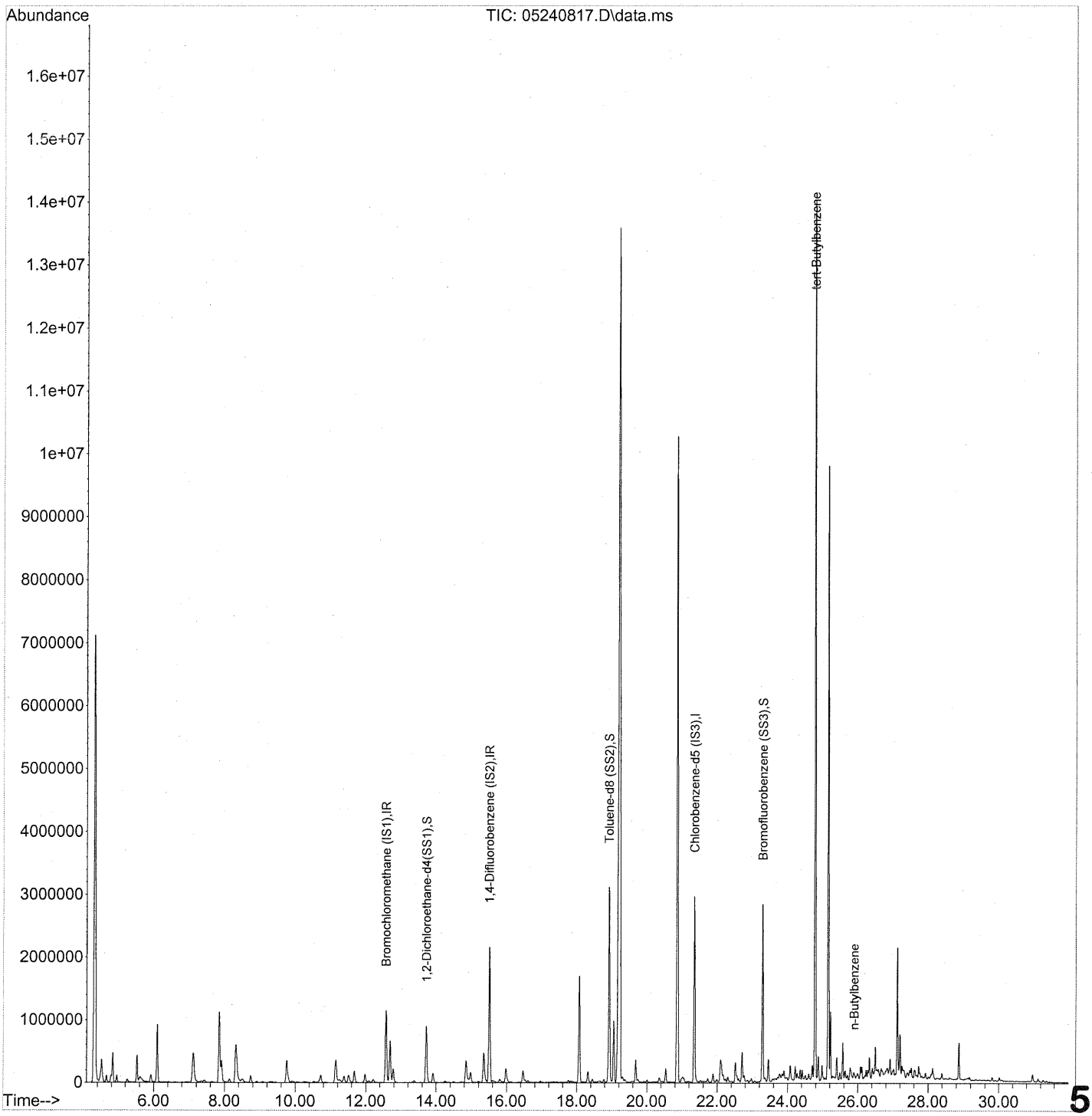
5/29/08

5/30/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 20:37:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



551

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 20:37:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	604273	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2567002	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1175375	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	13.72	65	931497	22.247	ng		-0.03
Spiked Amount 25.000			Recovery = 89.00%				
5) Toluene-d8 (SS2)	18.92	98	2641326	25.022	ng		-0.02
Spiked Amount 25.000			Recovery = 100.08%				
6) Bromofluorobenzene (SS3)	23.29	174	1095917	25.530	ng		0.00
Spiked Amount 25.000			Recovery = 102.12%				
Target Compounds							Qvalue
7) tert-Butylbenzene	24.78	119	282500	~~2.047~~ ng	NR		92
8) n-Butylbenzene	25.90	91	40211	0.263 ng	#		61

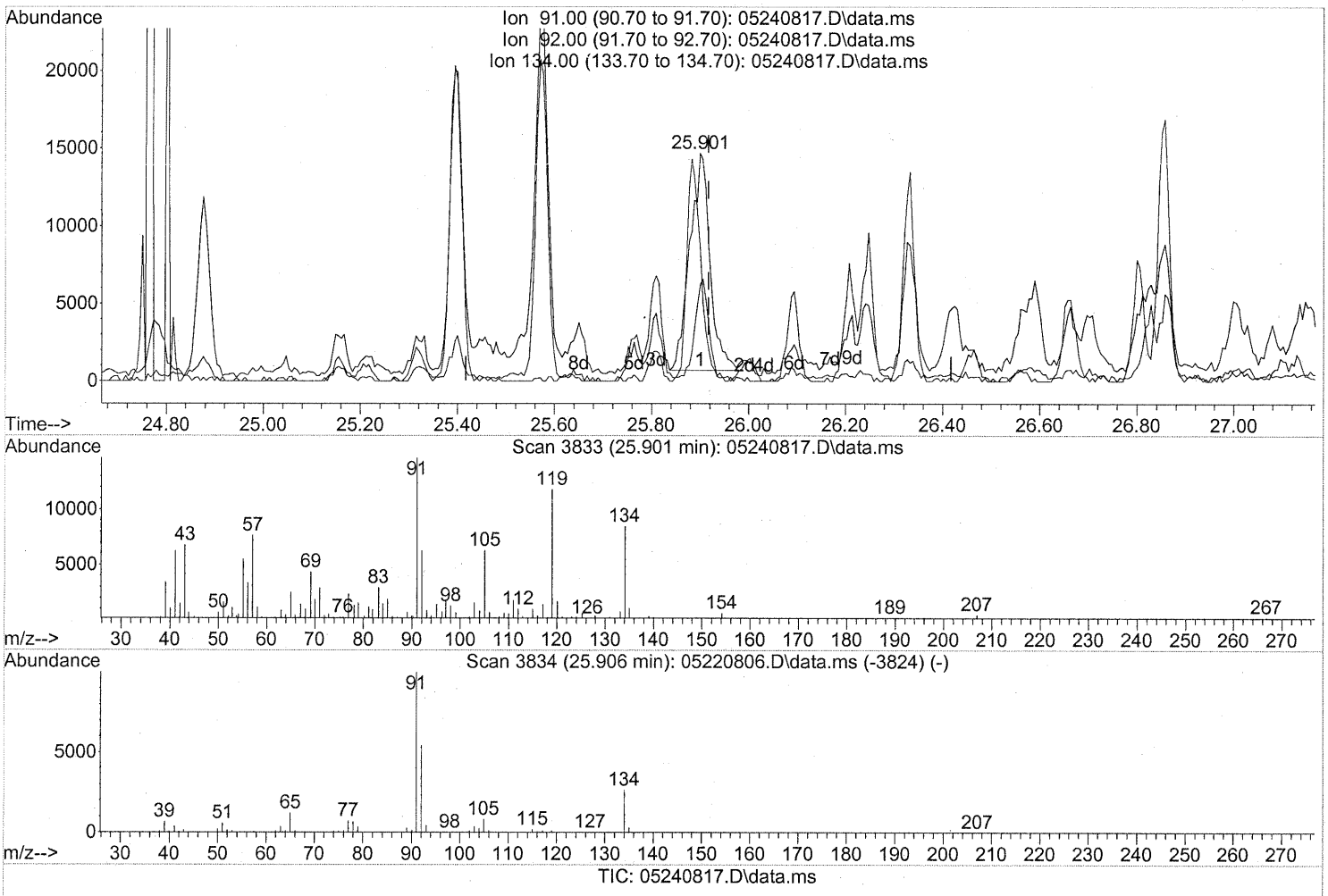
(#) = qualifier out of range (m) = manual integration (+) = signals summed

552

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240817.D
Acq On : 24 May 2008 18:08
Operator : WA
Sample : P0801442-010 (1000ml)
Misc : ENSR SG65B-05 (-2.3, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 25 20:37:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240817.D\data.ms

(8) n-Butylbenzene

25.901min (-0.017) 0.26ng

response 40211

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	33.22#
134.00	28.80	0.00#
0.00	0.00	0.00

553

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00420

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	0.73	0.073	**0.42**	0.15	0.015	
74-87-3	Chloromethane	ND	0.15	0.073	ND	0.071	0.035	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.11**	0.73	0.073	**0.016**	0.10	0.010	**J**
75-01-4	Vinyl Chloride	ND	0.15	0.073	ND	0.057	0.029	
74-83-9	Bromomethane	ND	0.15	0.073	ND	0.038	0.019	
75-00-3	**Chloroethane**	**0.17**	0.15	0.073	**0.063**	0.055	0.028	
64-17-5	**Ethanol**	**12**	7.3	0.073	**6.4**	3.9	0.039	
67-64-1	**Acetone**	**14**	7.3	0.11	**6.0**	3.1	0.045	**B**
75-69-4	**Trichlorofluoromethane**	**1.2**	0.15	0.073	**0.22**	0.026	0.013	
107-13-1	Acrylonitrile	ND	0.73	0.10	ND	0.34	0.047	
75-35-4	**1,1-Dichloroethene**	**0.074**	0.15	0.073	**0.019**	0.037	0.018	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.47**	0.73	0.11	**0.15**	0.24	0.036	**J**
75-09-2	**Methylene Chloride**	**0.26**	0.73	0.073	**0.076**	0.21	0.021	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.073	ND	0.047	0.023	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.15	0.082	**0.067**	0.019	0.011	
75-15-0	**Carbon Disulfide**	**3.8**	0.73	0.18	**1.2**	0.23	0.056	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.073	ND	0.037	0.018	
75-34-3	1,1-Dichloroethane	ND	0.15	0.073	ND	0.036	0.018	
1634-04-4	**Methyl tert-Butyl Ether**	**0.099**	0.15	0.073	**0.028**	0.041	0.020	**J**
108-05-4	**Vinyl Acetate**	**2.7**	7.3	0.23	**0.78**	2.1	0.066	**J**
78-93-3	**2-Butanone (MEK)**	**3.8**	0.73	0.073	**1.3**	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.073	ND	0.037	0.018	
108-20-3	Diisopropyl Ether	ND	0.73	0.086	ND	0.17	0.021	
67-66-3	**Chloroform**	**7.5**	0.15	0.086	**1.5**	0.030	0.018	

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

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05D** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-011

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00420

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

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	0.73	0.074	ND	0.17	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.073	ND	0.036	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.073	ND	0.027	0.013	
71-43-2	**Benzene**	**1.8**	0.15	0.073	**0.55**	0.046	0.023	
56-23-5	**Carbon Tetrachloride**	**0.50**	0.15	0.073	**0.080**	0.023	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.73	0.073	ND	0.17	0.017	
78-87-5	1,2-Dichloropropane	ND	0.15	0.073	ND	0.032	0.016	
75-27-4	**Bromodichloromethane**	**0.55**	0.15	0.073	**0.082**	0.022	0.011	
79-01-6	**Trichloroethene**	**0.32**	0.15	0.073	**0.060**	0.027	0.014	
123-91-1	**1,4-Dioxane**	**0.30**	0.73	0.089	**0.083**	0.20	0.025	**J**
80-62-6	Methyl Methacrylate	ND	0.73	0.11	ND	0.18	0.027	
142-82-5	**n-Heptane**	**0.17**	0.73	0.093	**0.042**	0.18	0.023	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.076	ND	0.16	0.017	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	0.73	0.082	**0.066**	0.18	0.020	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.092	ND	0.16	0.020	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.073	ND	0.027	0.013	
108-88-3	**Toluene**	**5.2**	0.73	0.073	**1.4**	0.19	0.019	
591-78-6	**2-Hexanone**	**0.34**	0.73	0.11	**0.084**	0.18	0.027	**J**
124-48-1	**Dibromochloromethane**	**0.31**	0.15	0.099	**0.036**	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.079	ND	0.019	0.010	
111-65-9	**n-Octane**	**0.16**	0.73	0.073	**0.035**	0.16	0.016	**J**
127-18-4	**Tetrachloroethene**	**2.0**	0.15	0.073	**0.30**	0.022	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.074	ND	0.032	0.016	

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Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG65B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00420

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.63**	0.73	0.091	**0.14**	0.17	0.021	**J**
179601-23-1	**m,p-Xylenes**	**2.6**	0.73	0.19	**0.60**	0.17	0.044	
75-25-2	**Bromoform**	**0.18**	0.73	0.11	**0.018**	0.071	0.011	**J**
100-42-5	Styrene	ND	0.73	0.11	ND	0.17	0.026	
95-47-6	**o-Xylene**	**1.4**	0.73	0.092	**0.33**	0.17	0.021	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.093	ND	0.021	0.014	
98-82-8	Cumene	ND	0.73	0.082	ND	0.15	0.017	
103-65-1	**n-Propylbenzene**	**0.25**	0.73	0.076	**0.051**	0.15	0.015	**J**
622-96-8	**4-Ethyltoluene**	**0.43**	0.73	0.083	**0.088**	0.15	0.017	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.27**	0.73	0.088	**0.056**	0.15	0.018	**J**
98-83-9	**alpha-Methylstyrene**	**0.11**	0.73	0.11	**0.024**	0.15	0.022	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	0.73	0.10	**0.22**	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.028	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.091	ND	0.024	0.015	
106-46-7	**1,4-Dichlorobenzene**	**37**	0.15	0.082	**6.2**	0.024	0.014	
135-98-8	sec-Butylbenzene	ND	0.73	0.085	ND	0.13	0.015	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.36**	0.73	0.095	**0.066**	0.13	0.017	**J**
95-50-1	**1,2-Dichlorobenzene**	**0.12**	0.15	0.096	**0.021**	0.024	0.016	**J**
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	0.11	ND	0.076	0.011	
120-82-1	**1,2,4-Trichlorobenzene**	**0.24**	0.15	0.11	**0.033**	0.020	0.015	
91-20-3	**Naphthalene**	**2.8**	0.29	0.11	**0.54**	0.056	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.012	
98-06-6	tert-Butylbenzene	ND	0.29	0.073	ND	0.053	0.013	
104-51-8	n-Butylbenzene	ND	0.29	0.073	ND	0.053	0.013	

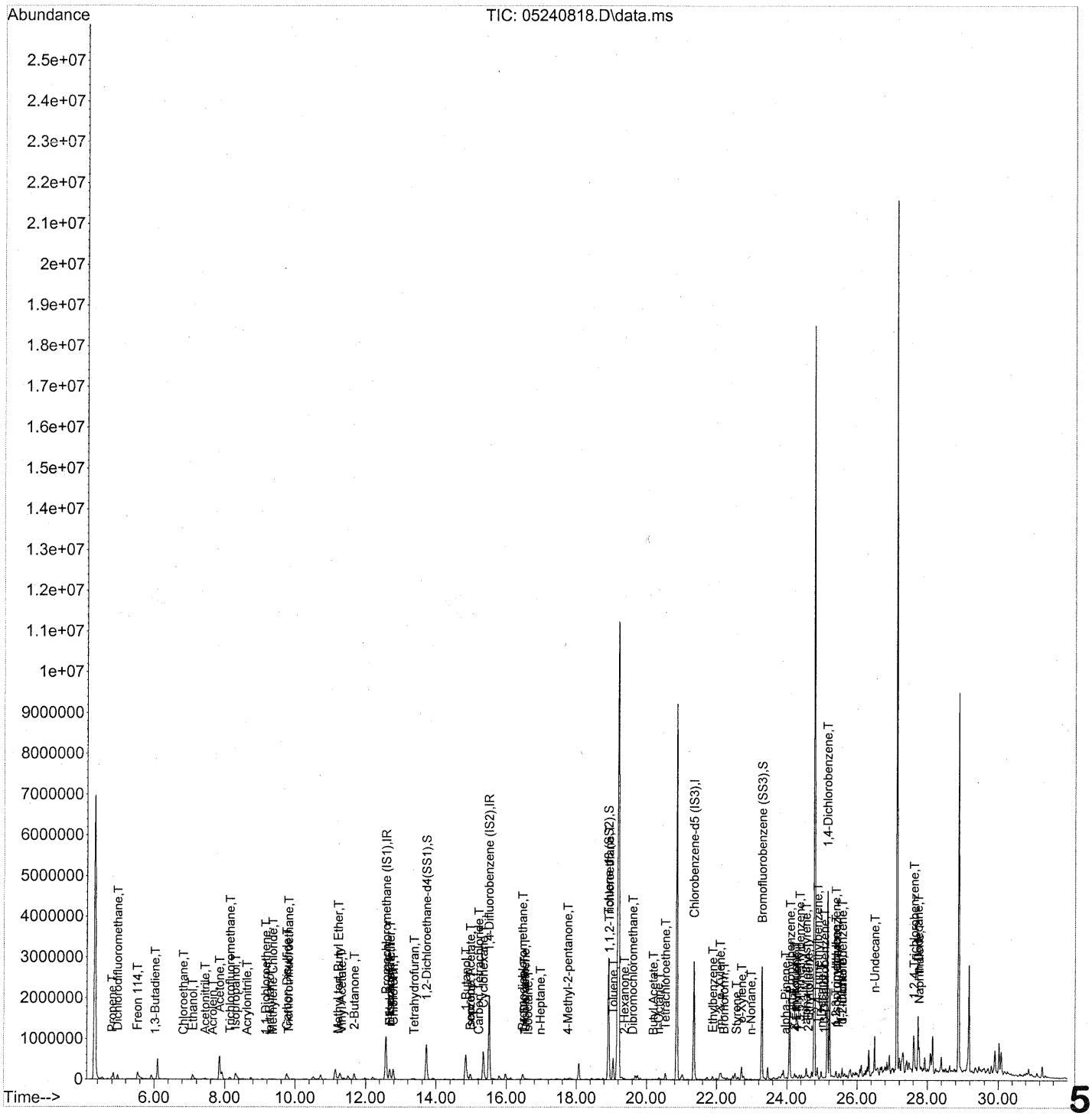
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: Ru Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	564336	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2463090	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1128628	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	899997	23.016	ng		0.00
Spiked Amount 25.000			Recovery = 92.08%				
57) Toluene-d8 (SS2)	18.92	98	2530078	24.961	ng		0.00
Spiked Amount 25.000			Recovery = 99.84%				
73) Bromofluorobenzene (SS3)	23.29	174	1043399	25.314	ng		0.00
Spiked Amount 25.000			Recovery = 101.24%				
Target Compounds							Qvalue
2) Propene	4.80	42	43821	0.983	ng	#	56
3) Dichlorodifluoromethane	4.97	85	117342	1.428	ng		100
4) Chloromethane	5.32	50	645	N.D.			
5) Freon 114	5.53	135	3028	0.075	ng	#	43
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.03	54	3965	0.100	ng	#	83
8) Bromomethane	6.50	94	343	N.D.			
9) Chloroethane	6.83	64	2892	0.114	ng		100
10) Ethanol	7.10	45	243501m	8.206	ng		
11) Acetonitrile	7.44	41	45491	0.530	ng		99
12) Acrolein	7.66	56	13920	0.657	ng		97
13) Acetone	7.85	58	294331m	9.689	ng		
14) Trichlorofluoromethane	8.15	101	58574	0.831	ng		98
15) Isopropanol	8.30	45	352728	3.641	ng		97
16) Acrylonitrile	8.63	53	3044	~~0.066~~	ng	#	8
17) 1,1-Dichloroethene	9.16	96	1586	0.051	ng		88
18) tert-Butanol	9.27	59	26443m	0.321	ng		
19) Methylene Chloride	9.36	84	6136	0.181	ng	#	78
20) Allyl Chloride	9.54	41	372	N.D.			
21) Trichlorotrifluoroethane	9.81	151	11211	0.350	ng		90
22) Carbon Disulfide	9.77	76	332595	2.582	ng		99
23) trans-1,2-Dichloroethene	10.72	61	1812	N.D.			
24) 1,1-Dichloroethane	11.10	63	307	N.D.			
25) Methyl tert-Butyl Ether	11.22	73	6701	0.068	ng		87
26) Vinyl Acetate	11.31	86	10498m	1.870	ng		
27) 2-Butanone	11.68	72	56954	2.569	ng	#	83
28) cis-1,2-Dichloroethene	12.35	61	140	N.D.			
29) Diisopropyl Ether	12.69	87	2907	~~0.107~~	ng	NR#	1
30) Ethyl Acetate	12.69	61	41873	3.498	ng		83
31) n-Hexane	12.70	57	49173	0.814	ng		89

5/30/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	265887	5.167 ng		99
34) Tetrahydrofuran	13.37	72	4066	0.192 ng	#	37
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	617	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	2647	N.D. ✓		
39) Isopropyl Acetate	14.97	61	1453	0.069 ng	#	1
40) 1-Butanol	14.85	56	579343	17.112 ng		86
41) Benzene	14.97	78	155197	1.203 ng		99
42) Carbon Tetrachloride	15.21	117	17059	0.343 ng		99
43) Cyclohexane	15.34	84	38688	0.771 ng	#	1
44) tert-Amyl Methyl Ether	15.86	73	120	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	156	N.D. ✓		
46) Bromodichloromethane	16.46	83	16405	0.376 ng		100
47) Trichloroethene	16.53	130	8755	0.221 ng		100
48) 1,4-Dioxane	16.52	88	5017	0.206 ng		88
49) Isooctane	16.62	57	15869	0.107 ng		60
50) Methyl Methacrylate	16.81	100	61	N.D. ✓		
51) n-Heptane	16.97	71	4031	0.118 ng	#	78
52) cis-1,3-Dichloropropene	17.81	75	676	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	6290	0.184 ng		70
54) trans-1,3-Dichloropropene	18.69	75	111	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	220149	~~6.908 ng~~ NR	#	9
58) Toluene	19.06	91	494976	3.592 ng		97
59) 2-Hexanone	19.37	43	22427	0.236 ng	#	71
60) Dibromochloromethane	19.61	129	7760	0.209 ng		97
61) 1,2-Dibromoethane	19.75	107	80	N.D. ✓		
62) Butyl Acetate	20.19	43	7366	0.076 ng	#	91
63) n-Octane	20.35	57	3423	0.112 ng		100
64) Tetrachloroethene	20.54	166	56585	1.388 ng		99
65) Chlorobenzene	21.40	112	4459	N.D. ✓		
66) Ethylbenzene	21.89	91	68161	0.431 ng		95
67) m- & p-Xylene	22.10	91	188202	1.781 ng		93
68) Bromoform	22.21	173	3455	0.125 ng		99
69) Styrene	22.57	104	5292	~~0.056 ng~~	#	50
70) o-Xylene	22.71	91	110779	0.971 ng		93
71) n-Nonane	22.98	43	11778	0.145 ng		87
72) 1,1,2,2-Tetrachloroethane	22.72	83	2319	N.D. ✓		
74) Cumene	23.46	105	7036	N.D. ✓		
75) alpha-Pinene	23.96	93	7967	0.101 ng	#	46
76) n-Propylbenzene	24.10	91	33020	0.171 ng	#	1
77) 3-Ethyltoluene	24.23	105	70446	0.436 ng		97
78) 4-Ethyltoluene	24.28	105	44840	0.297 ng		98
79) 1,3,5-Trimethylbenzene	24.37	105	25407	0.187 ng		97

AOM 5/30/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

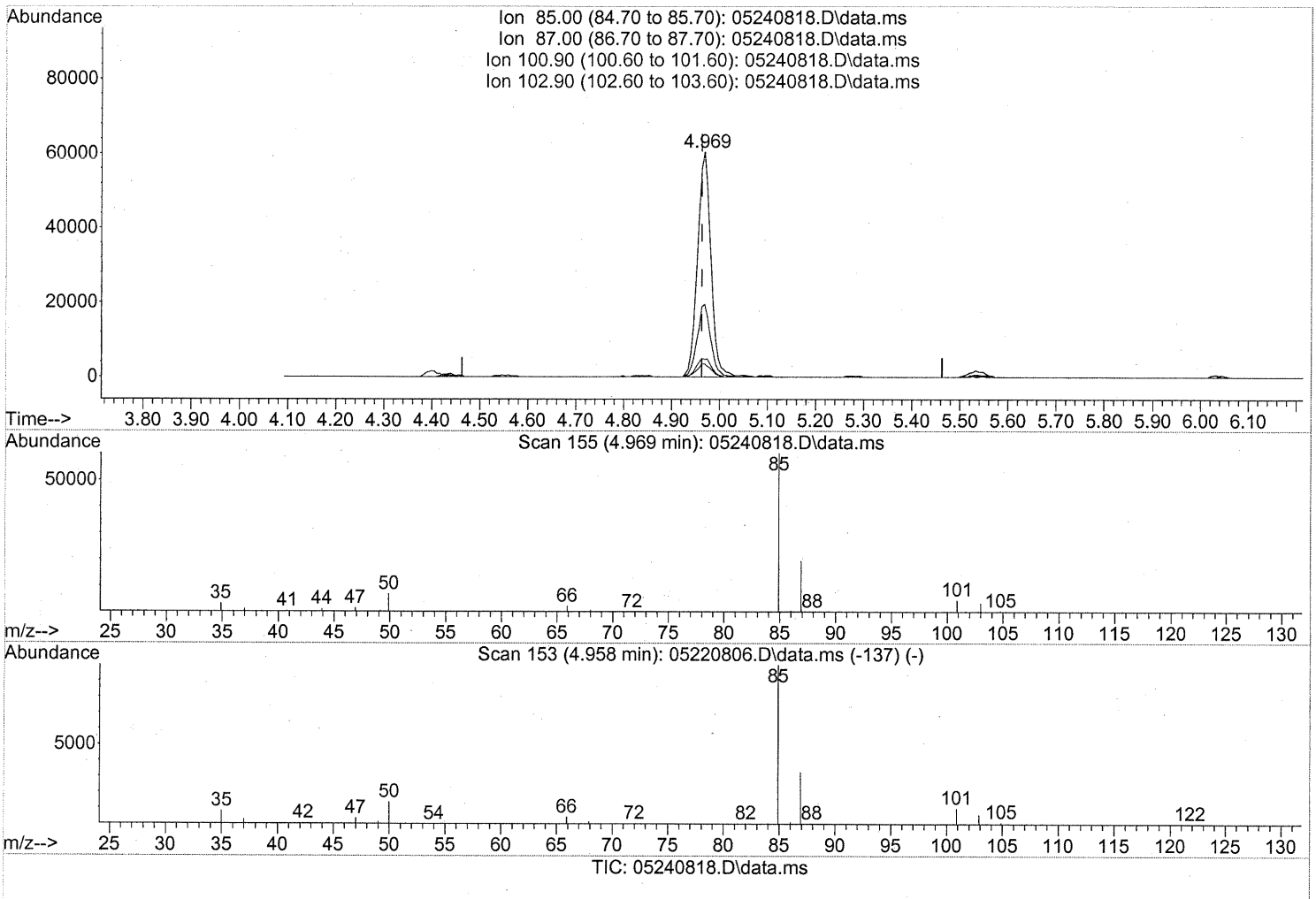
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.55	118	5784	0.078	ng	#	50
81) 2-Ethyltoluene	24.61	105	38491	0.235	ng		99
82) 1,2,4-Trimethylbenzene	24.88	105	104102	0.751	ng		87
83) n-Decane	24.98	57	72288	0.948	ng		75
84) Benzyl Chloride	25.05	91	893	N.D. ✓			
85) 1,3-Dichlorobenzene	25.07	146	4362	~~0.050~~	ng	<MDL	77
86) 1,4-Dichlorobenzene	25.15	146	2156828	25.666	ng		99
87) sec-Butylbenzene	25.21	105	5089	N.D. ✓			
88) p-Isopropyltoluene	25.40	119	36240	0.248	ng		89
89) 1,2,3-Trimethylbenzene	25.40	105	40436	0.298	ng		95
90) 1,2-Dichlorobenzene	25.58	146	6976	0.085	ng		99
91) d-Limonene	25.58	68	61178	1.108	ng		99
92) 1,2-Dibromo-3-Chloropr...	26.25	157	826	N.D. ✓			
93) n-Undecane	26.50	57	373685	4.681	ng	#	72
94) 1,2,4-Trichlorobenzene	27.62	180	10035	0.167	ng		97
95) Naphthalene	27.77	128	354629	1.939	ng		97
96) n-Dodecane	27.74	57	447699	5.639	ng		83
97) Hexachloro-1,3-butadiene	28.19	225	1438	N.D. ✓			

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.43ng

response 117342

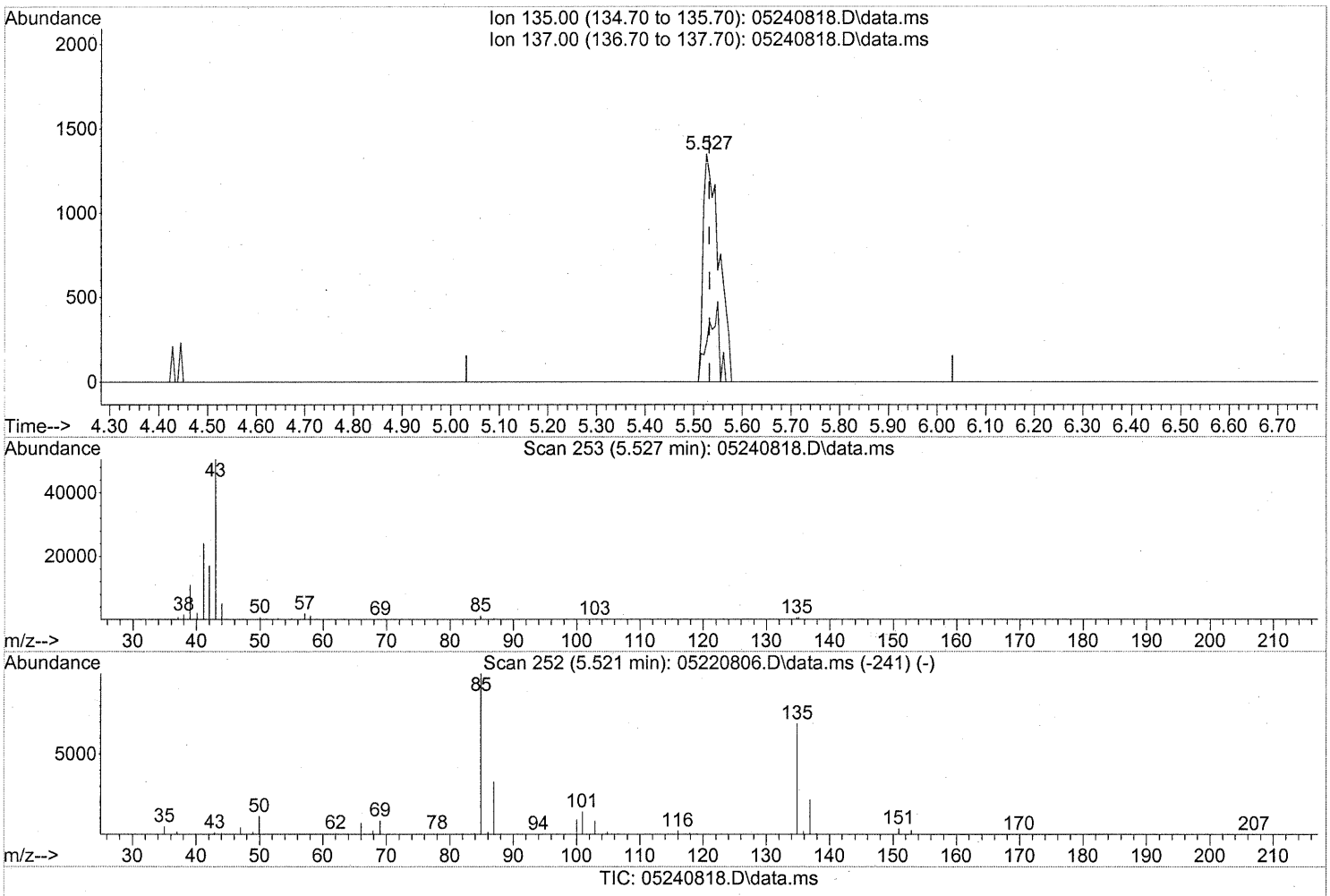
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.38
100.90	9.30	8.86
102.90	6.00	6.05

561

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(5) Freon 114 (T)

5.527min (-0.006) 0.07ng

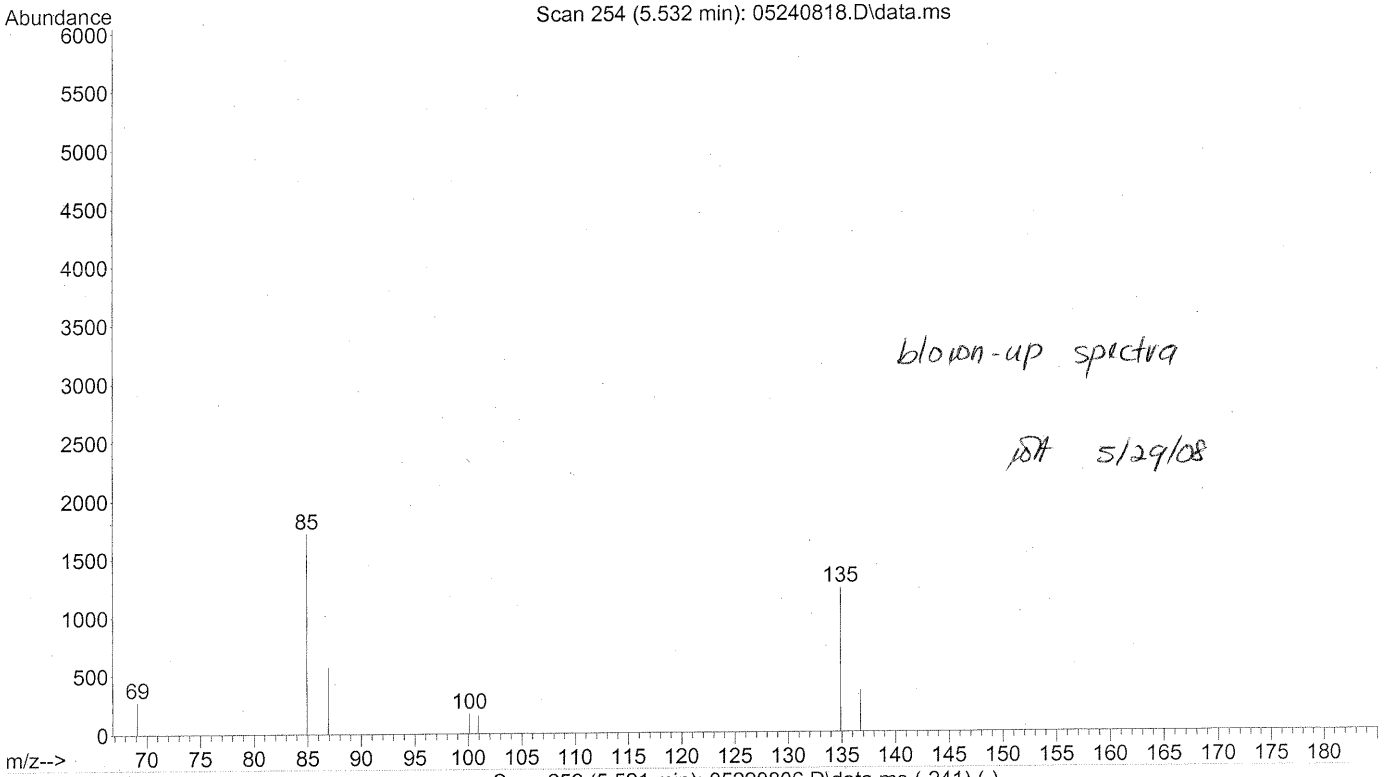
response 3028

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SIL blown-up spectra

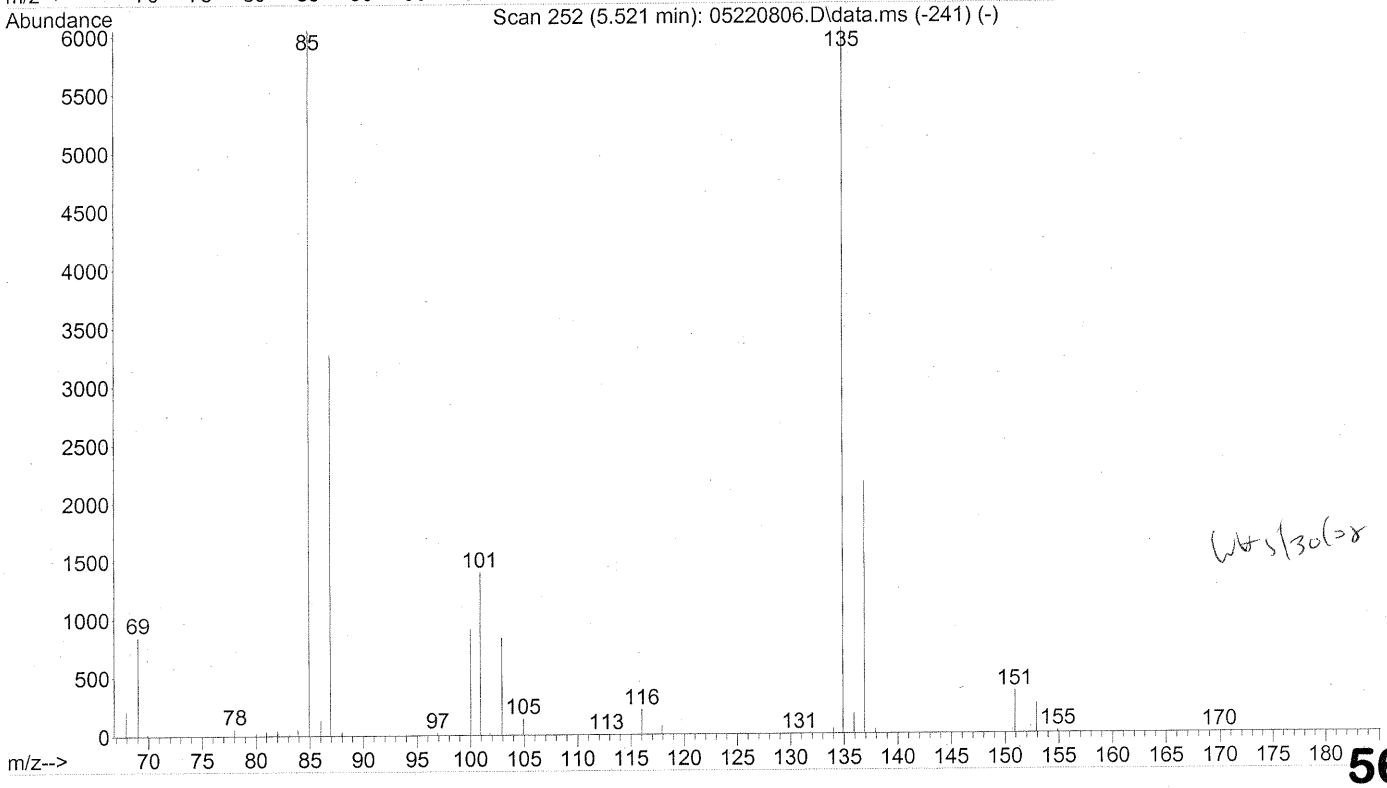
562

File :J:\MS13\DATA\2008_05\24\05240818.D
Operator : WA
Acquired : 24 May 2008 18:50 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-011 (1000ml)
Misc Info : ENSR SG65B-05D (-2.2, 3.5)
Vial Number: 15



blown-up spectra

DT 5/29/08

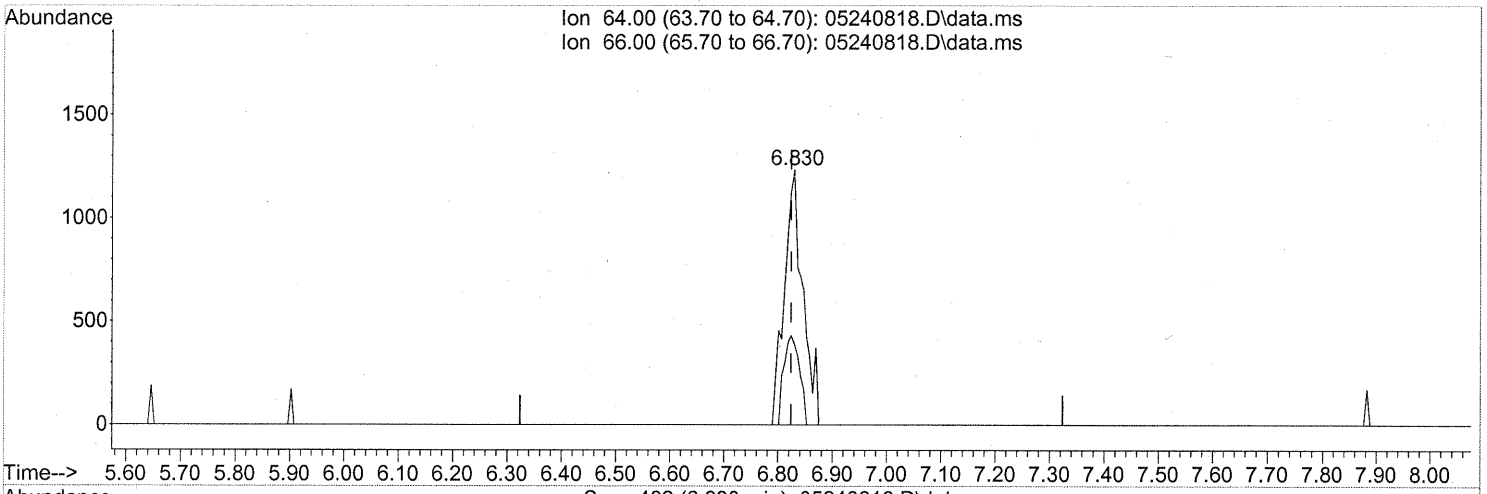


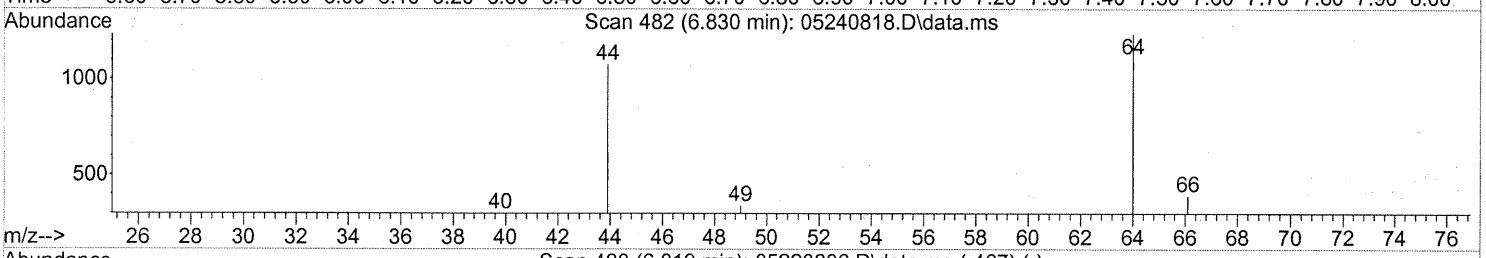
WT 5/30/08

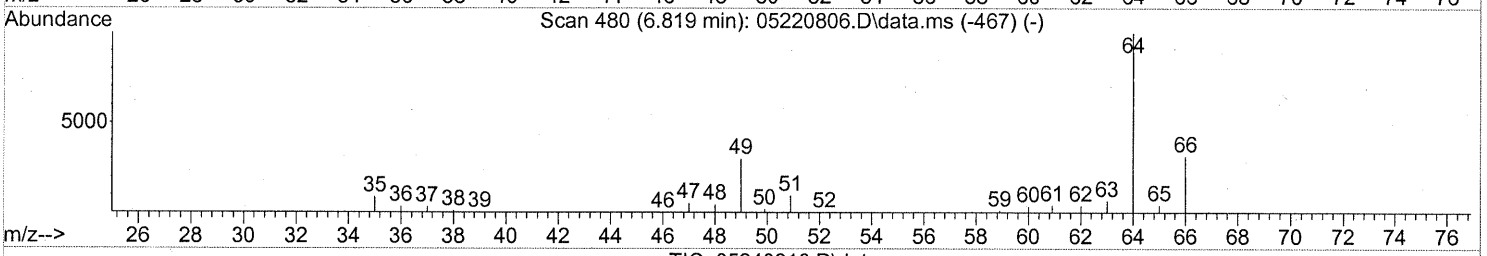
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(9) Chloroethane (T)

6.830min (+0.006) 0.11ng

response 2892

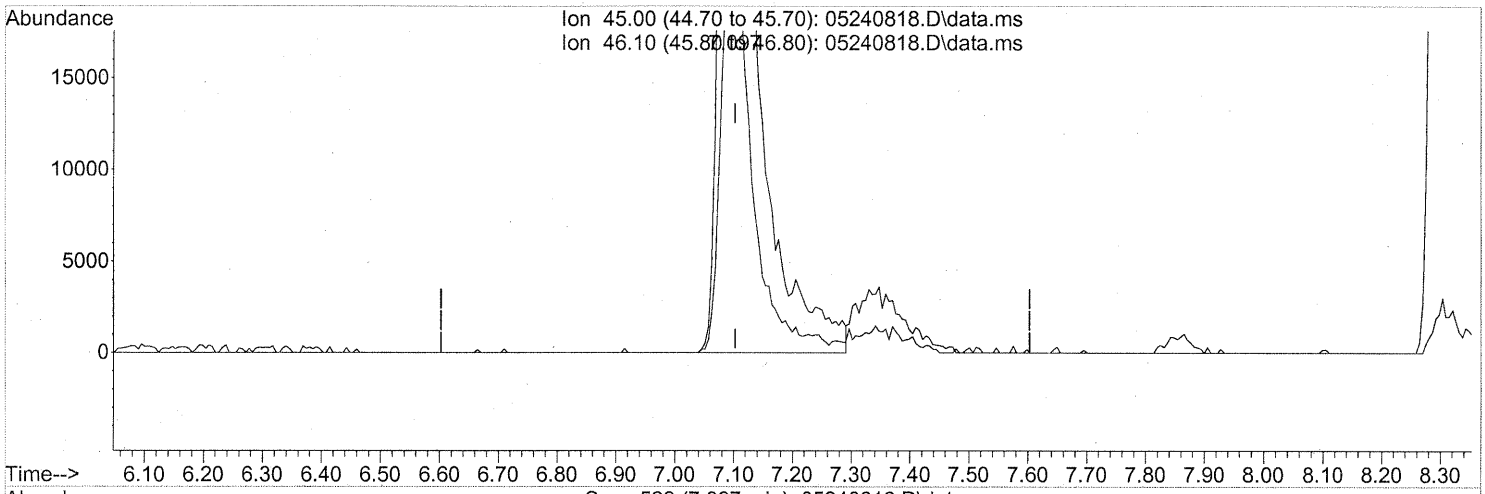
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	29.39
0.00	0.00	0.00
0.00	0.00	0.00

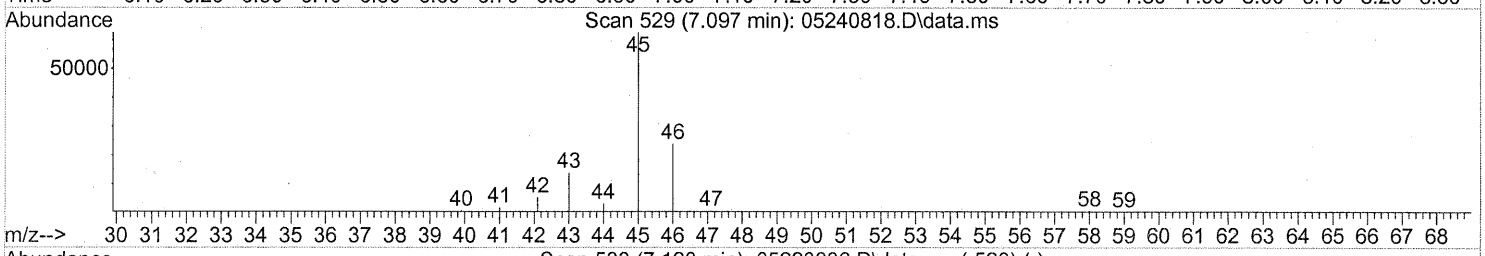
564

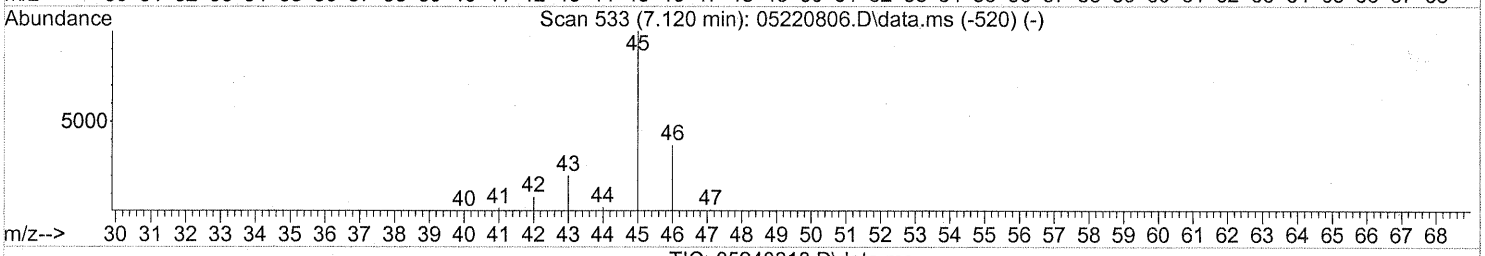
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 7.55ng

response 224113

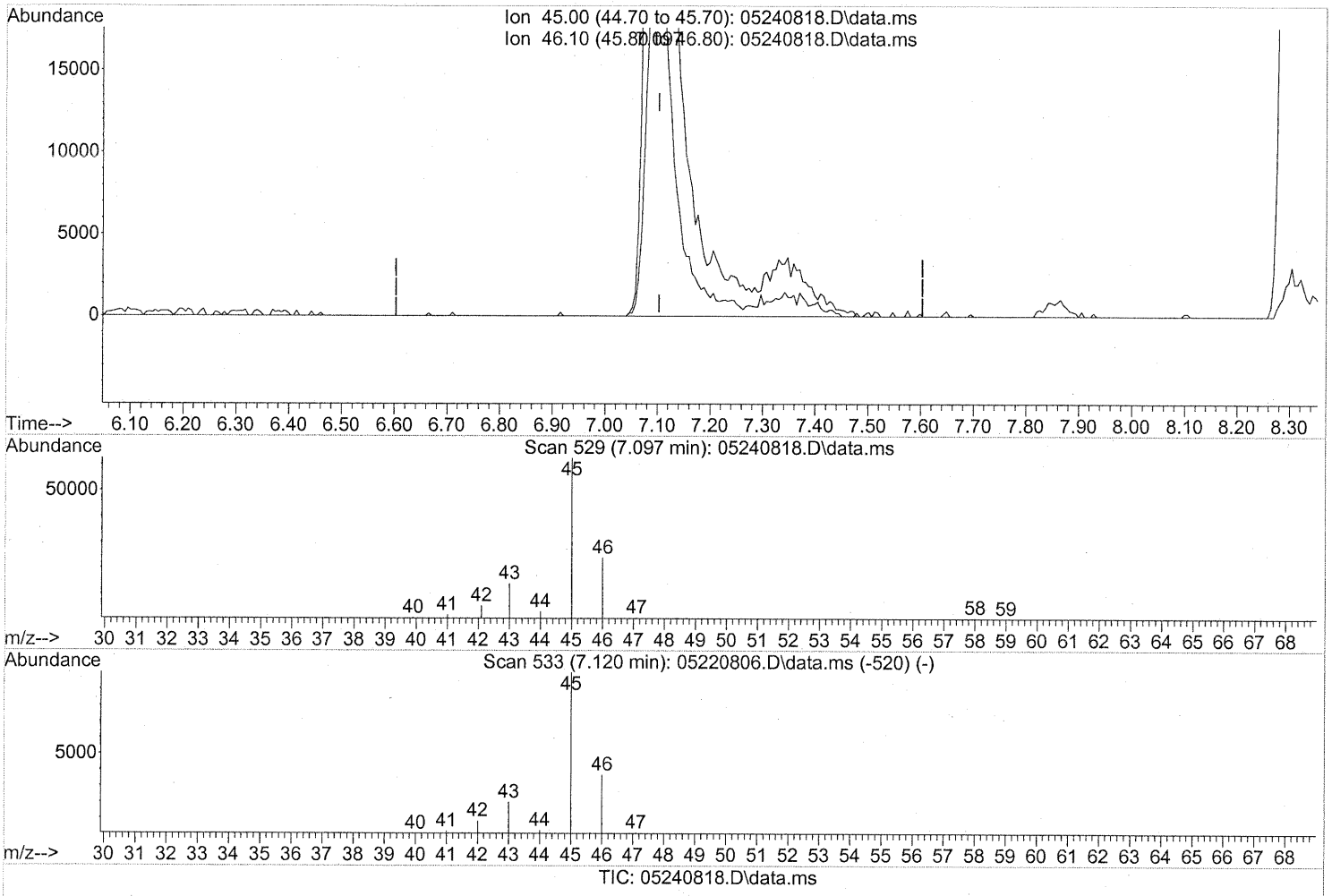
split plate

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 8.21ng m

response 243501

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.30
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
DH 5/29/08

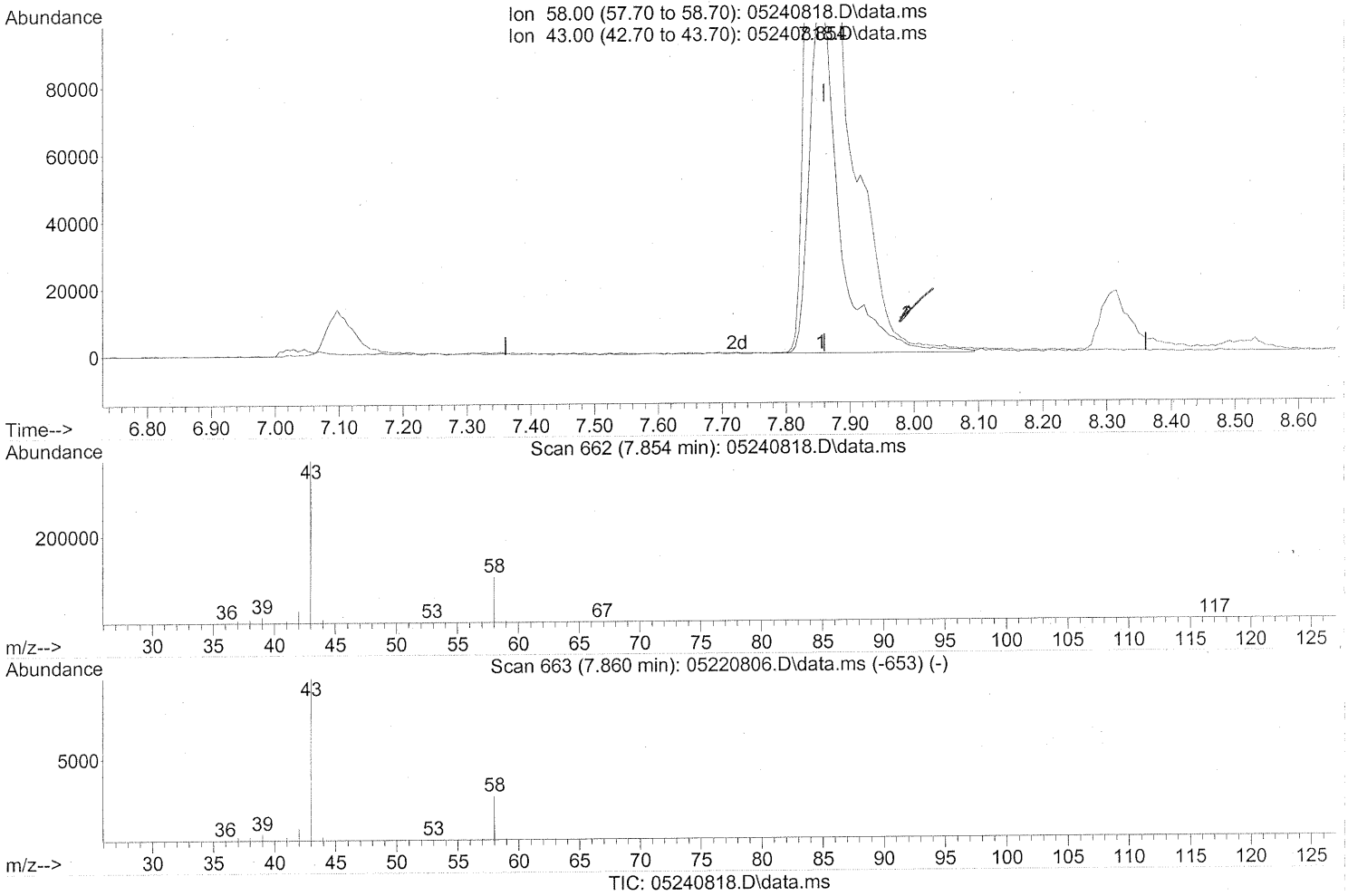
WH 5/30/08

566

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA 4 DH 5/29/08
Sample : P0801422-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 09:04:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 11.06ng

interf. shoulder

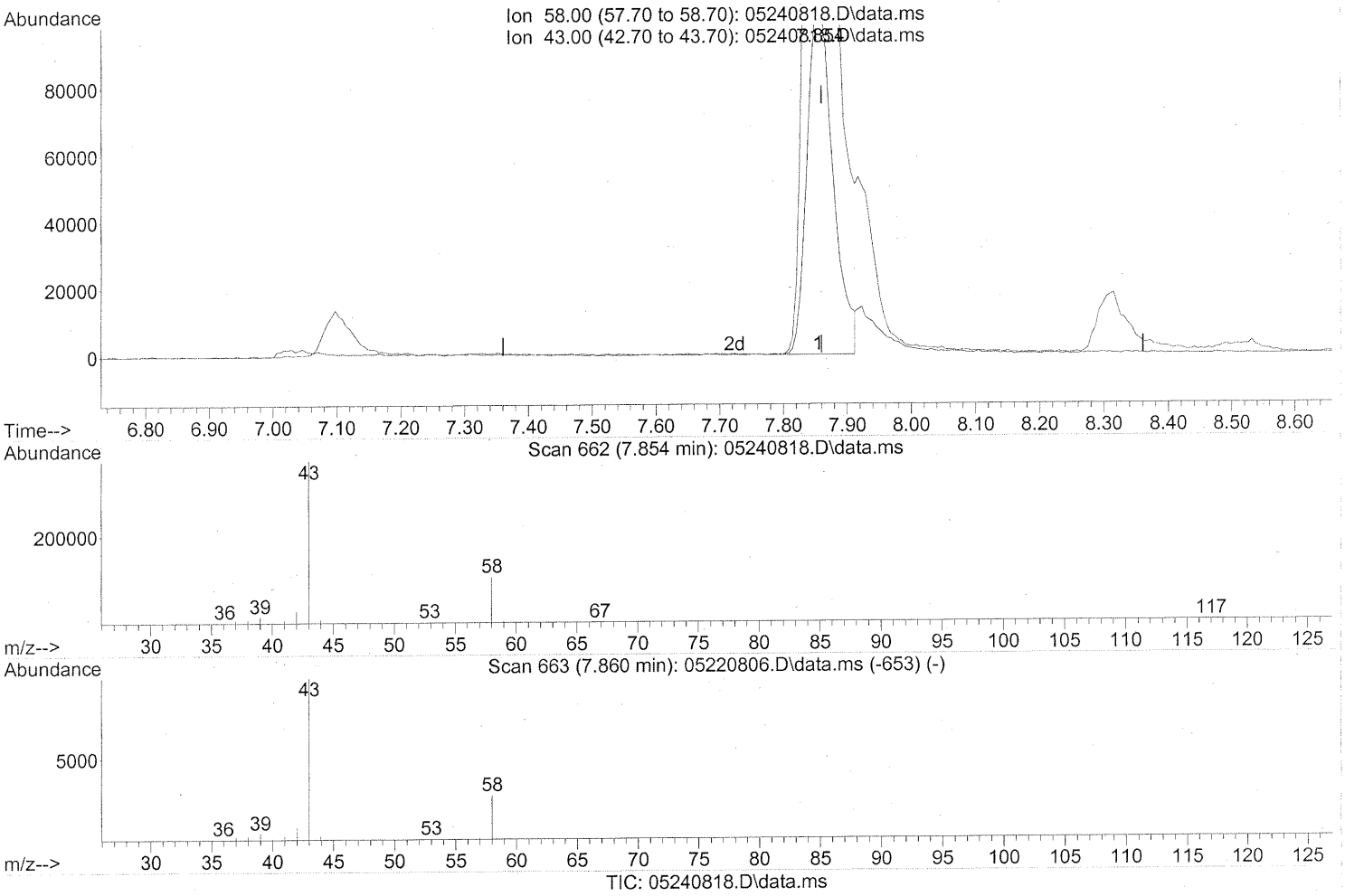
response 336031

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	343.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA 4
Sample : P0801422-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 09:04:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 9.69ng m

response 294331

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	392.04#
0.00	0.00	0.00
0.00	0.00	0.00

int. w/o shoulder

SDH 5/29/08

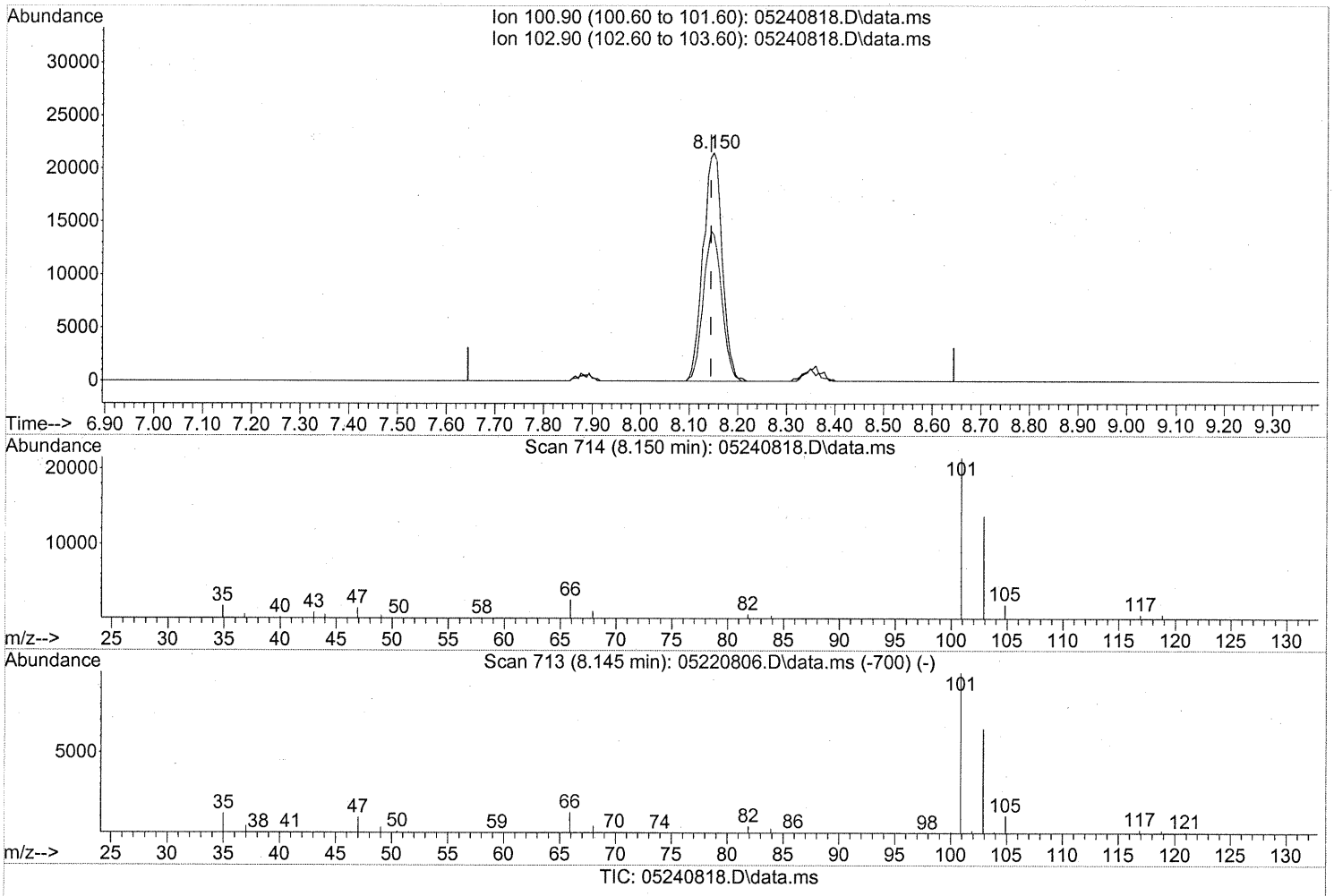
WA 5/30/08

568

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.83ng

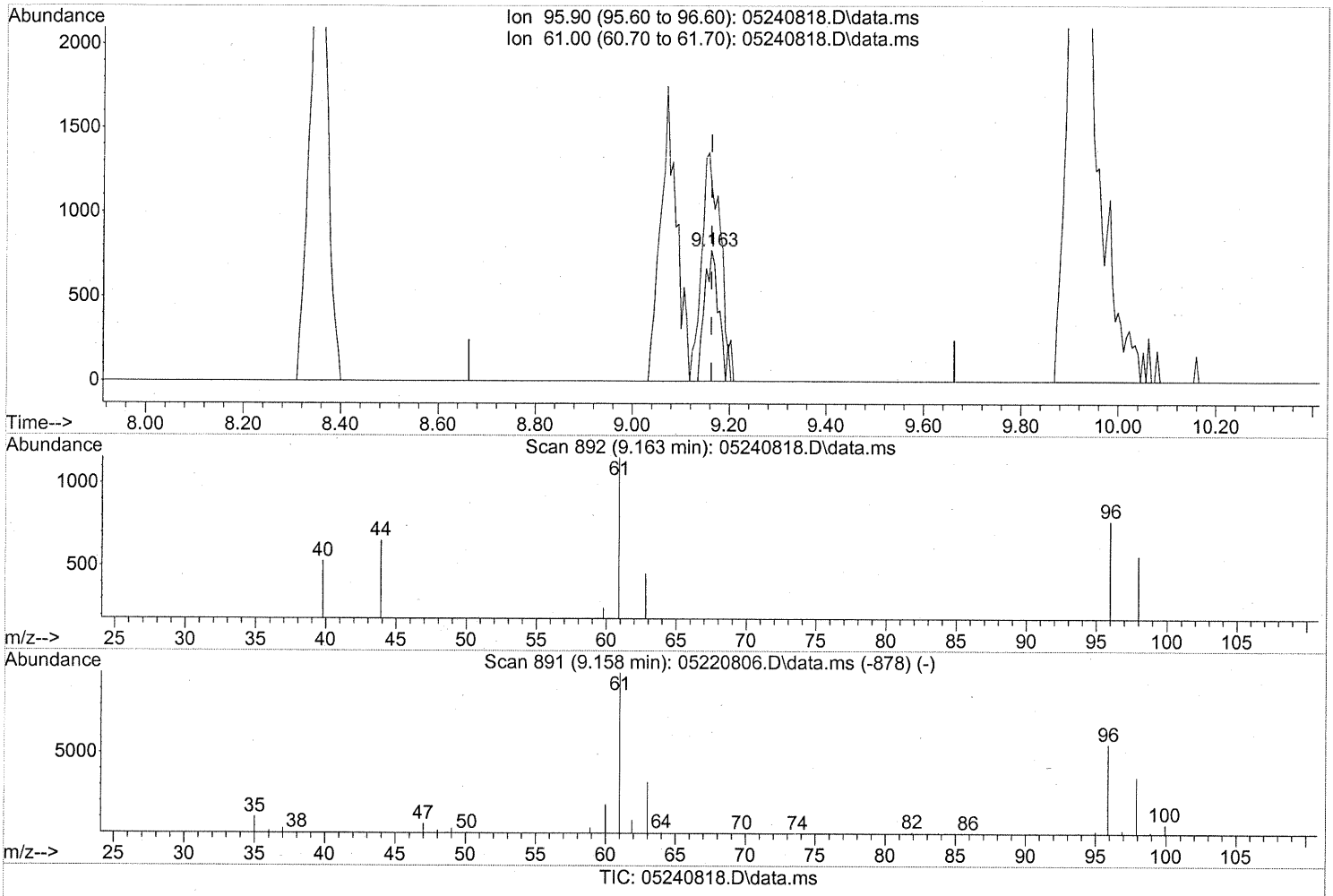
response 58574

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.05ng

response 1586

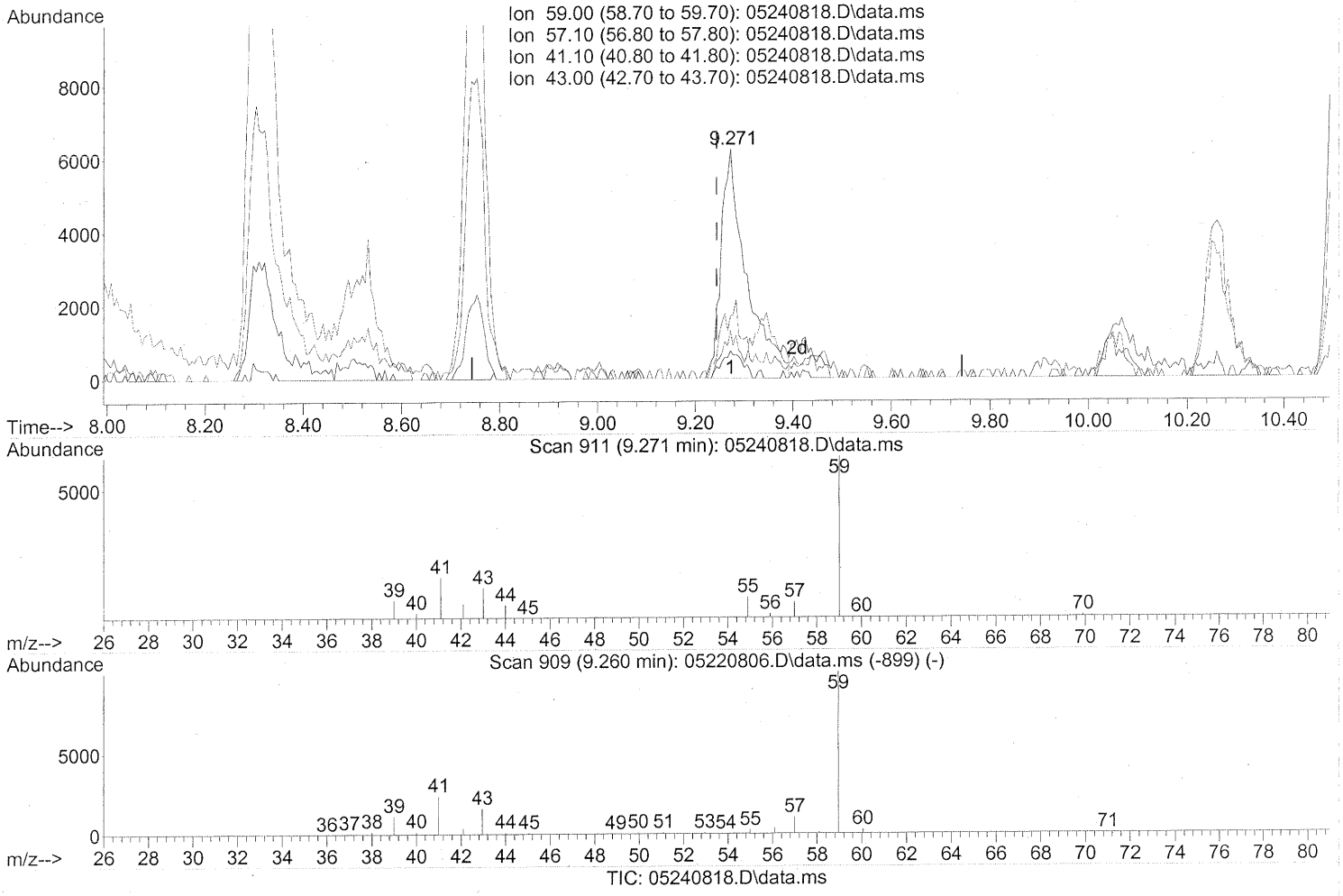
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	229.32
0.00	0.00	0.00
0.00	0.00	0.00

570

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801422-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 09:04:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.28ng

response 23056

tailing

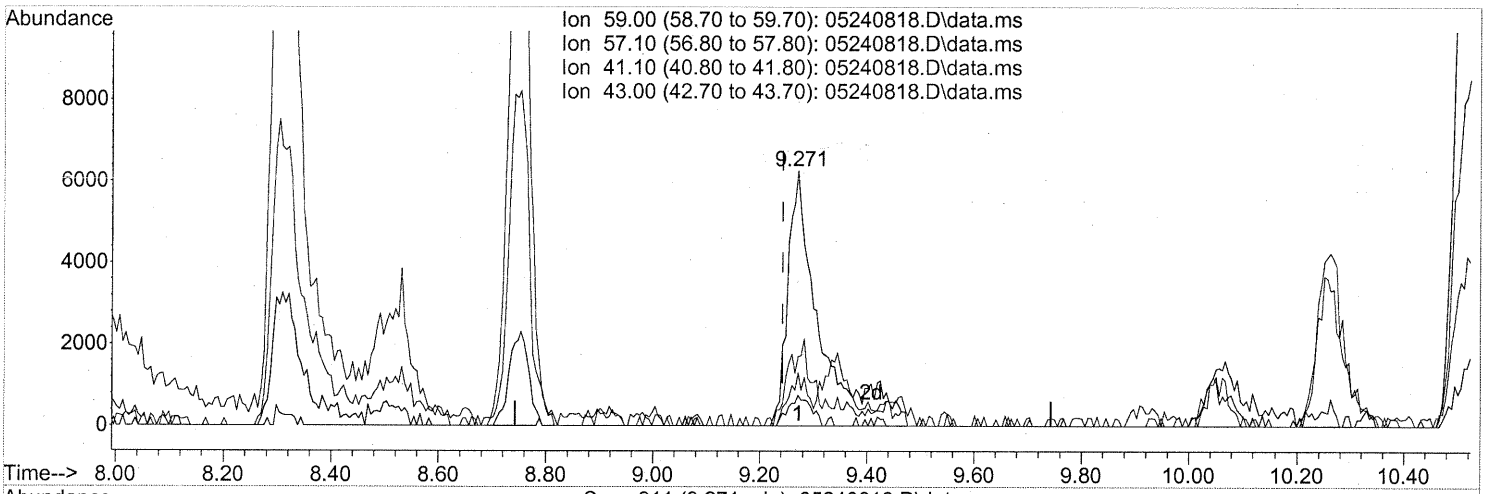
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	9.25
41.10	20.10	21.34
43.00	12.30	13.26

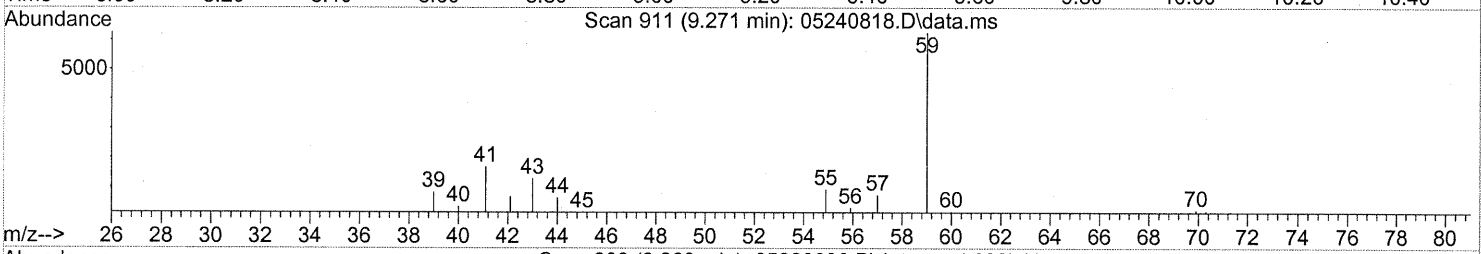
571

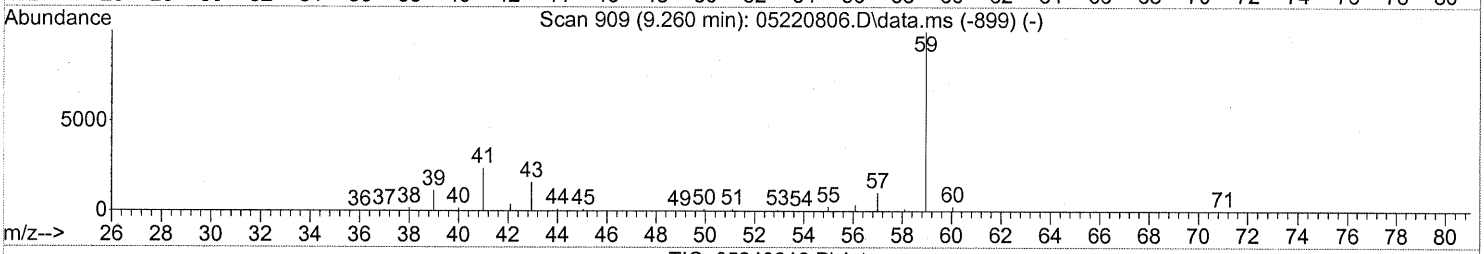
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(18) tert-Butanol (T)

9.271min (+0.028) 0.32ng m

response 26443

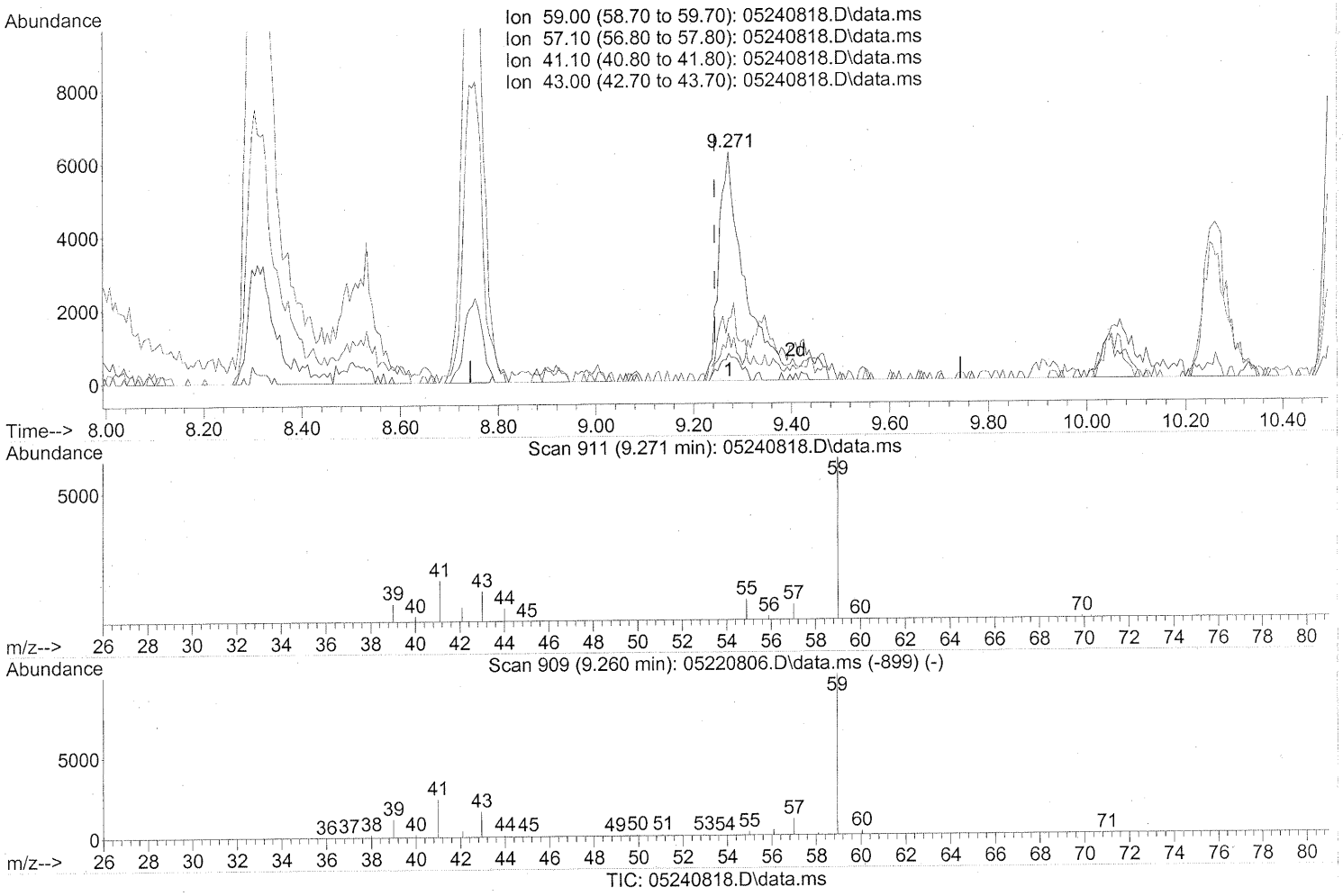
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.07
41.10	20.10	18.61
43.00	12.30	11.56

572

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA DH 5/29/08
Sample : P0801422-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 09:04:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.32ng m

response 26443

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.07
41.10	20.10	18.61
43.00	12.30	11.56

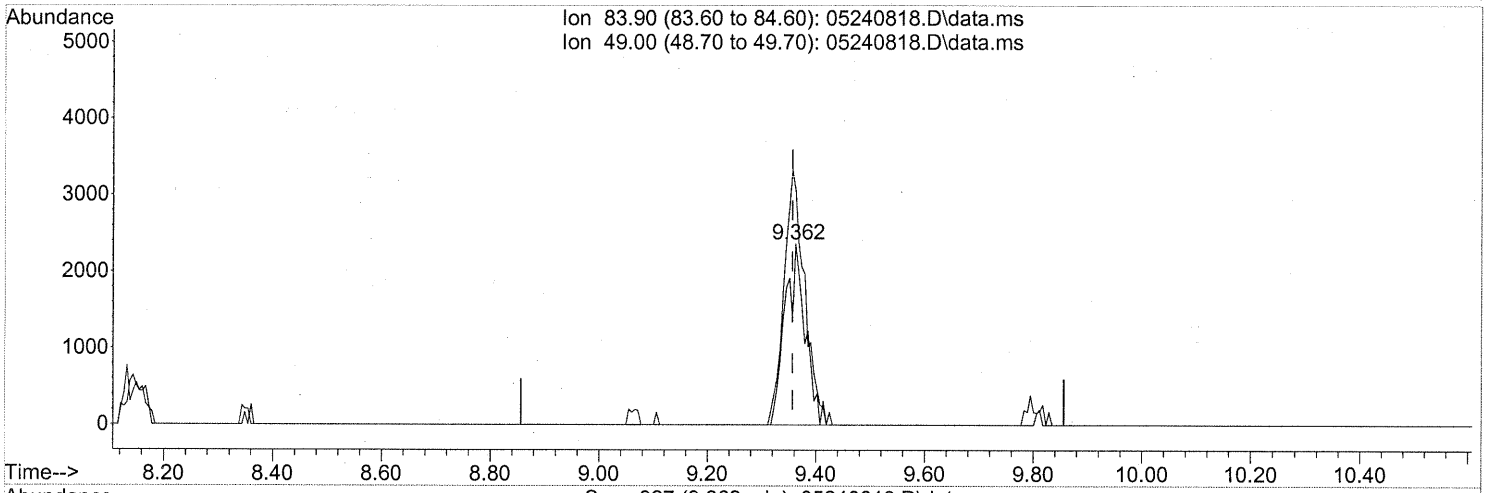
added tailing
DH 5/29/08

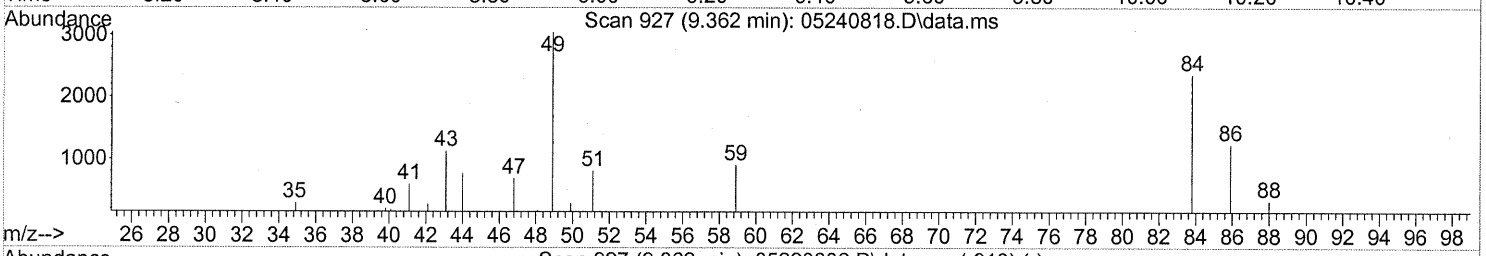
WHS 6/30/08

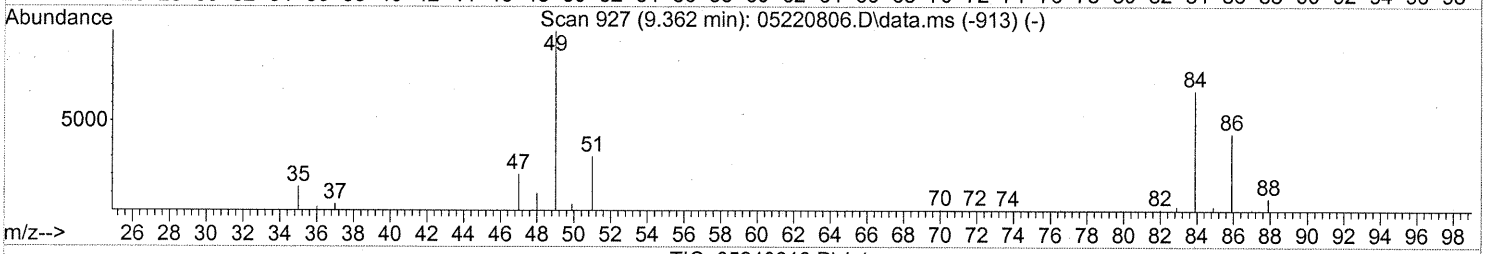
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.18ng

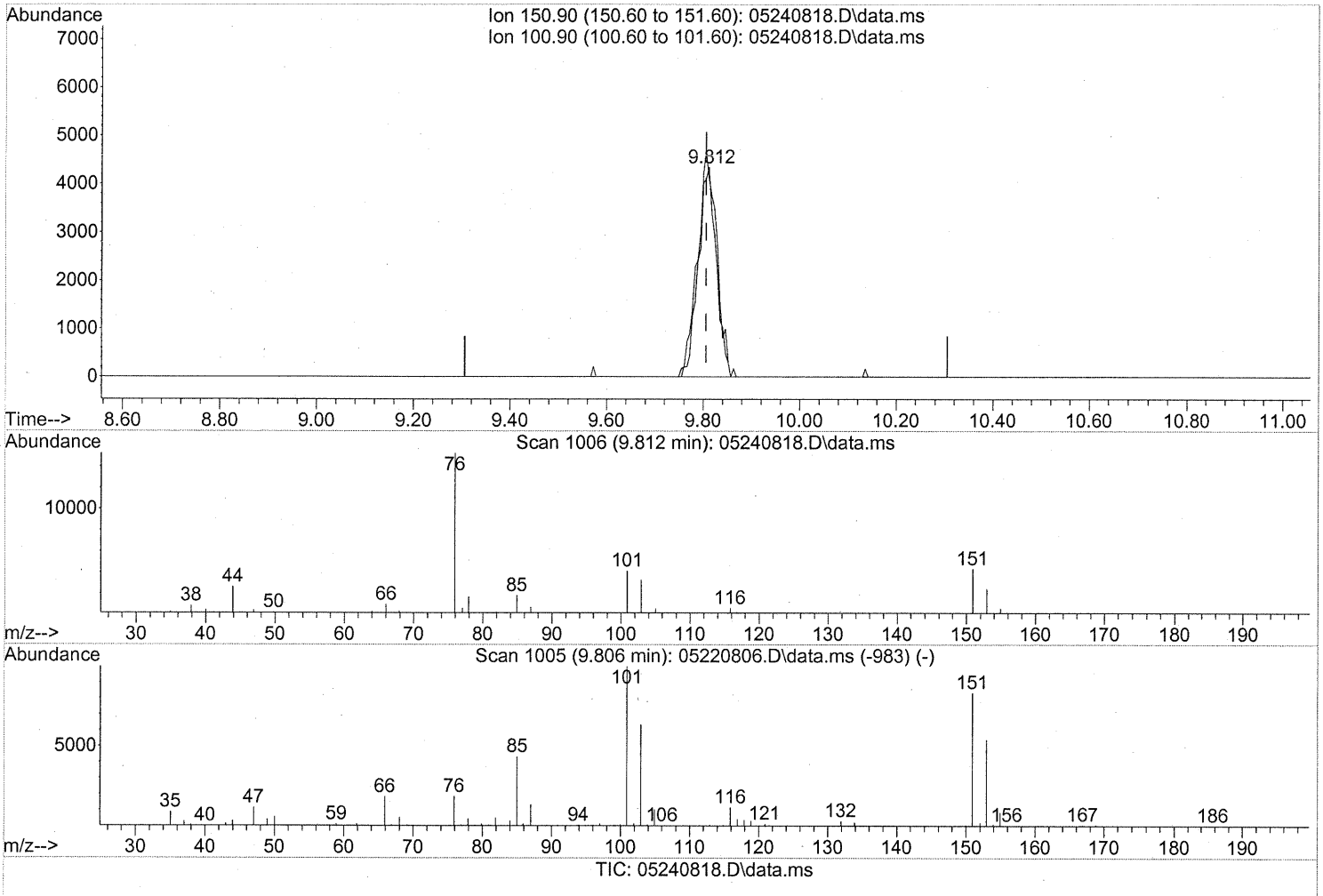
response 6136

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	142.91#
0.00	0.00	0.00
0.00	0.00	0.00

574

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(21) Trichlorotrifluoroethane (T)

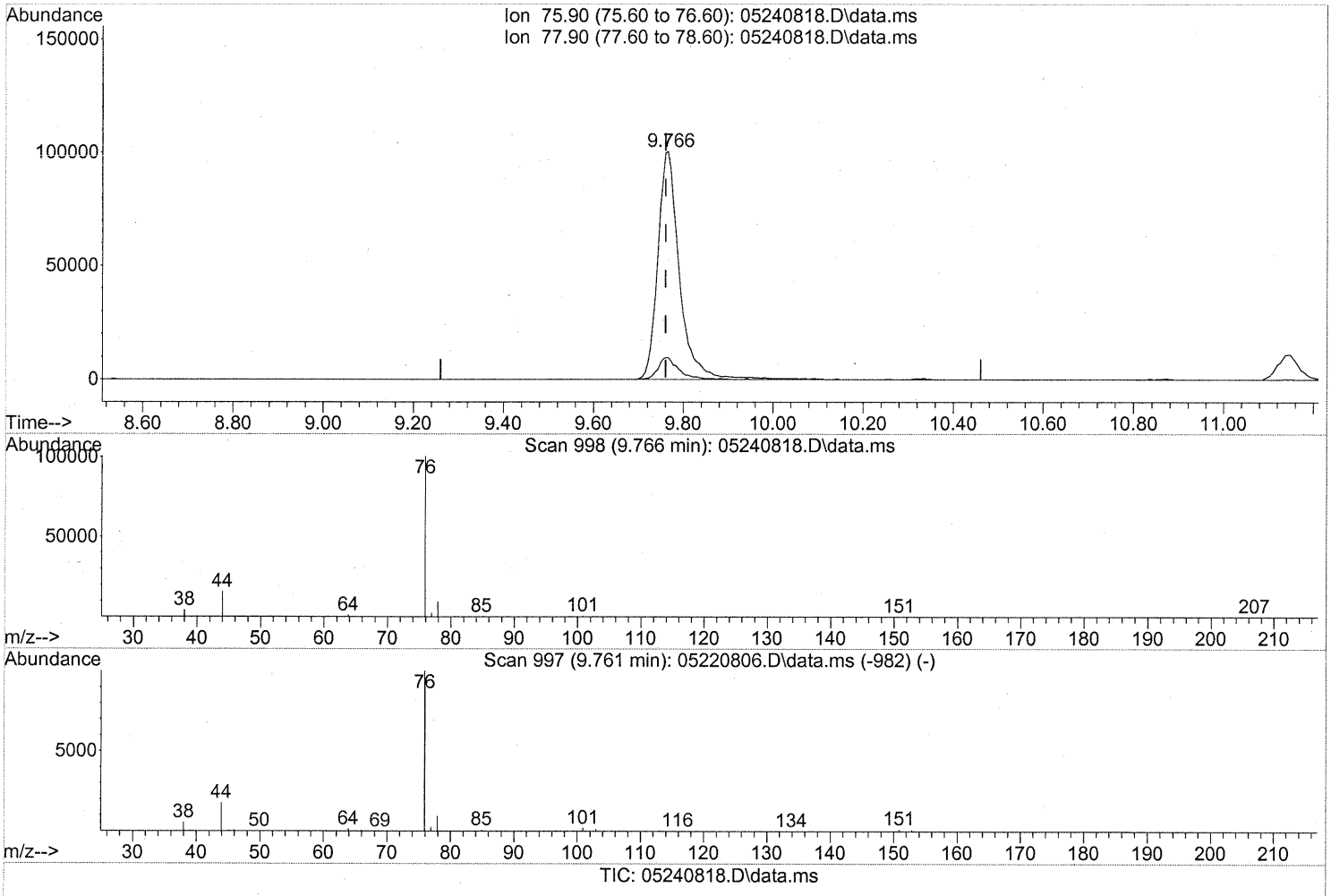
9.812min (+0.006) 0.35ng

response 11211

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	115.01
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(22) Carbon Disulfide (T)

9.766min (+0.006) 2.58ng

response 332595

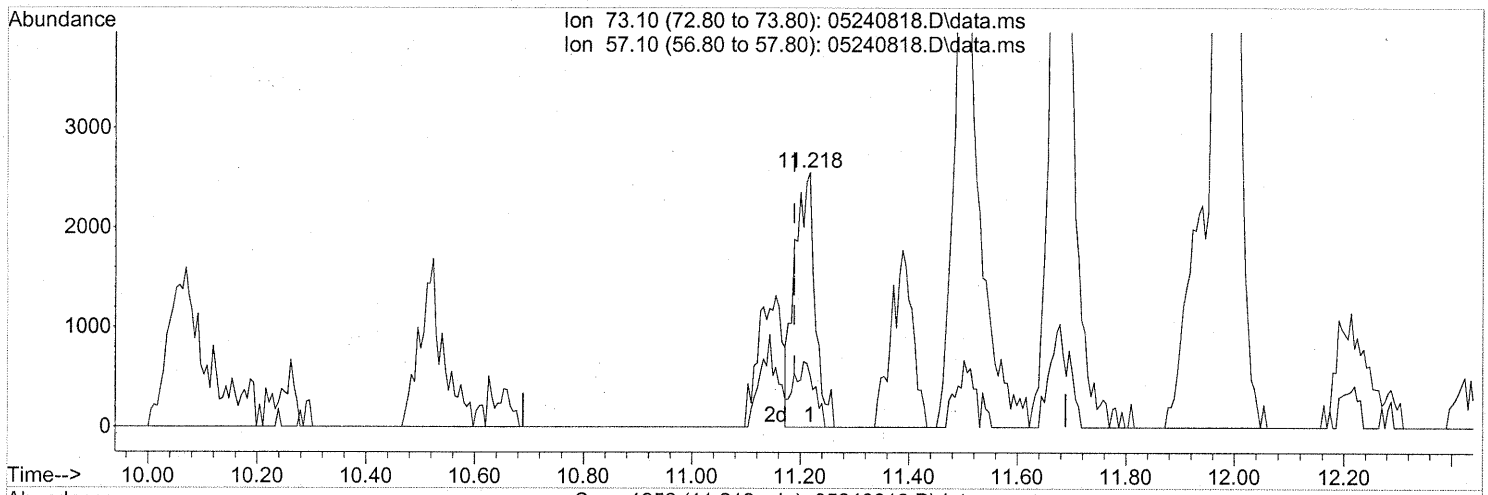
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.93
0.00	0.00	0.00
0.00	0.00	0.00

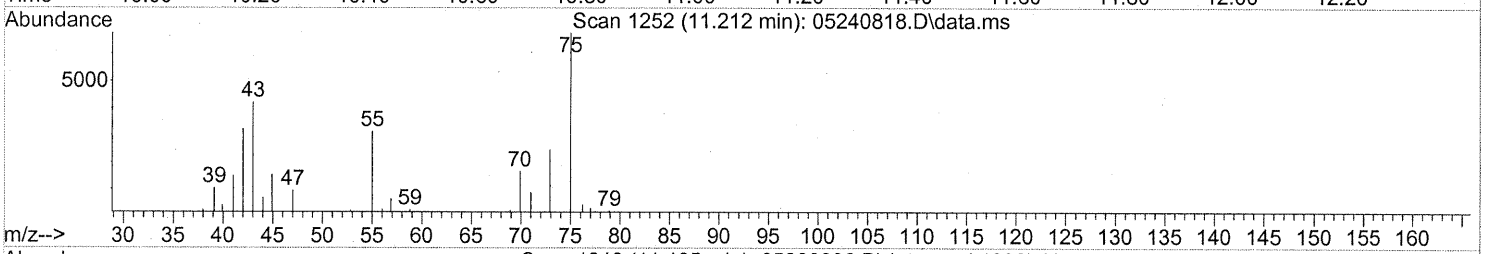
576

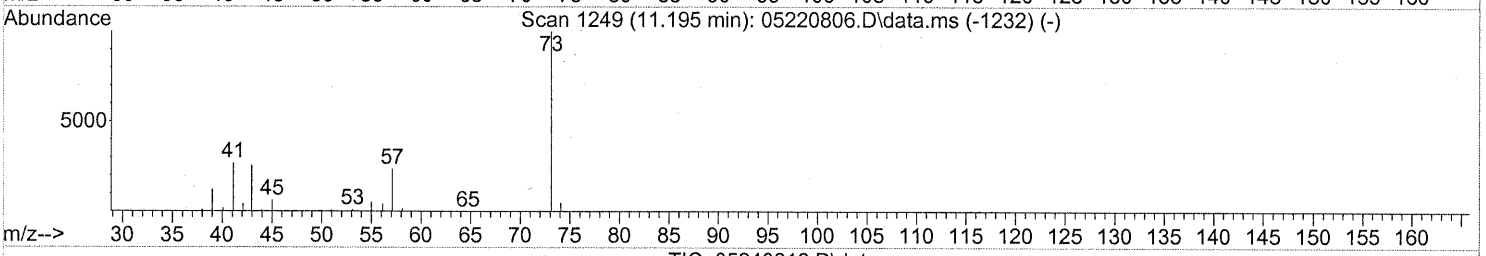
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.218min (+0.028) 0.07ng

response 6701

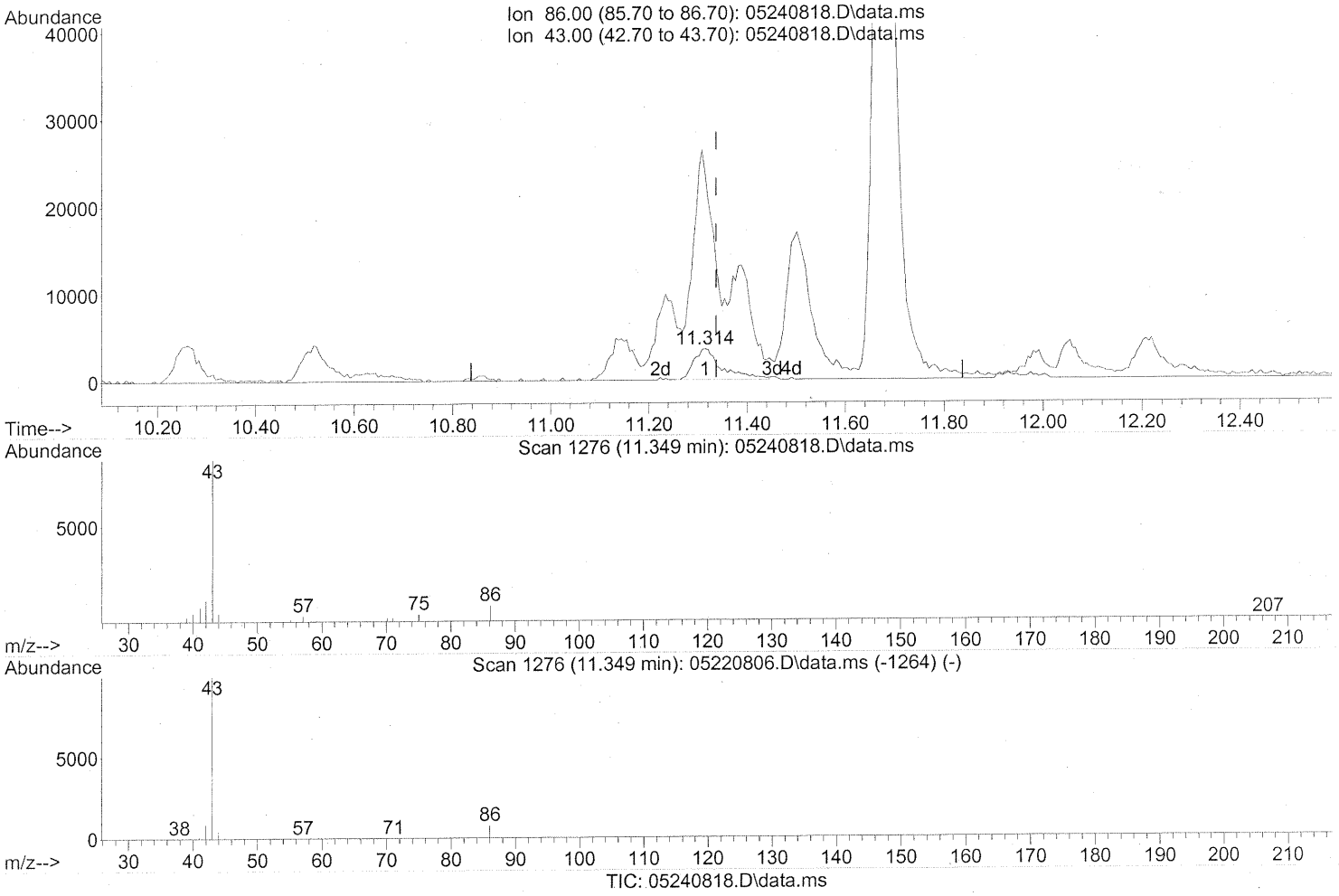
Ion	Exp%	Act%
73.10	100	100
57.10	31.40	24.46
0.00	0.00	0.00
0.00	0.00	0.00

577

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801422-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 09:04:53 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 2.48ng

response 13929

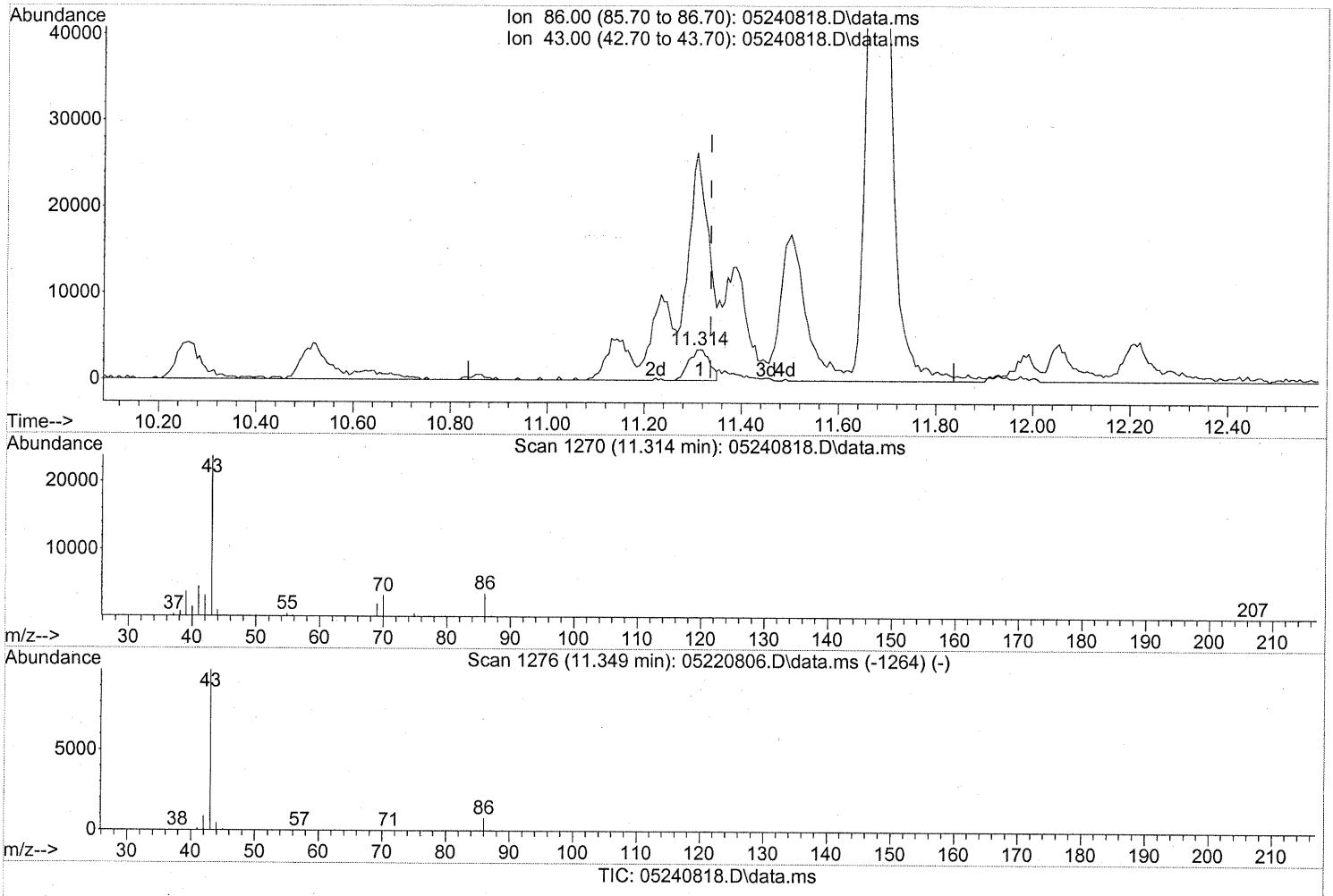
tailing

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	587.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(26) Vinyl Acetate (T)

11.314min (-0.023) 1.87ng m

response 10498

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	779.71#
0.00	0.00	0.00
0.00	0.00	0.00

Po. tailing
5/29/08

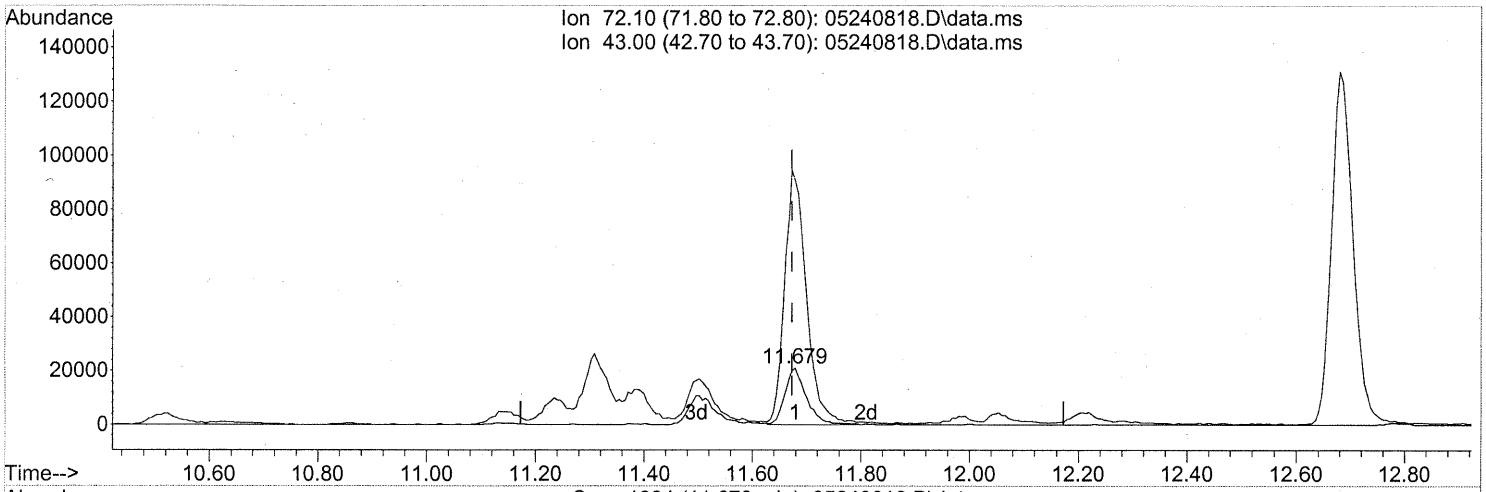
WK 5/30/08

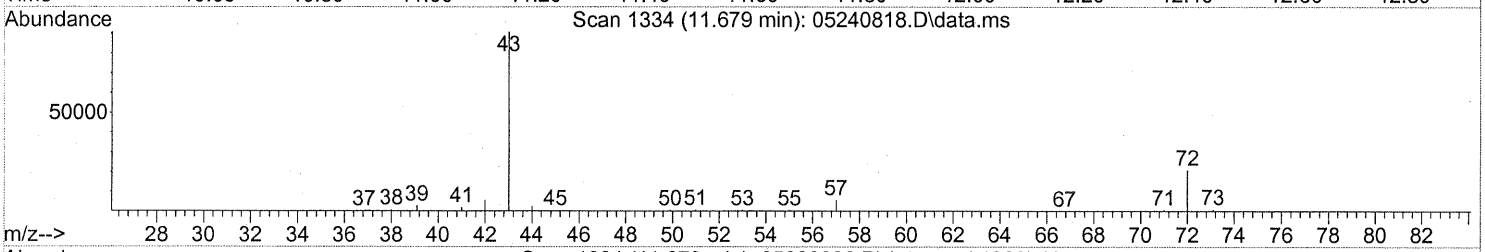
579

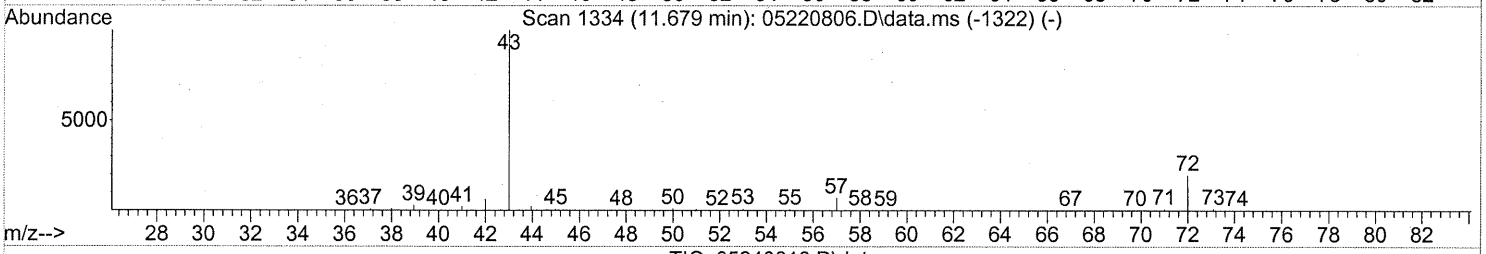
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 2.57ng

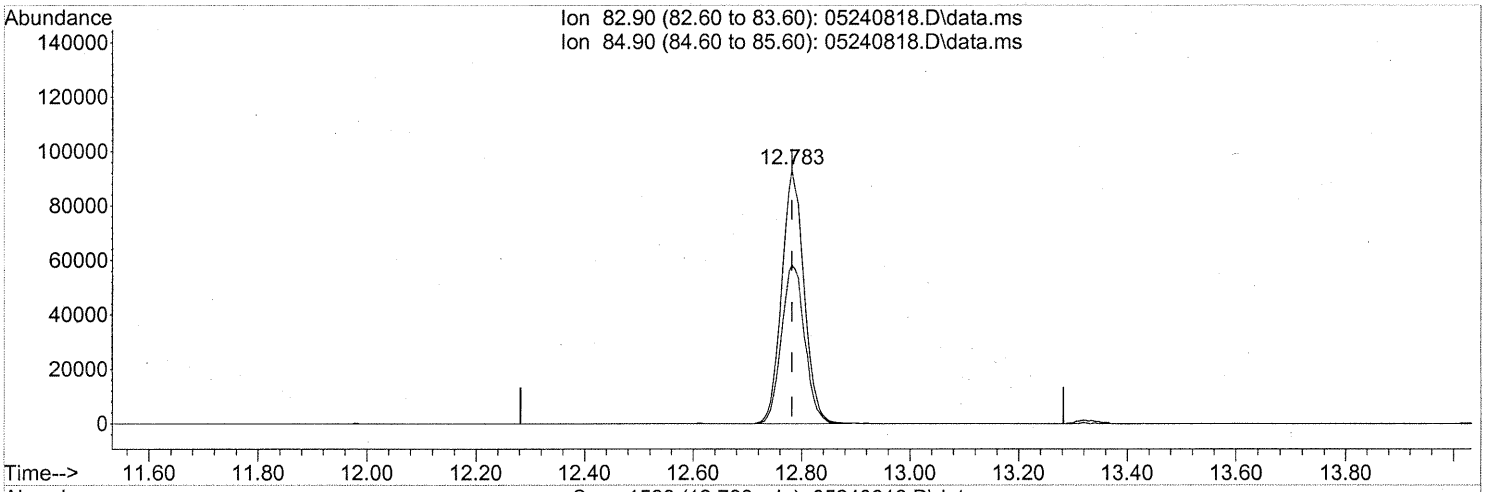
response 56954

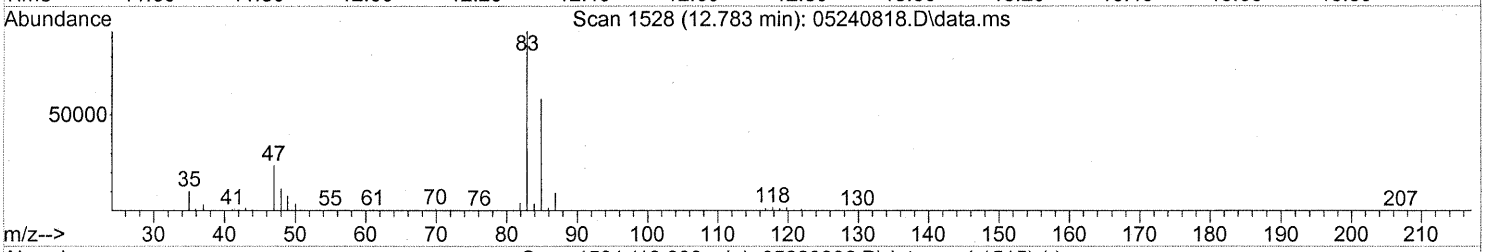
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	458.53#
0.00	0.00	0.00
0.00	0.00	0.00

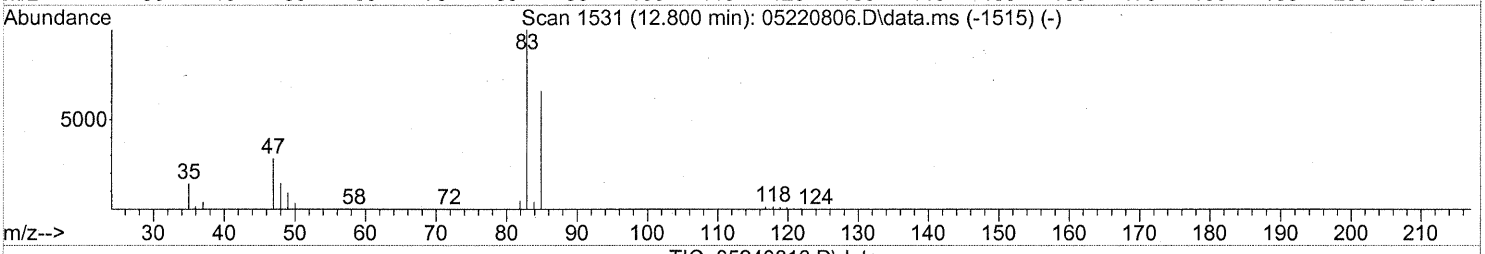
580

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(32) Chloroform (T)

12.783min (-0.000) 5.17ng

response 265887

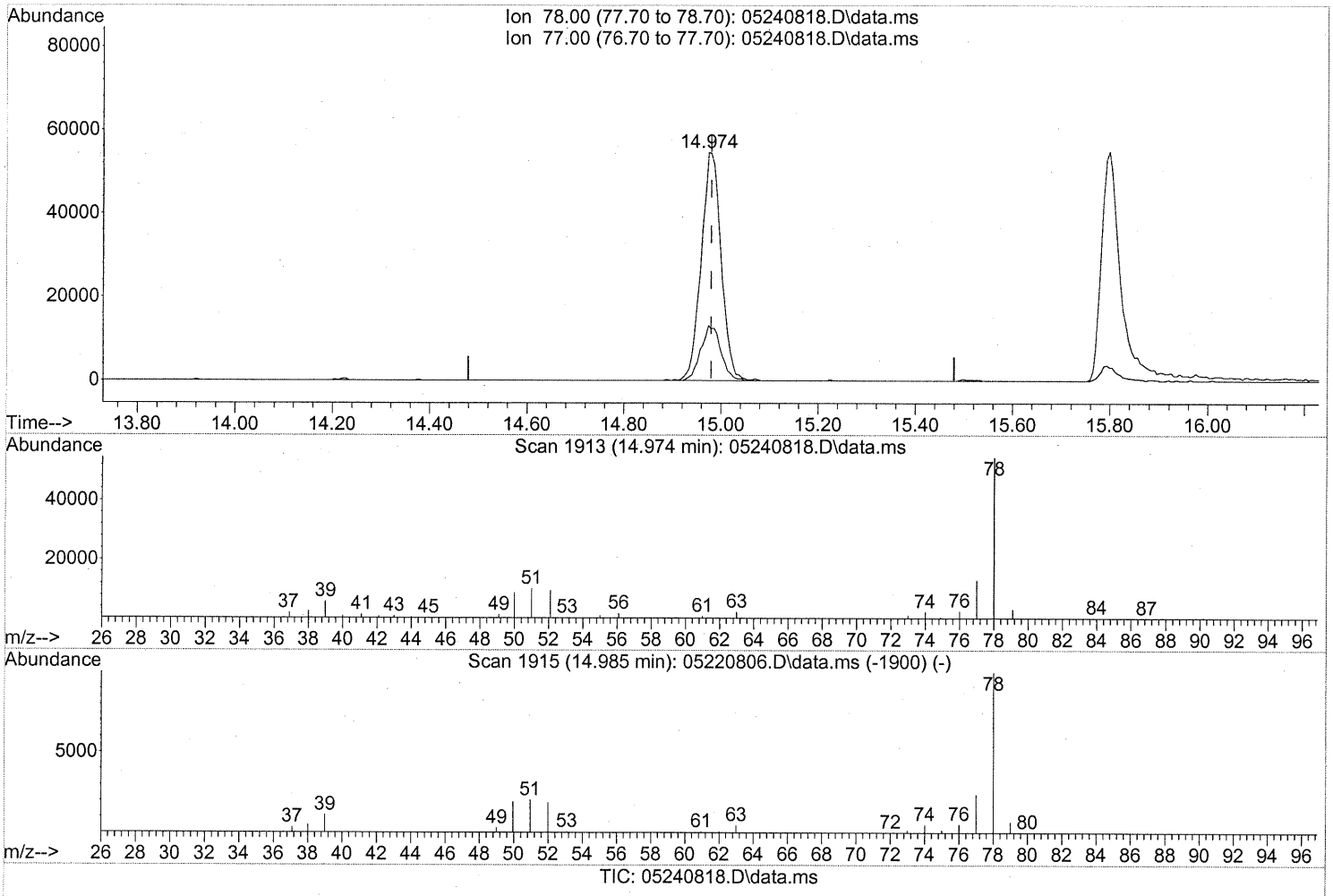
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.19
0.00	0.00	0.00
0.00	0.00	0.00

581

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(41) Benzene (T)

14.974min (-0.006) 1.20ng

response 155197

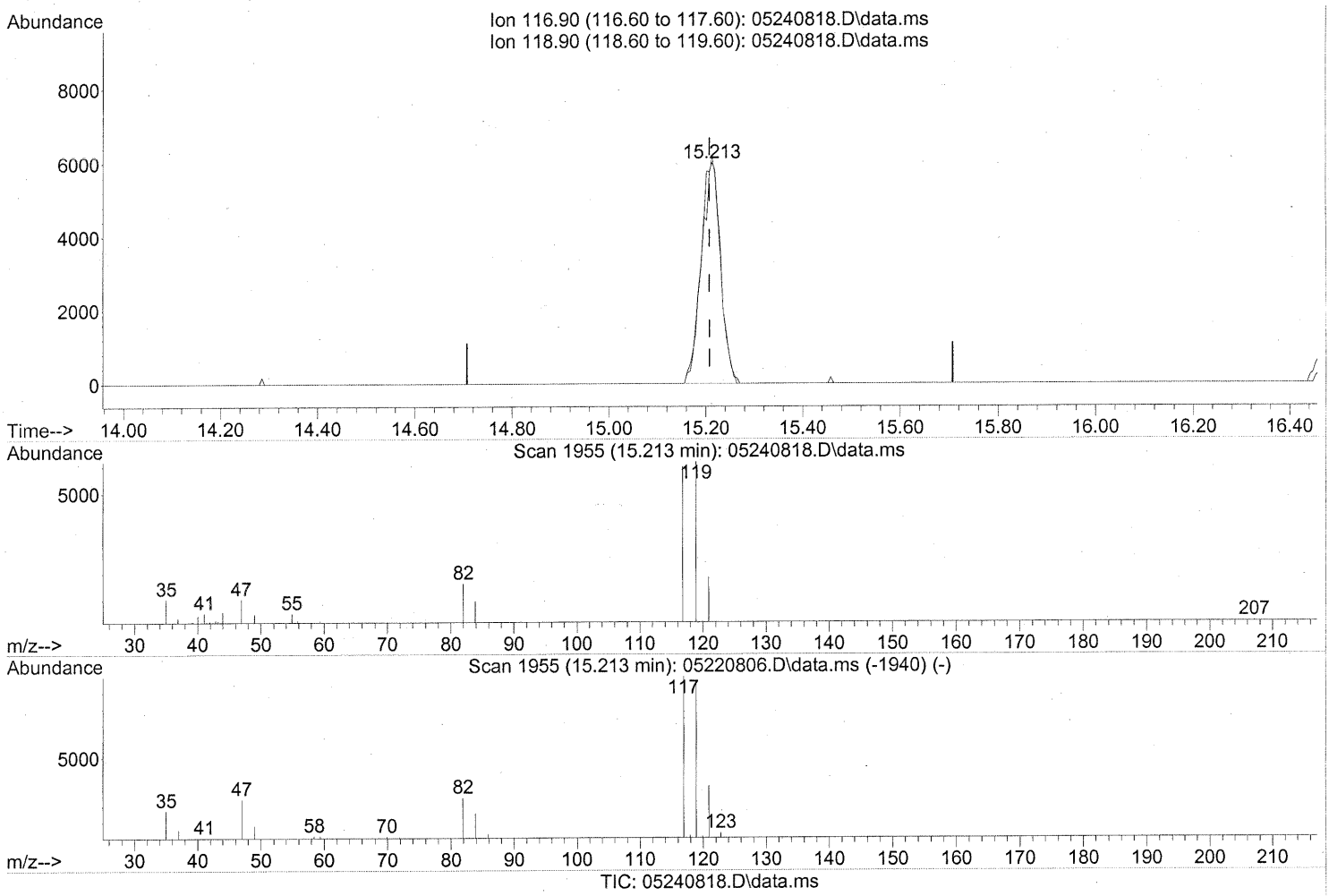
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.08
0.00	0.00	0.00
0.00	0.00	0.00

582

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 6:50 pm
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 06:06:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.34ng

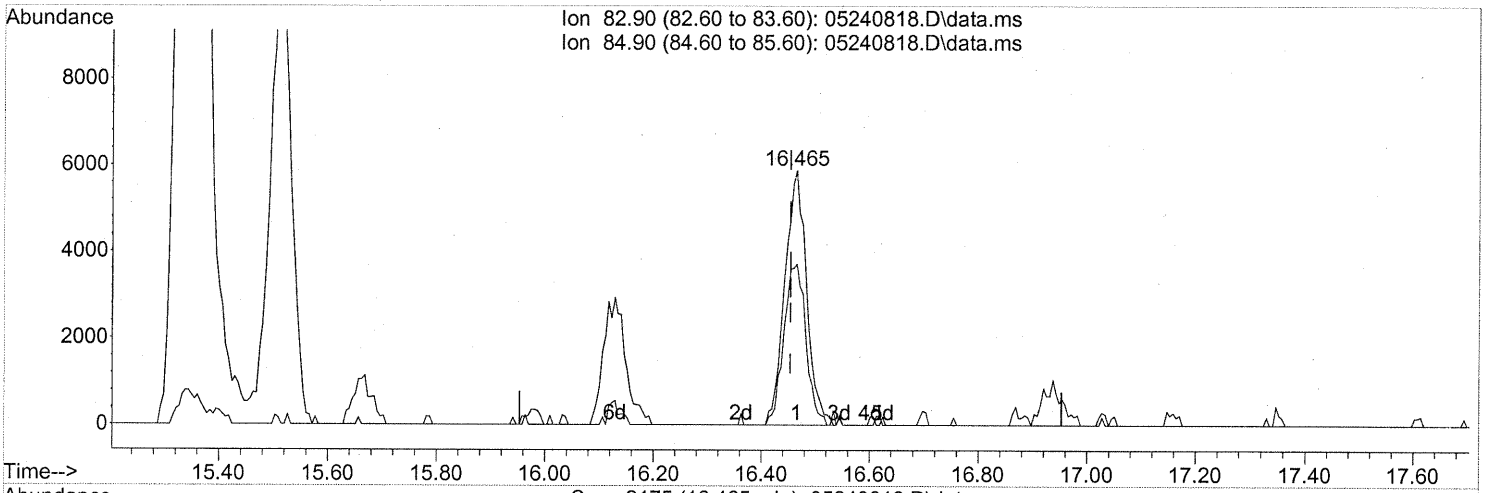
response 17059

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(46) Bromodichloromethane (T)

16.465min (+0.011) 0.38ng

response 16405

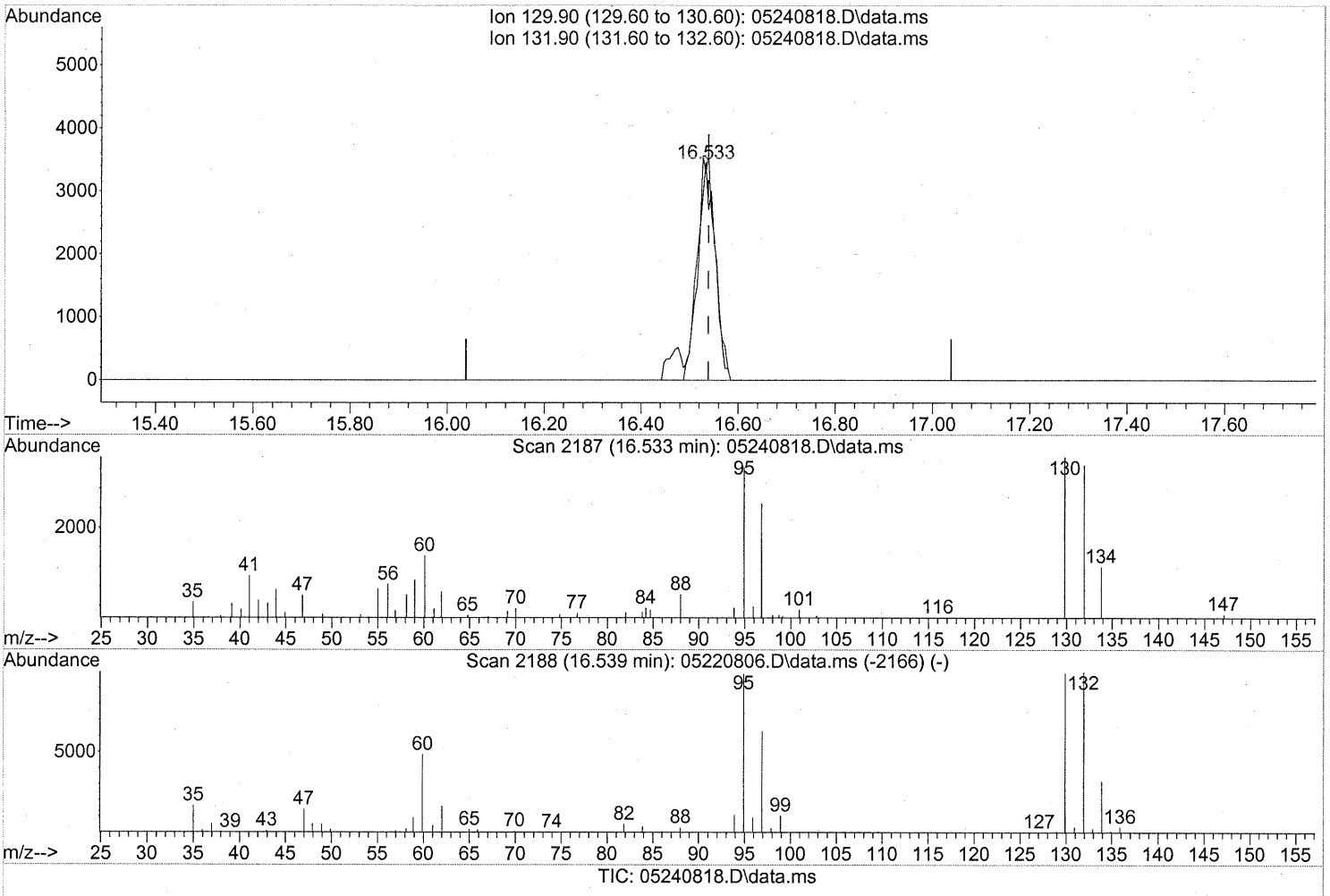
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.02
0.00	0.00	0.00
0.00	0.00	0.00

584

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.22ng

response 8755

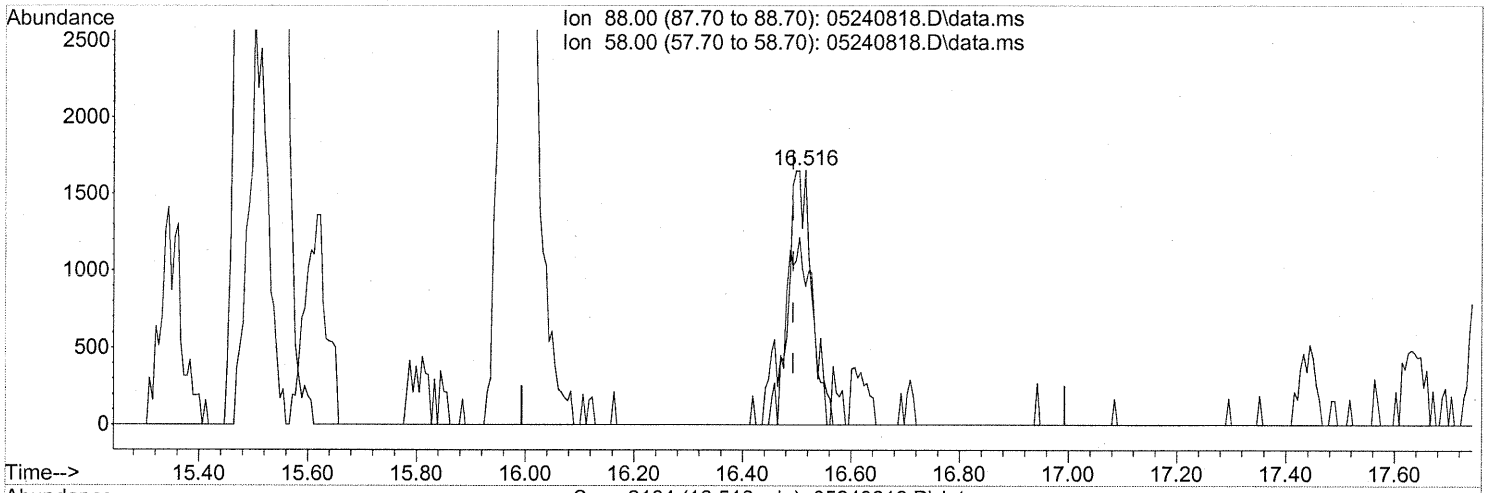
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.61
0.00	0.00	0.00
0.00	0.00	0.00

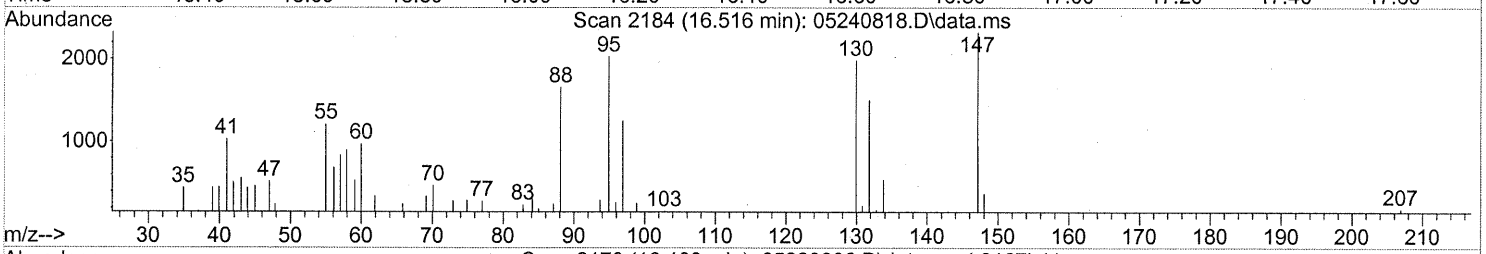
585

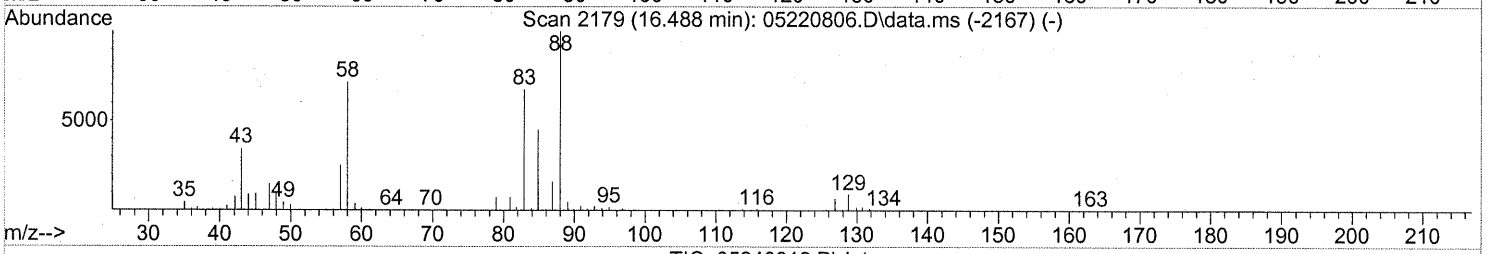
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(48) 1,4-Dioxane (T)

16.516min (+0.023) 0.21ng

response 5017

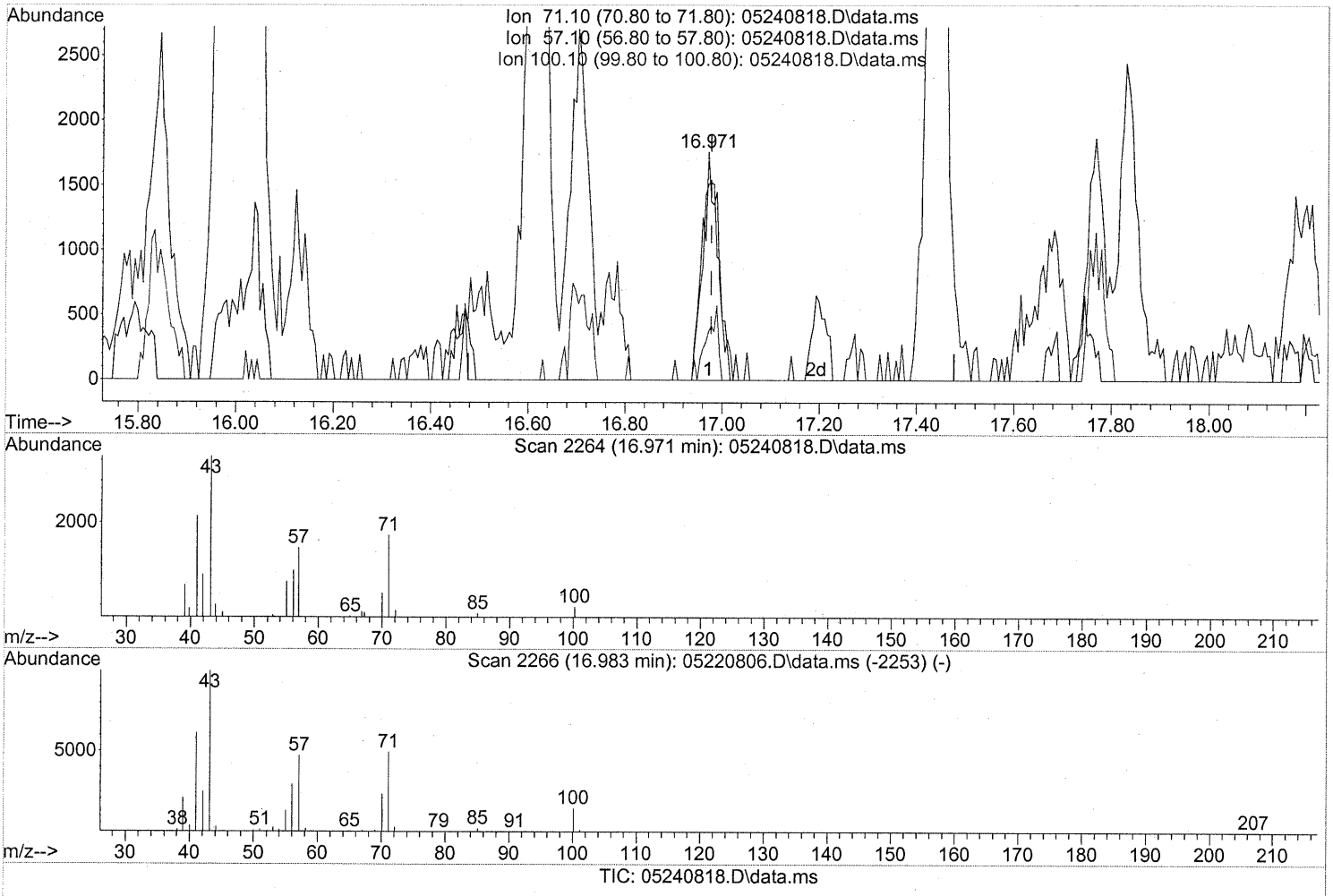
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	78.49
0.00	0.00	0.00
0.00	0.00	0.00

586

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(51) n-Heptane (T)

16.971min (-0.006) 0.12ng

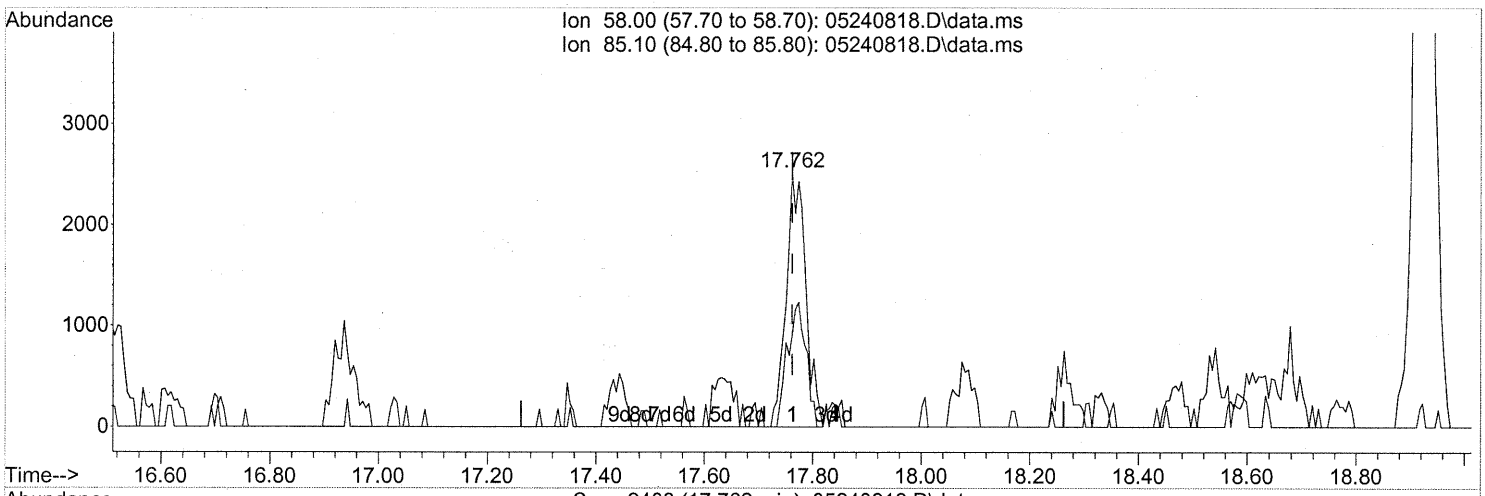
response 4031

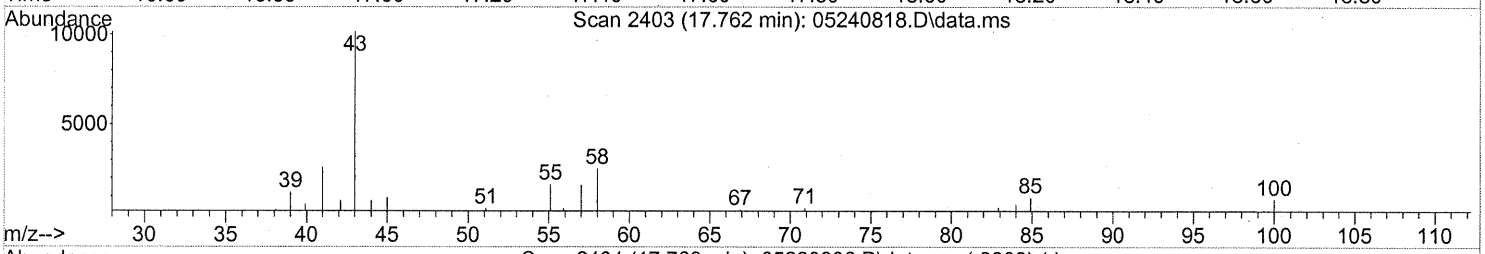
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	97.82#
100.10	30.10	23.59
0.00	0.00	0.00

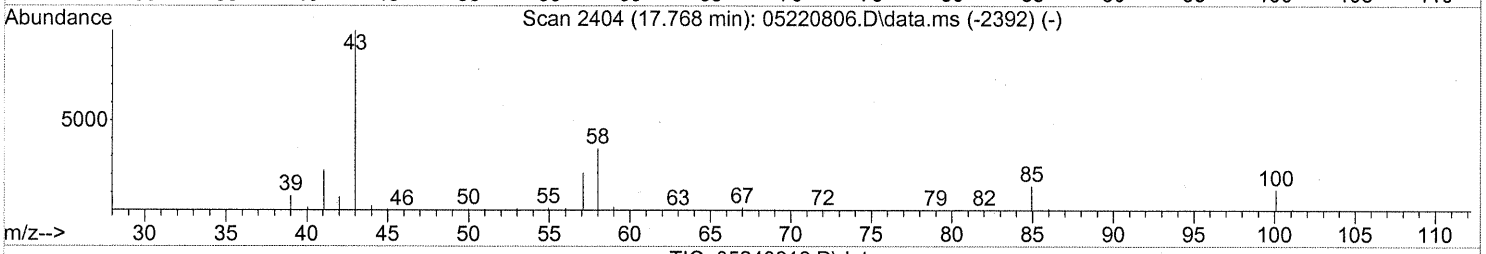
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

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

17.762min (-0.000) 0.18ng

response 6290

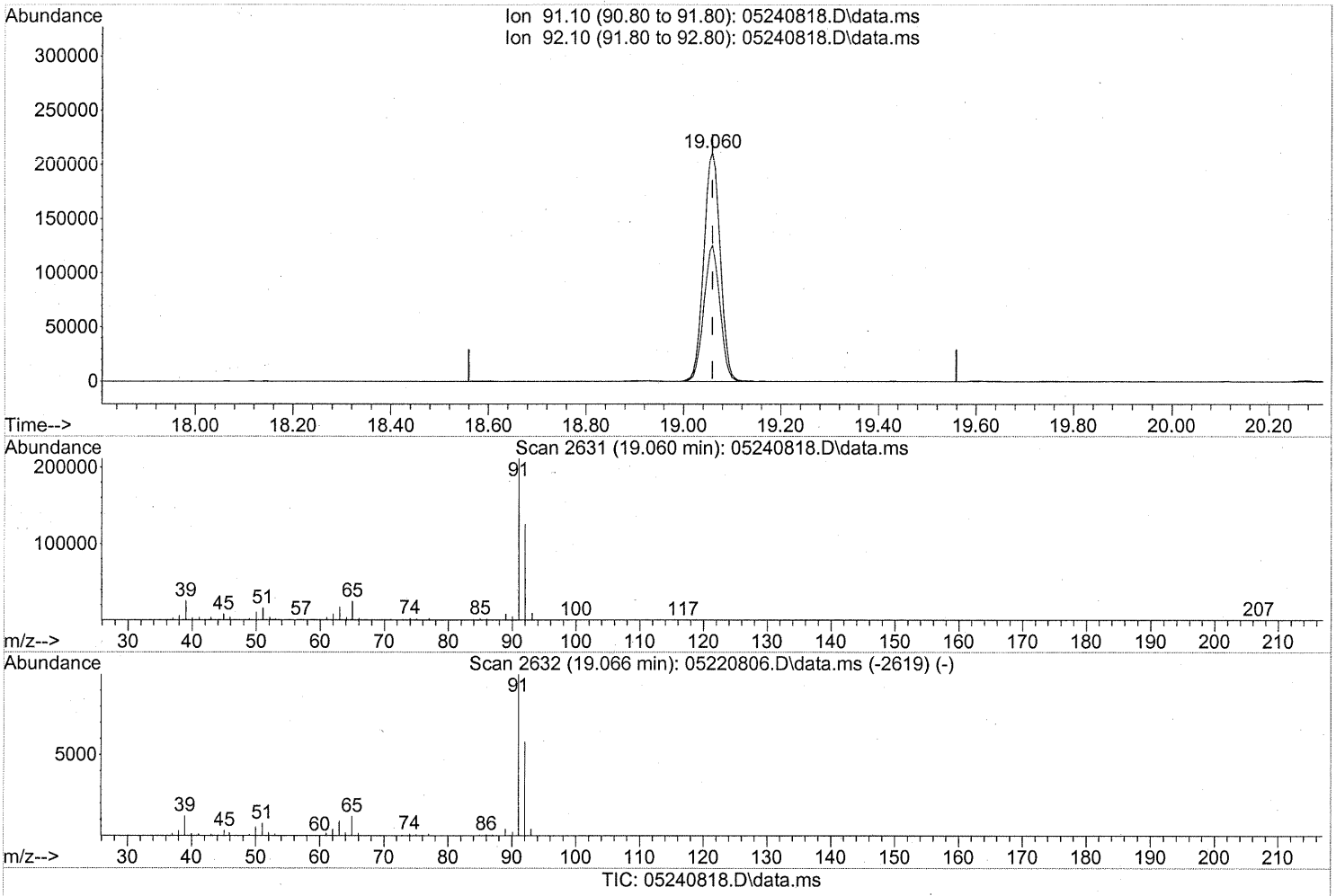
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	46.18
0.00	0.00	0.00
0.00	0.00	0.00

588

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 3.59ng

response 494976

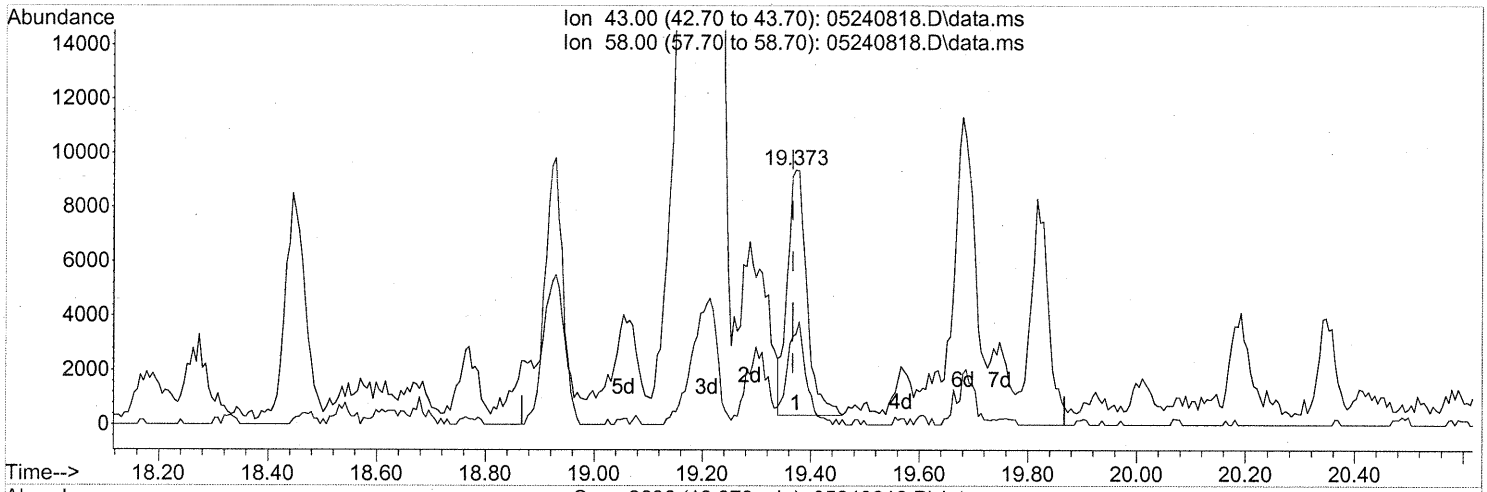
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.91
0.00	0.00	0.00
0.00	0.00	0.00

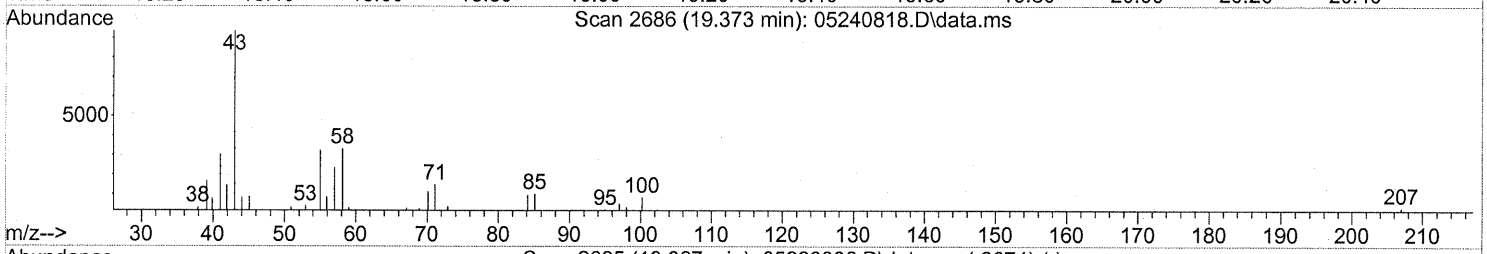
589

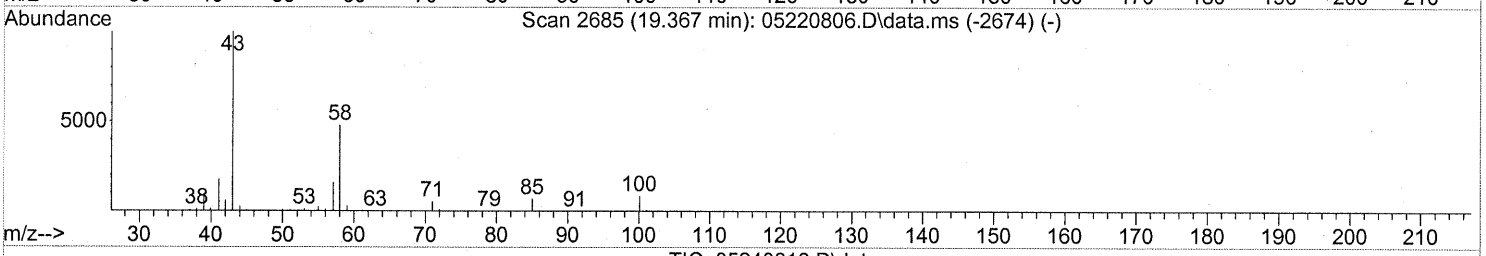
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.24ng

response 22427

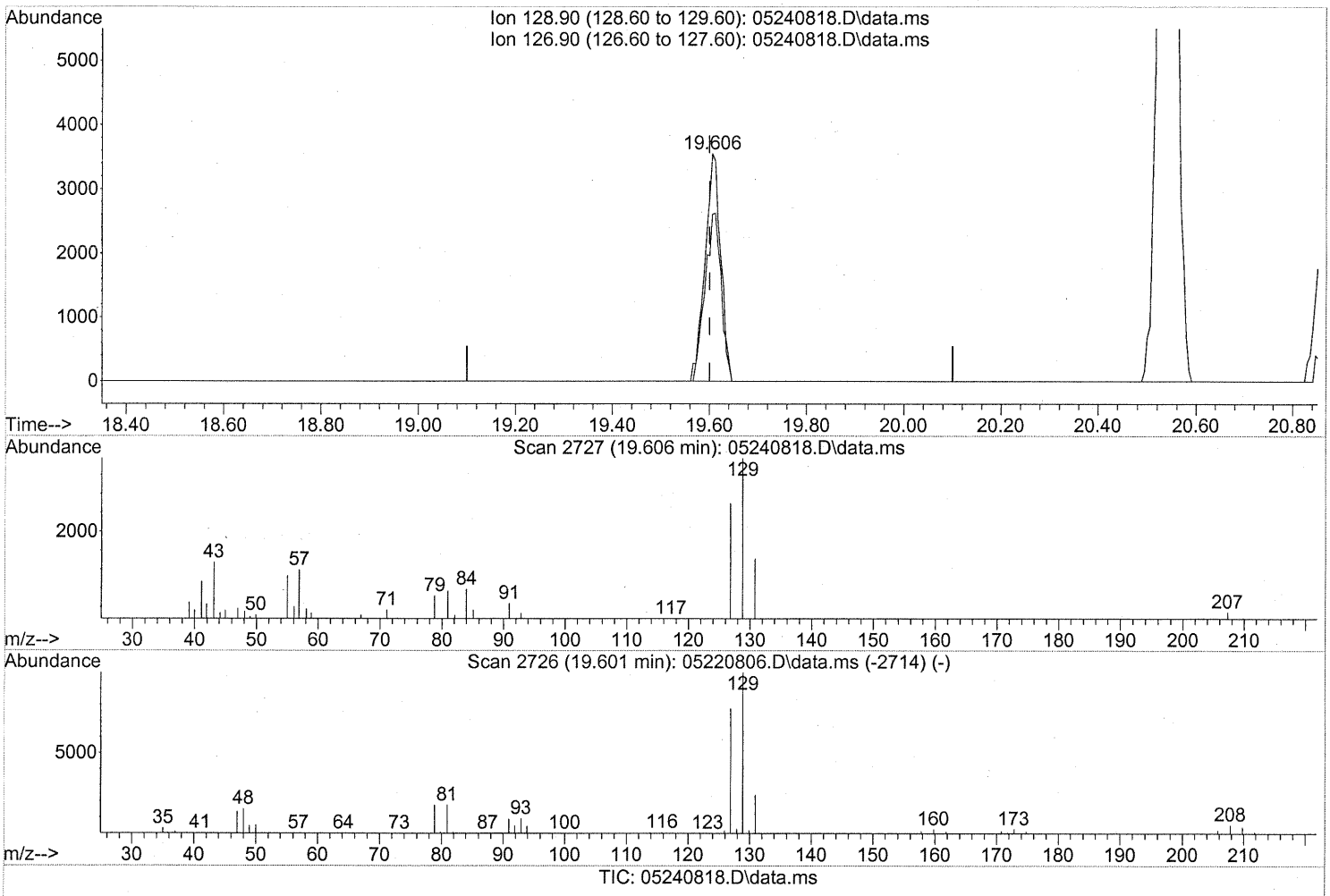
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	39.48#
0.00	0.00	0.00
0.00	0.00	0.00

590

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(60) Dibromochloromethane (T)

19.606min (+0.006) 0.21ng

response 7760

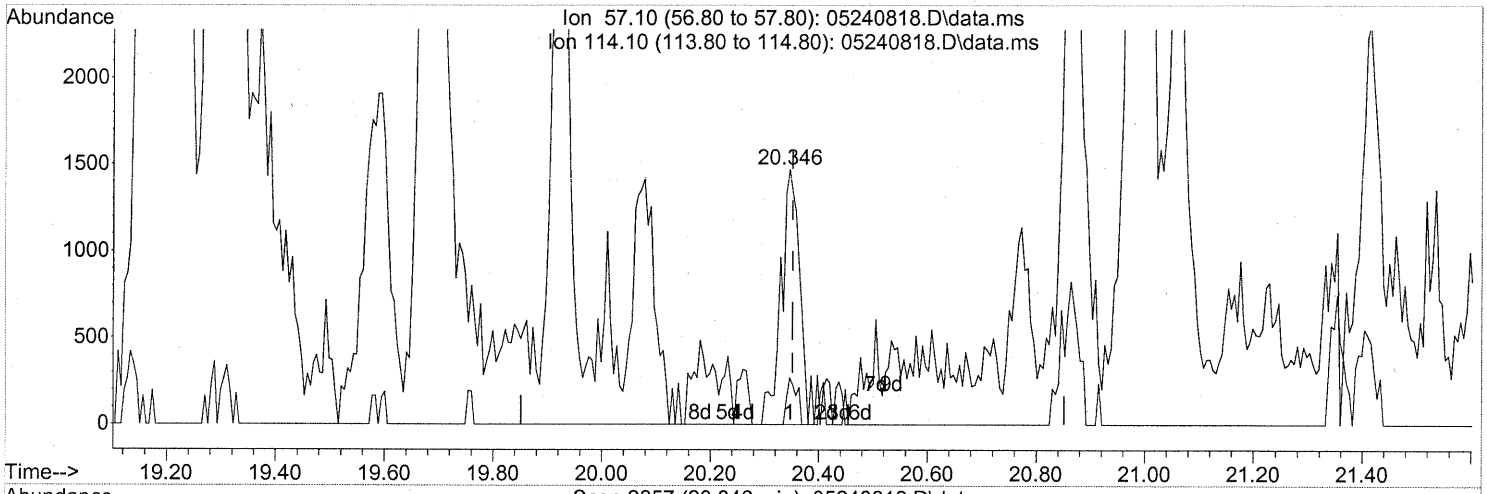
Ion	Exp%	Act%
128.90	100	100
126.90	76.90	79.79
0.00	0.00	0.00
0.00	0.00	0.00

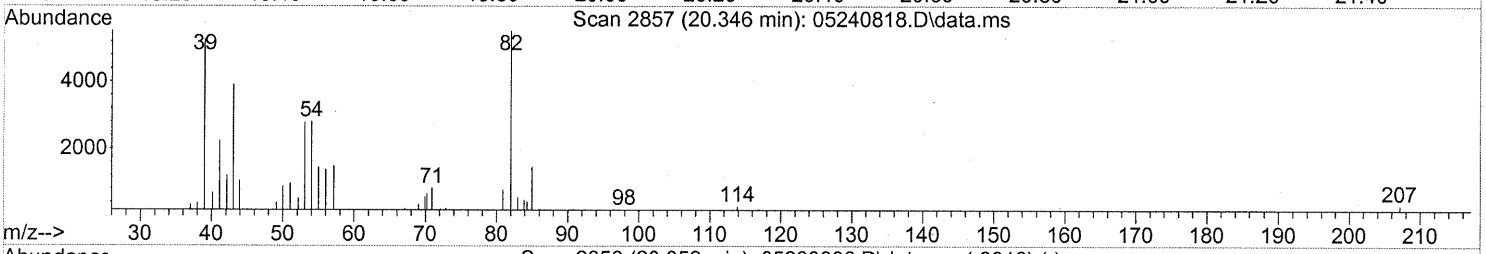
591

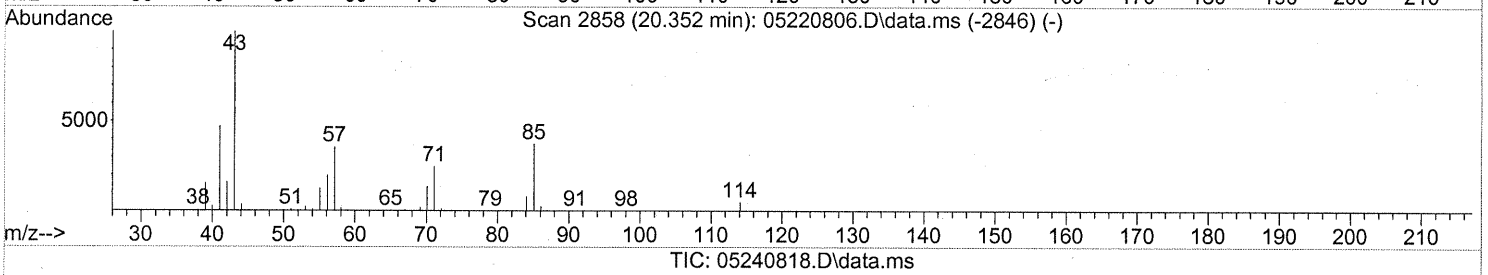
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(63) n-Octane (T)

20.346min (-0.006) 0.11ng

response 3423

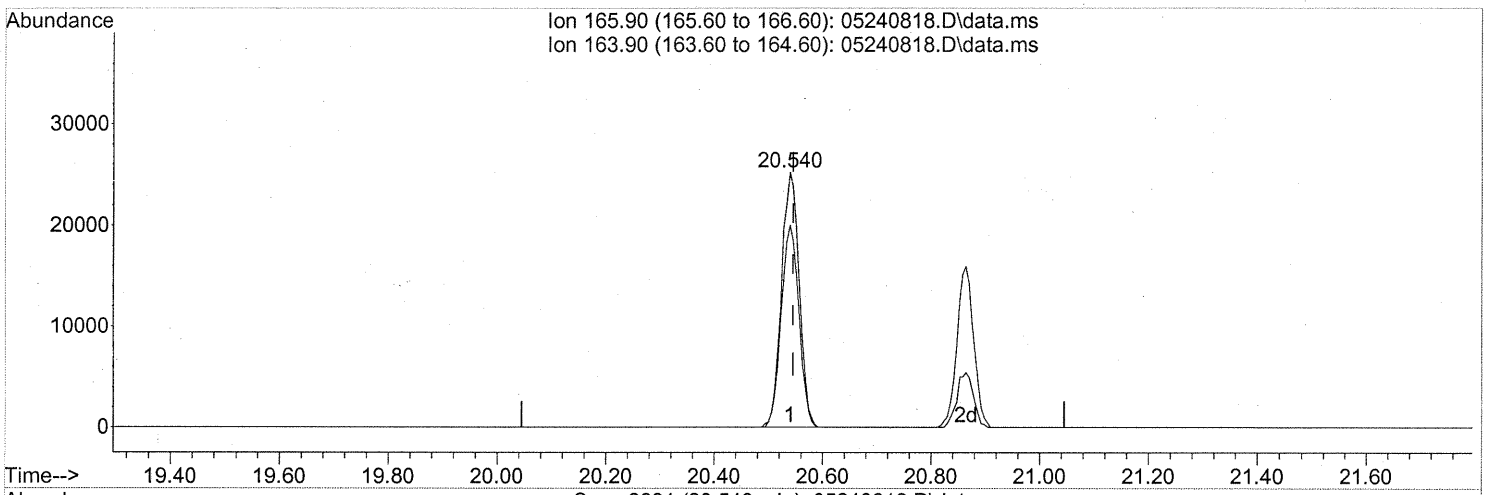
Ion	Exp%	Act%
57.10	100	100
114.10	10.20	10.20
0.00	0.00	0.00
0.00	0.00	0.00

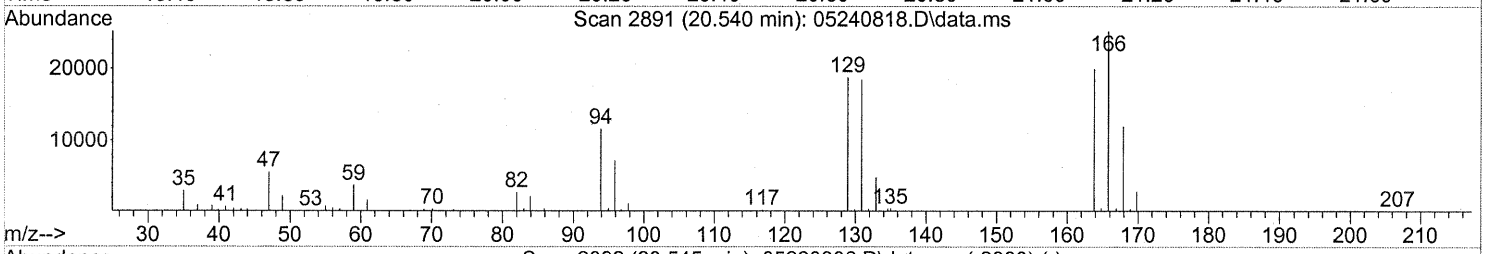
592

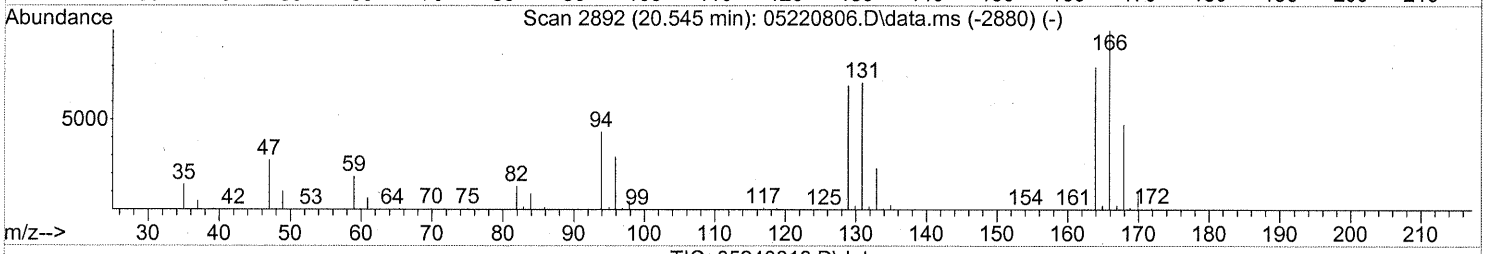
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.39ng

response 56585

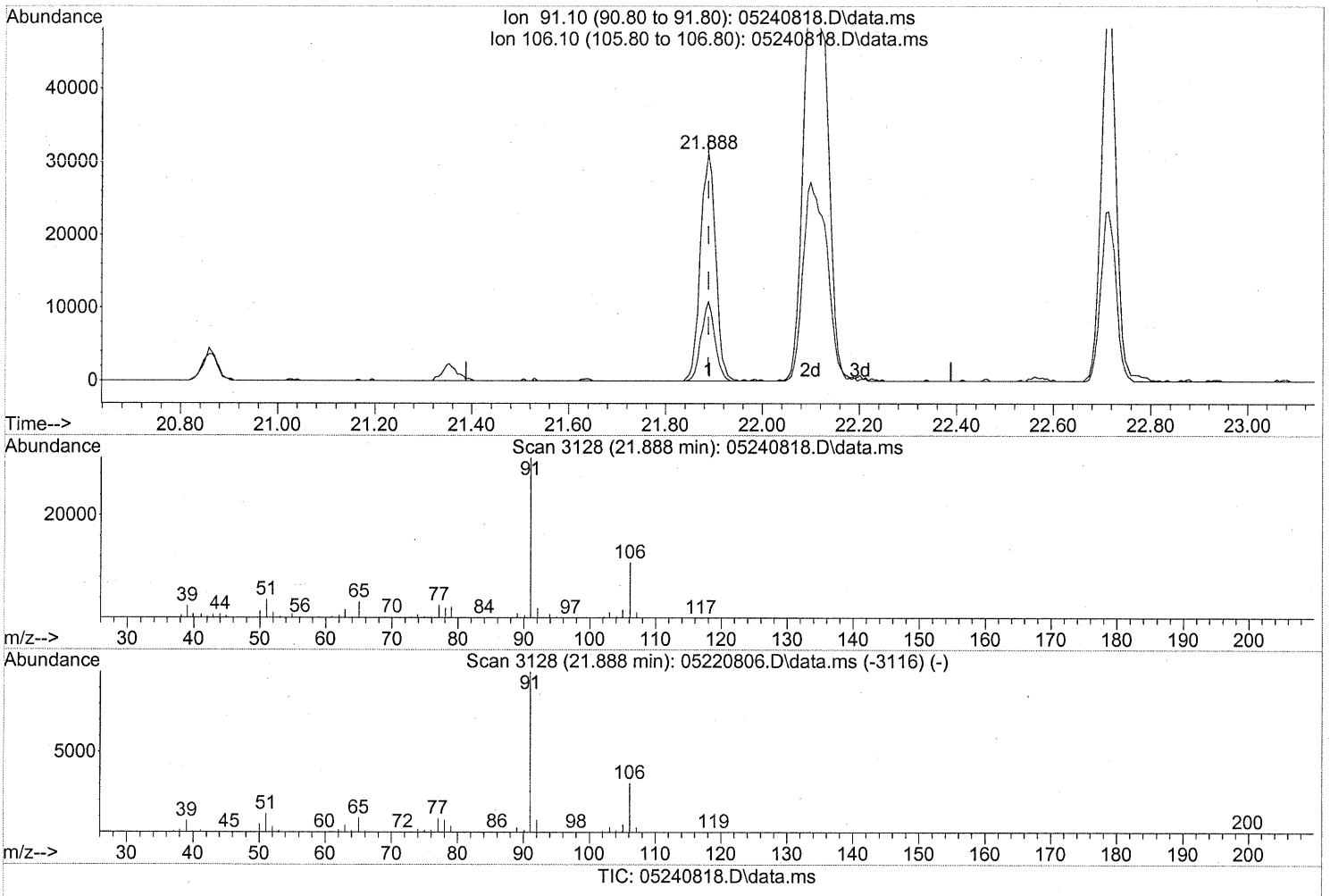
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.18
0.00	0.00	0.00
0.00	0.00	0.00

593

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.43ng

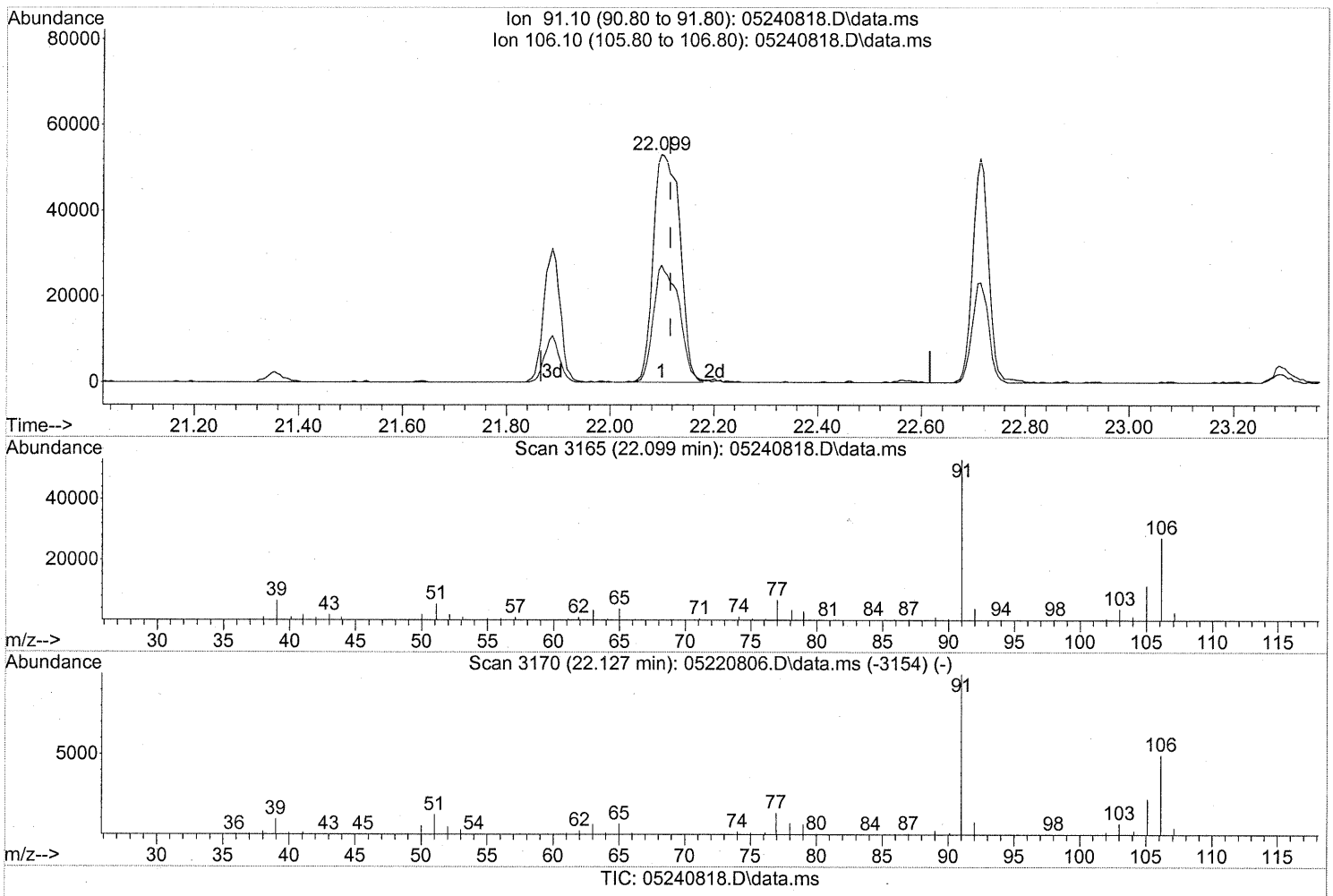
response 68161

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

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

22.099min (-0.017) 1.78ng

response 188202

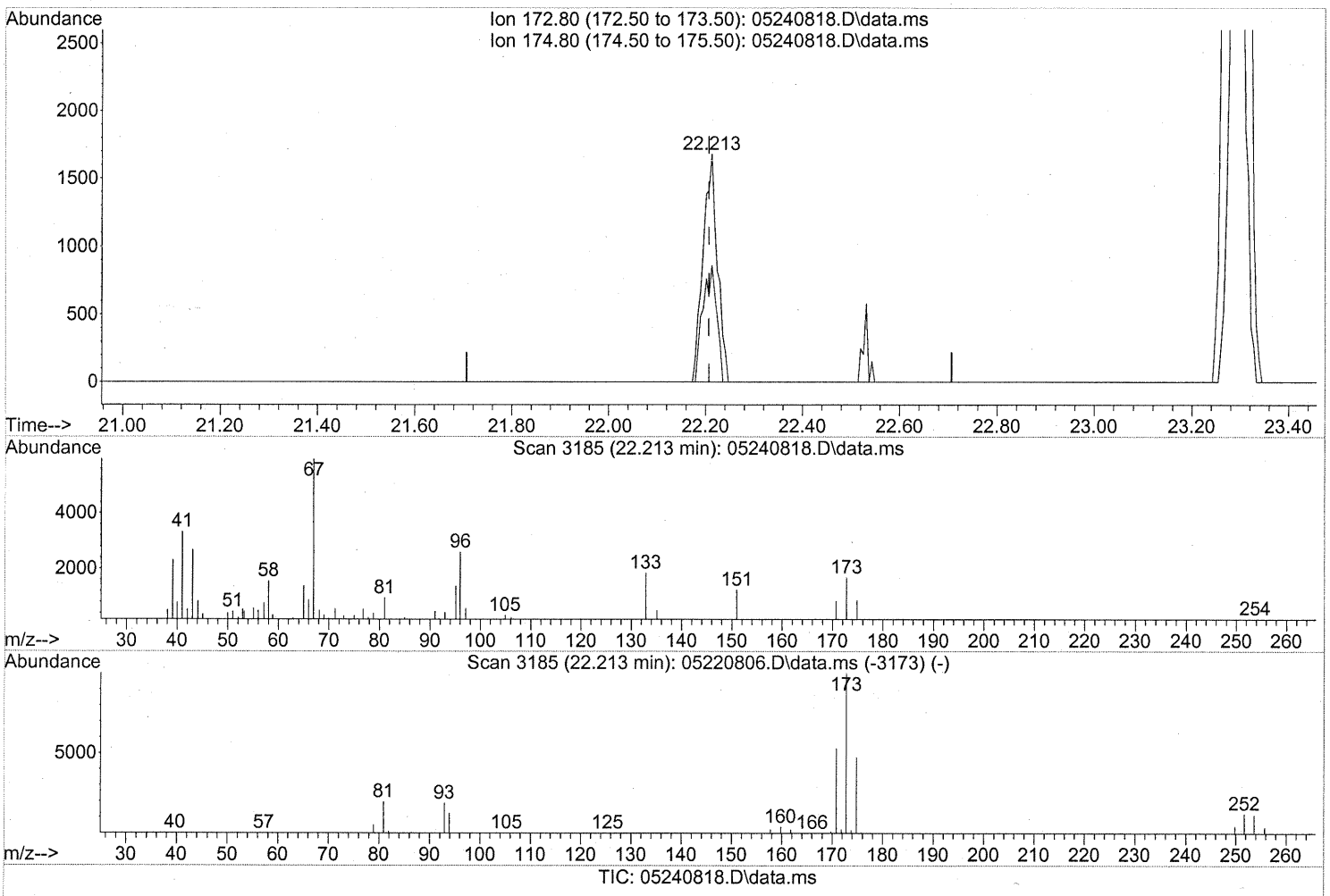
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.56
0.00	0.00	0.00
0.00	0.00	0.00

595

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(68) Bromoform (T)

22.213min (+0.006) 0.12ng

response 3455

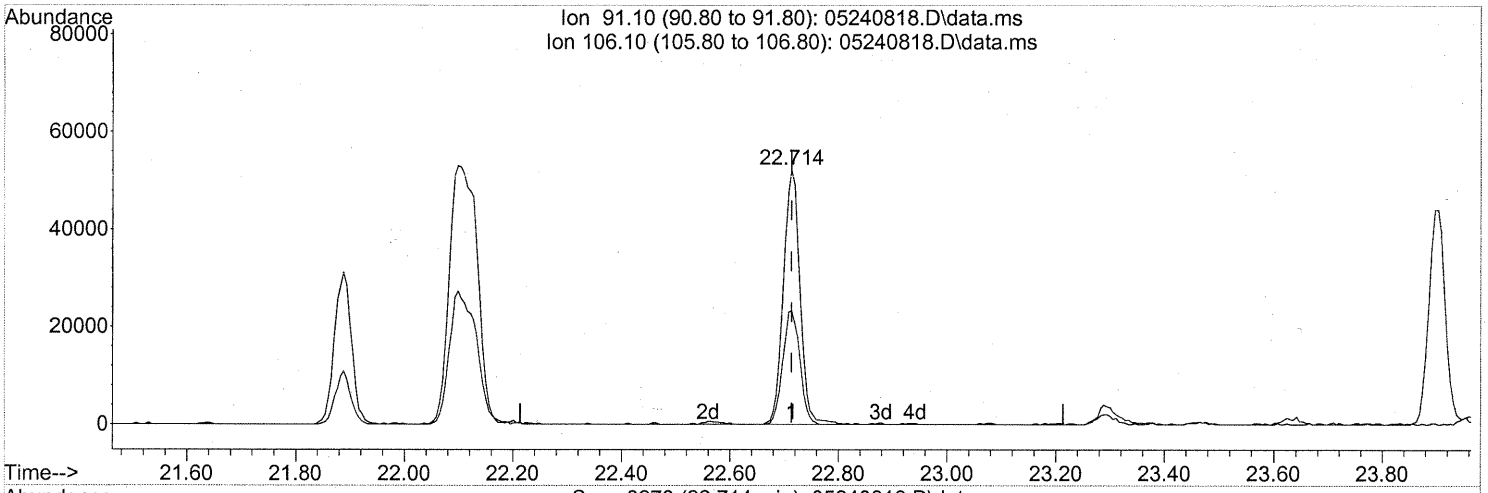
Ion	Exp%	Act%
172.80	100	100
174.80	49.40	48.97
0.00	0.00	0.00
0.00	0.00	0.00

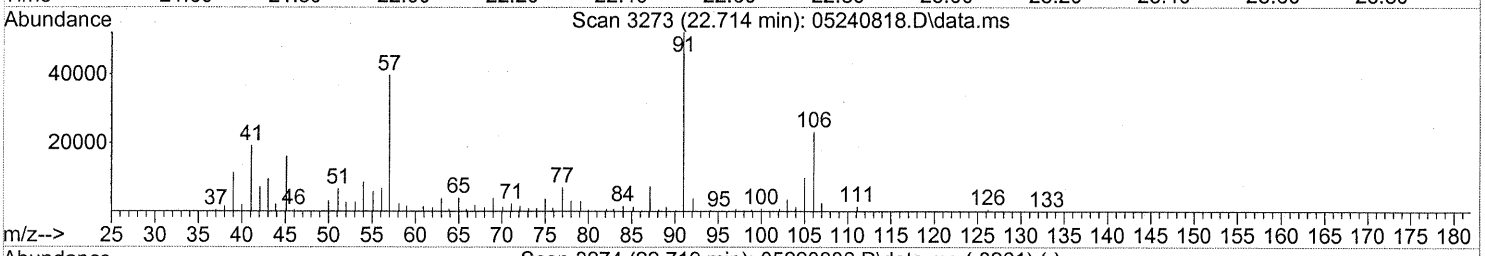
596

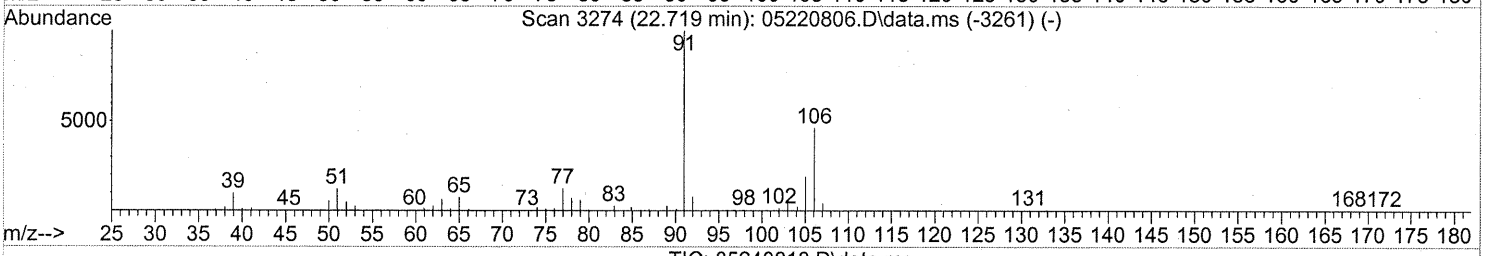
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.97ng

response 110779

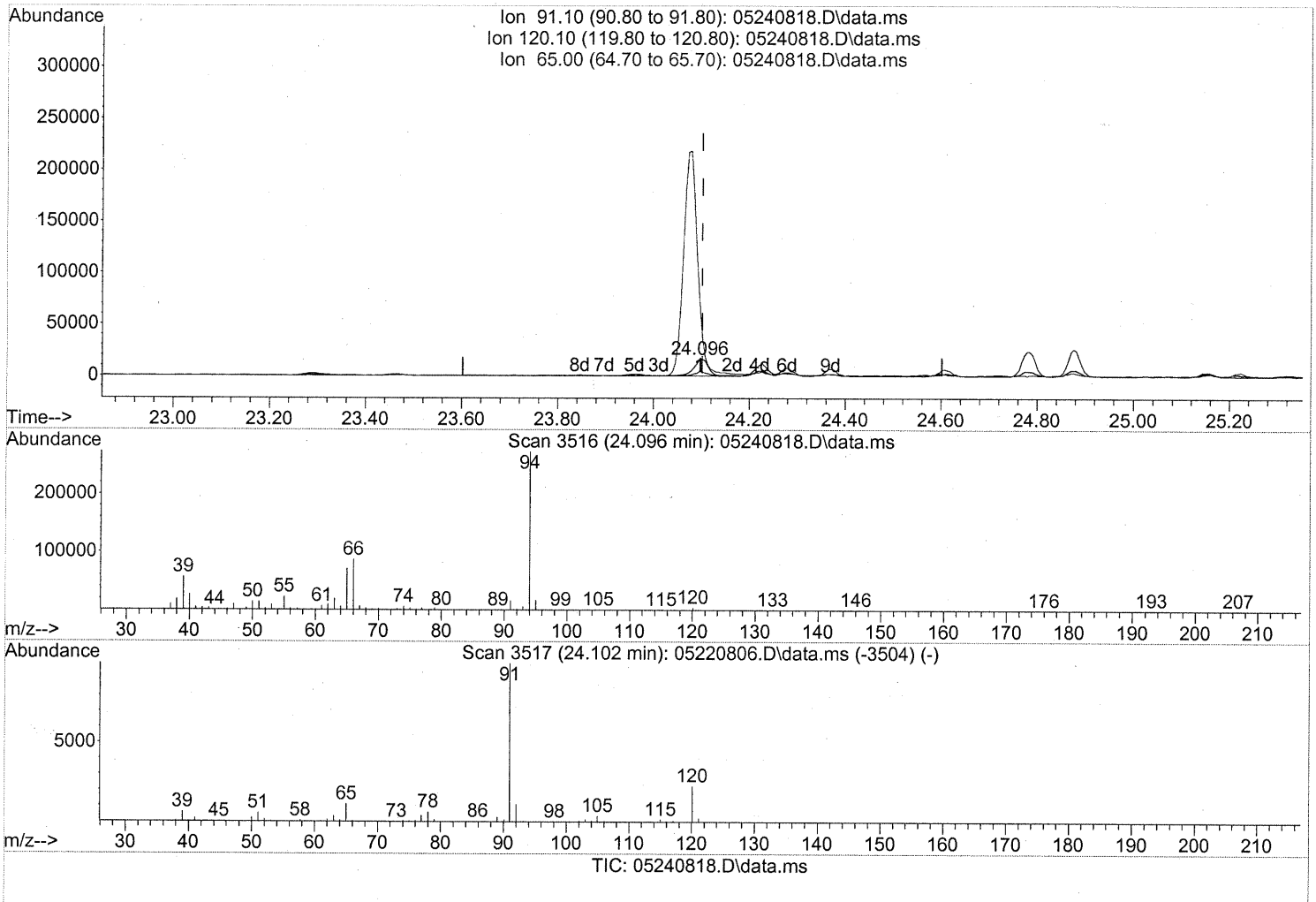
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.80
0.00	0.00	0.00
0.00	0.00	0.00

597

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(76) n-Propylbenzene (T)

24.096min (-0.006) 0.17ng

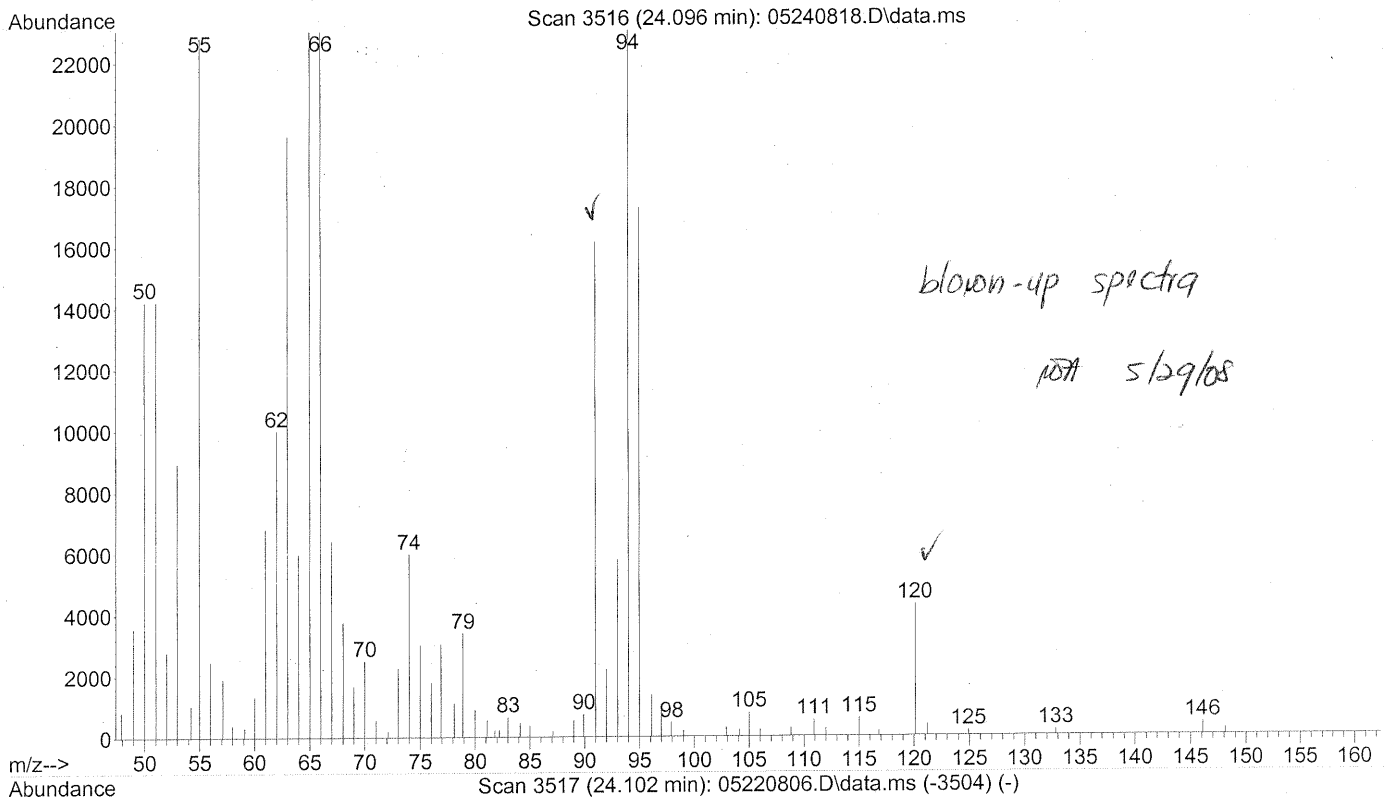
response 33020

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.11
65.00	11.40	1376.01#
0.00	0.00	0.00

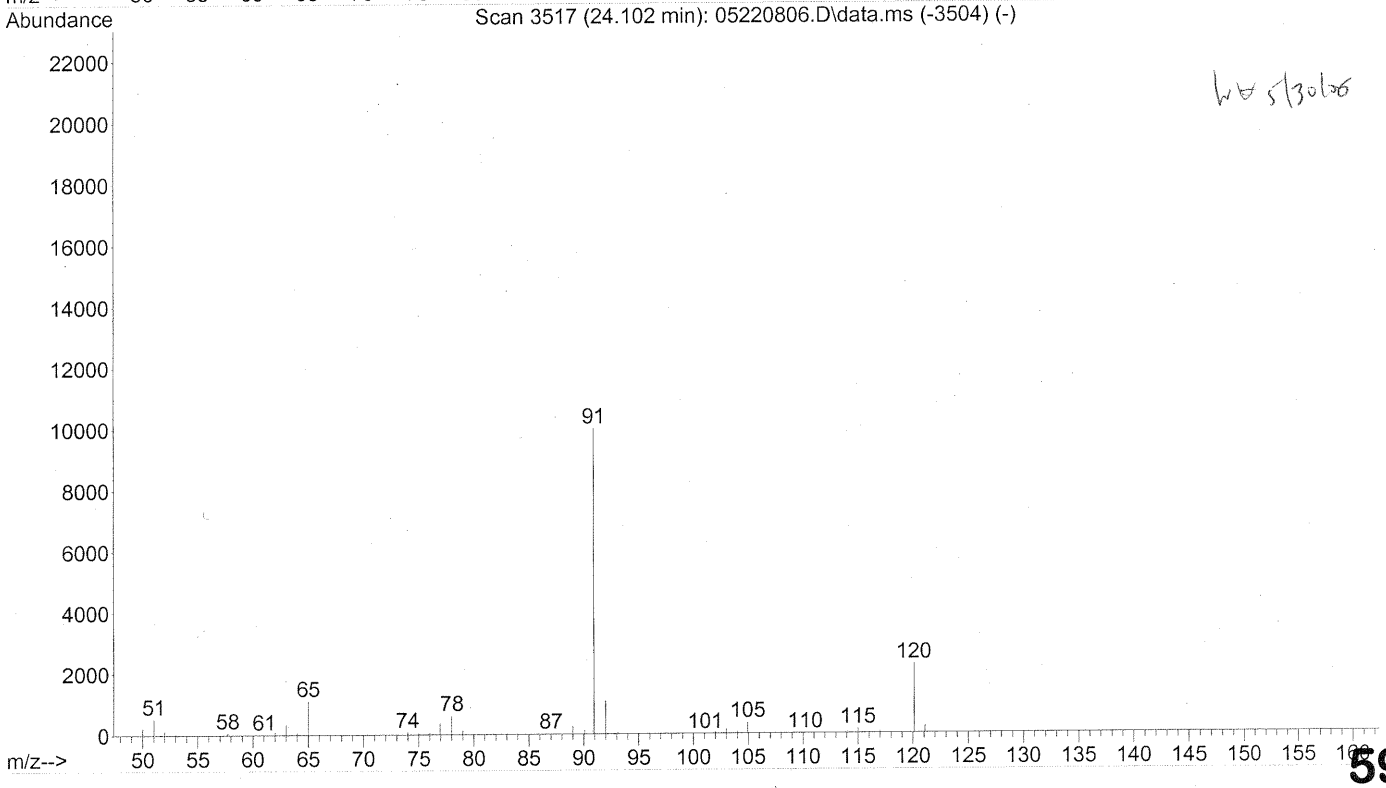
see blown-up spectra

598

File :J:\MS13\DATA\2008_05\24\05240818.D
Operator : WA
Acquired : 24 May 2008 18:50 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-011 (1000ml)
Misc Info : ENSR SG65B-05D (-2.2, 3.5)
Vial Number: 15



blown-up spectra
WA 5/29/08

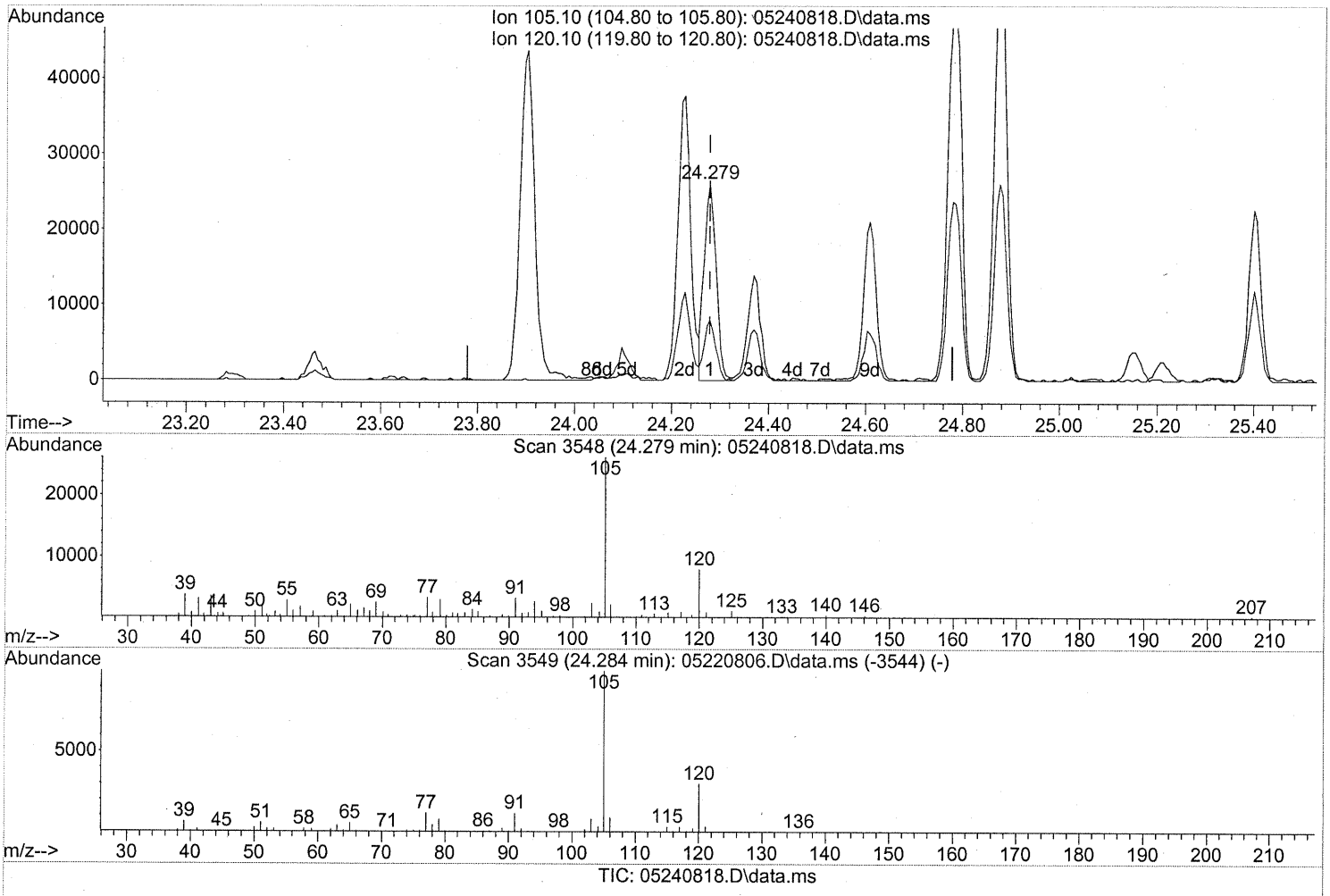


WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.30ng

response 44840

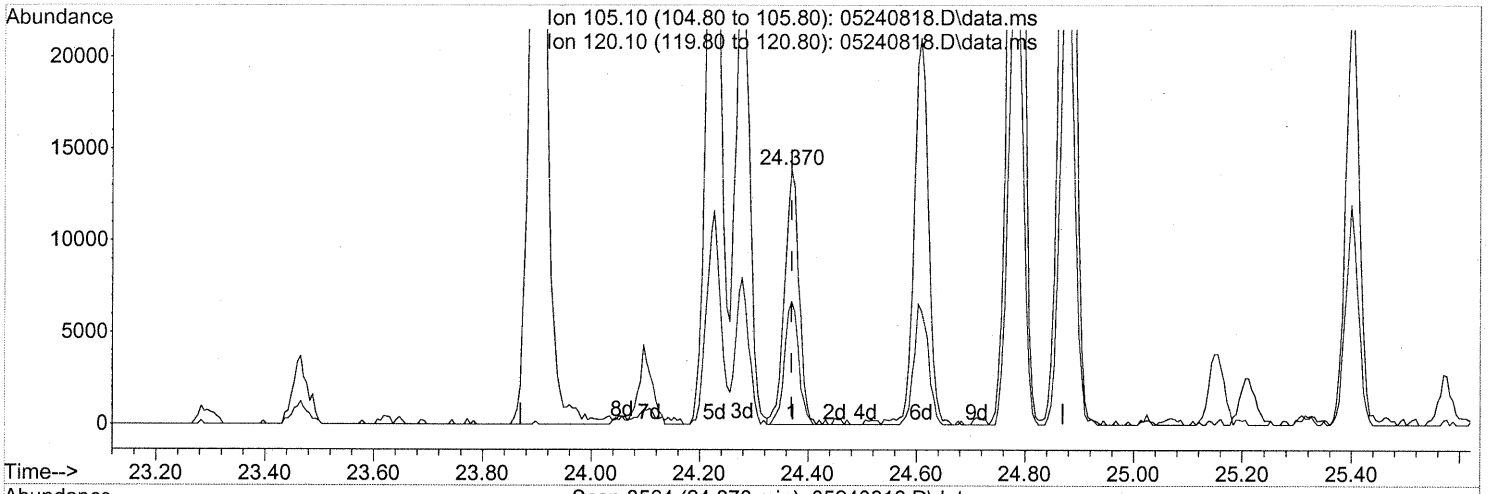
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.33
0.00	0.00	0.00
0.00	0.00	0.00

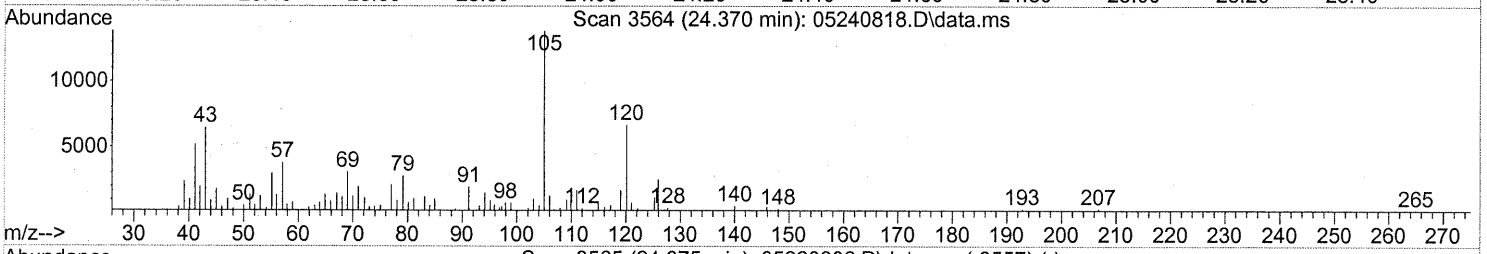
600

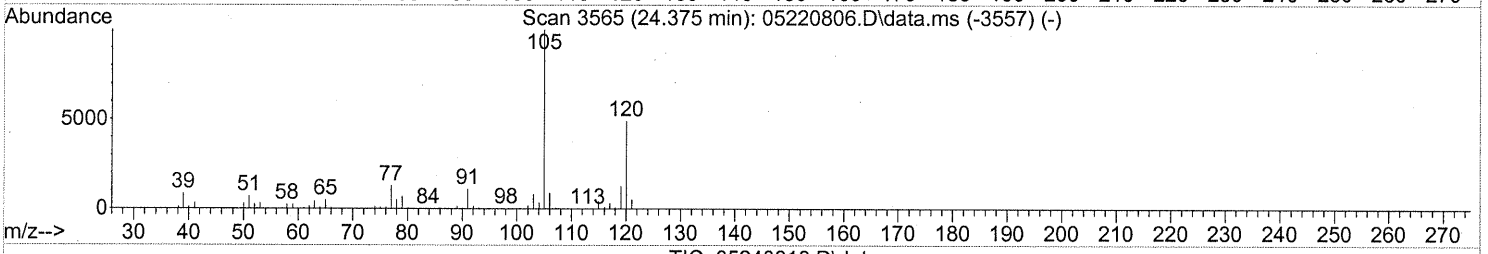
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

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

24.370min (-0.000) 0.19ng

response 25407

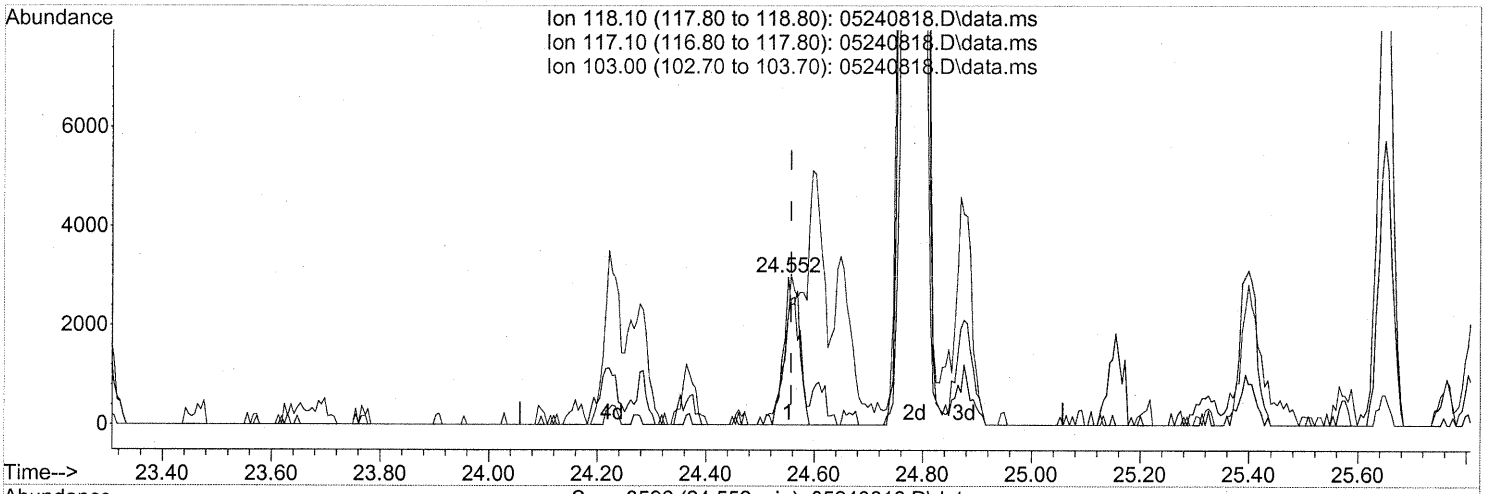
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.23
0.00	0.00	0.00
0.00	0.00	0.00

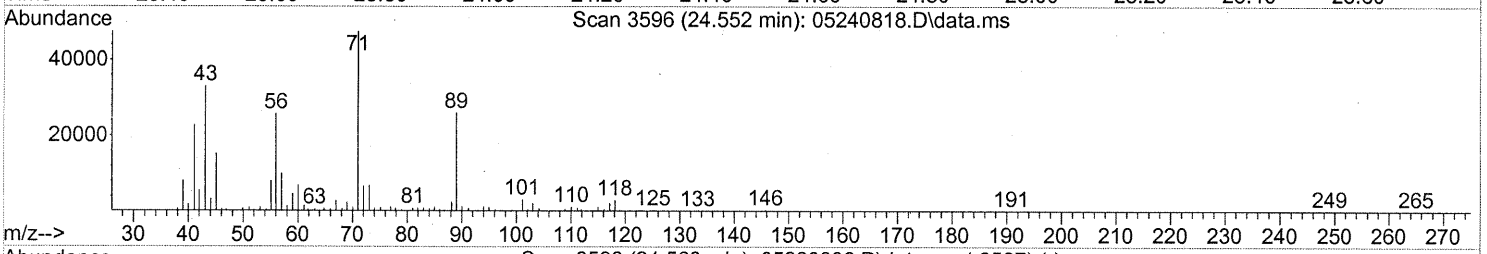
601

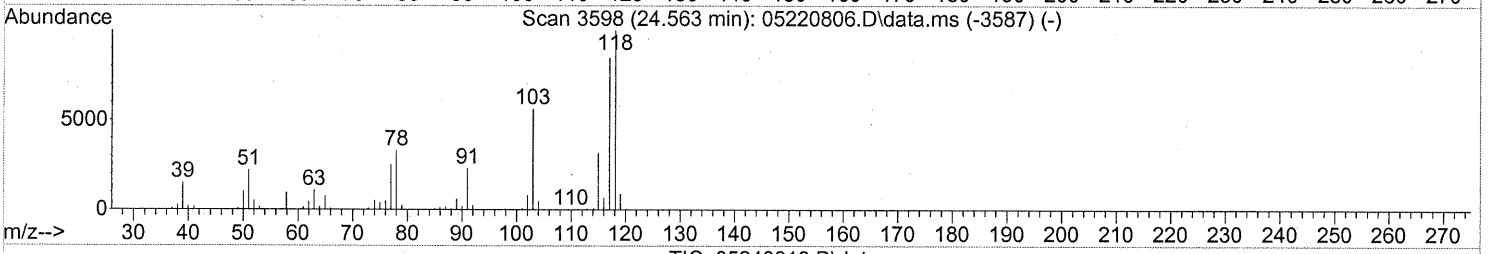
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(80) alpha-Methylstyrene (T)

24.552min (-0.006) 0.08ng

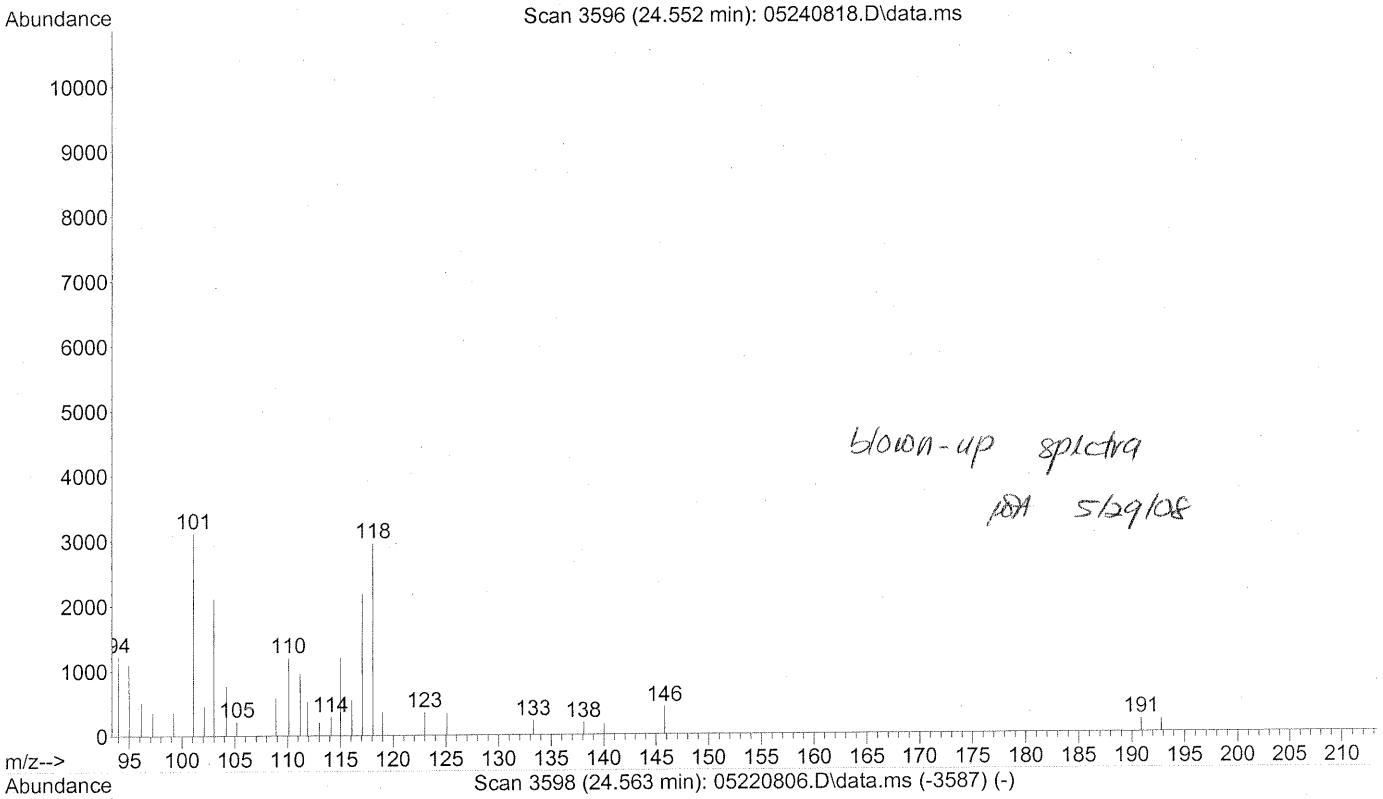
response 5784

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	95.99
103.00	55.30	131.73#
0.00	0.00	0.00

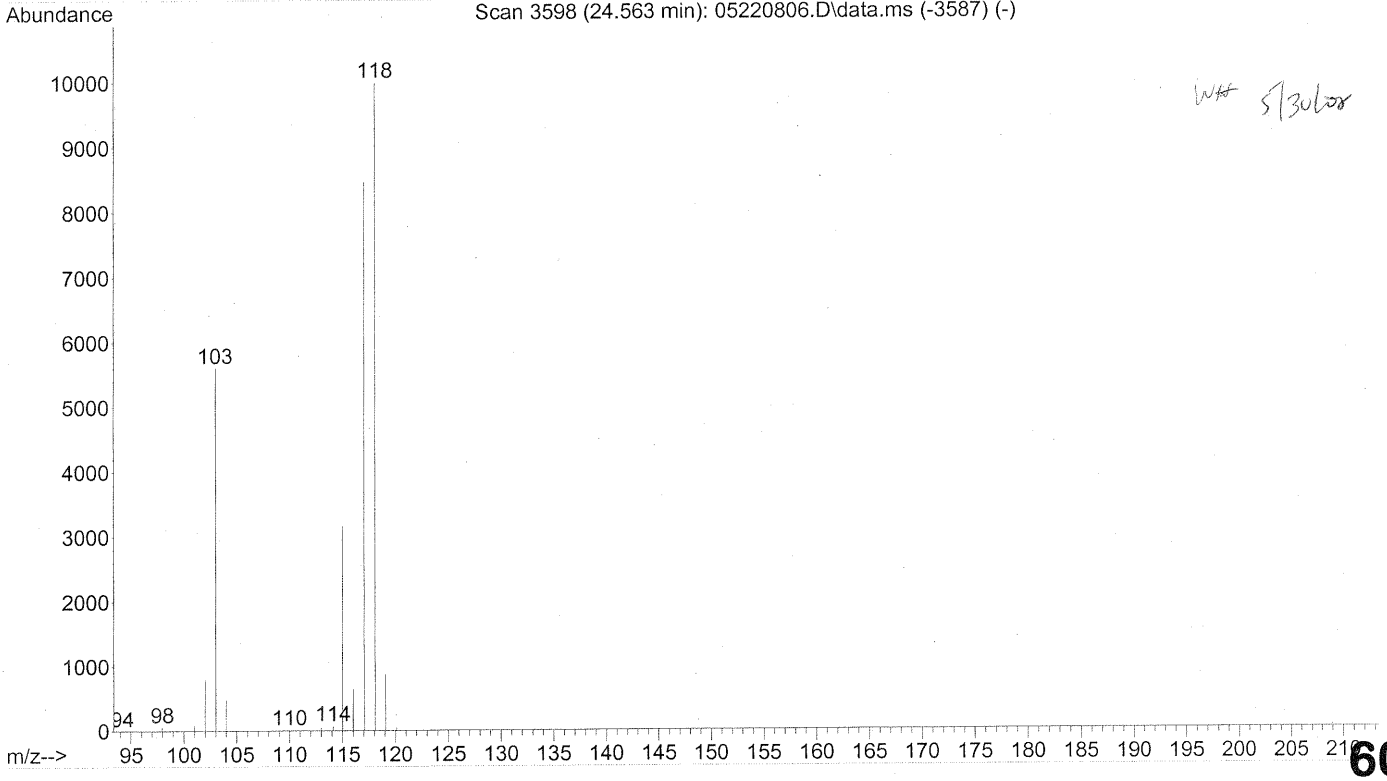
see blown-up spectra

602

File :J:\MS13\DATA\2008_05\24\05240818.D
Operator : WA
Acquired : 24 May 2008 18:50 using AcqMethod TO15.M
Instrument : GCMS13 WA 5/29/08
Sample Name: P0801422-011 (1000ml)
Misc Info : ENSR SG65B-05D (-2.2, 3.5)
Vial Number: 15



Blown-up spectra
WA 5/29/08

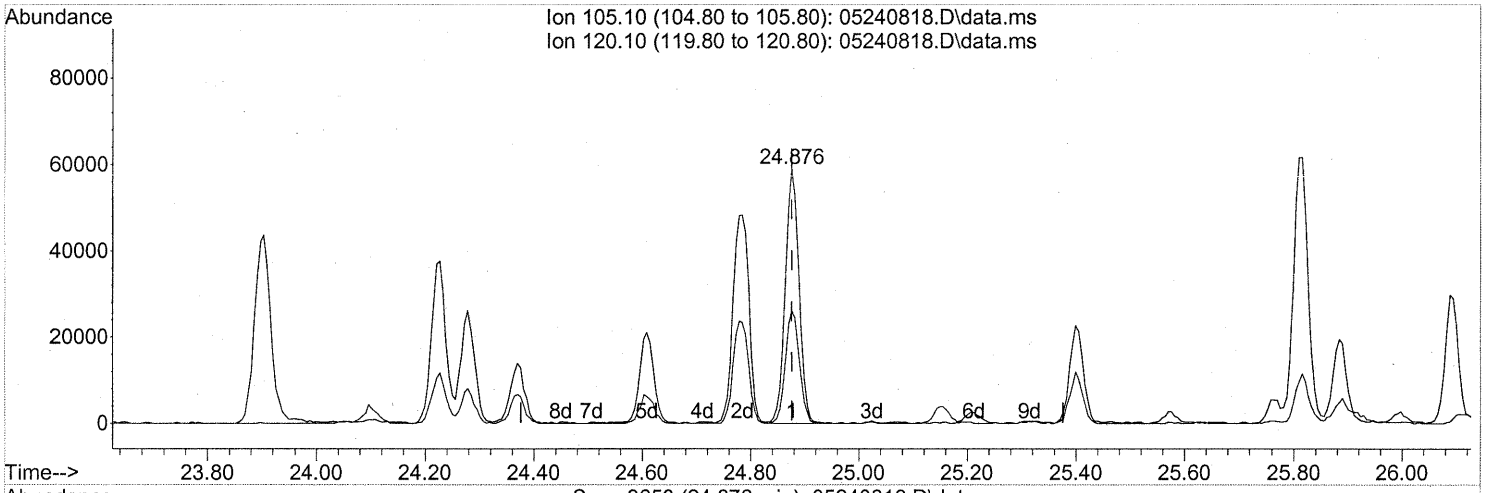


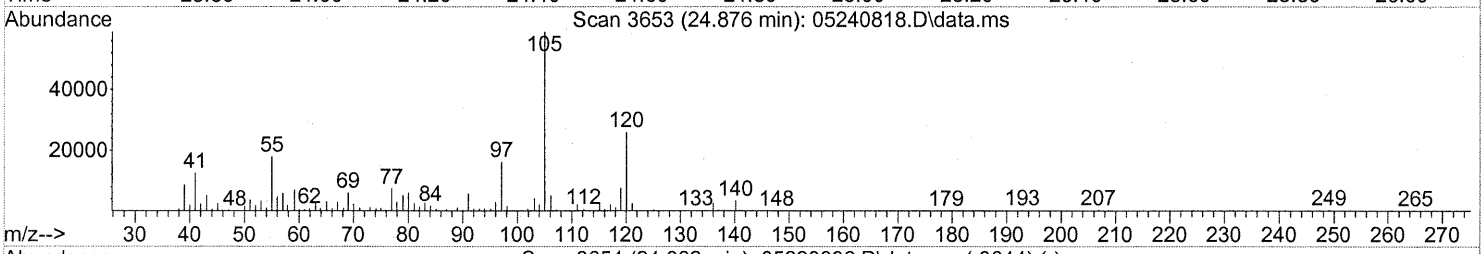
WA 5/30/08

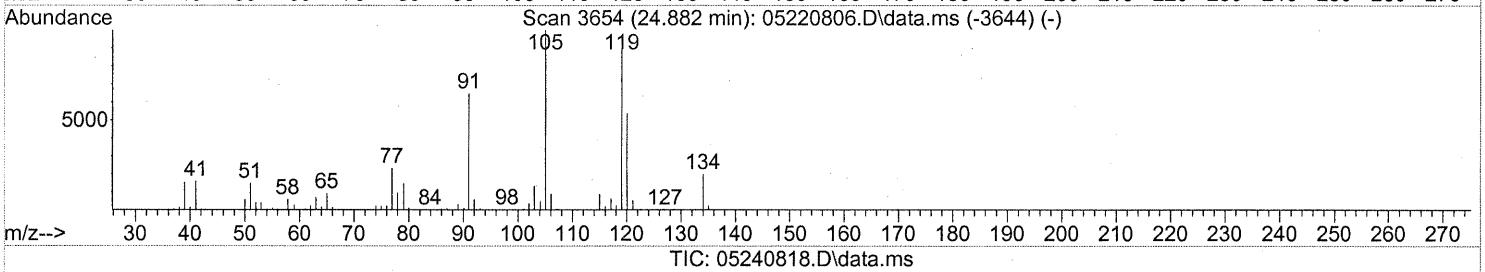
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

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

24.876min (-0.000) 0.75ng

response 104102

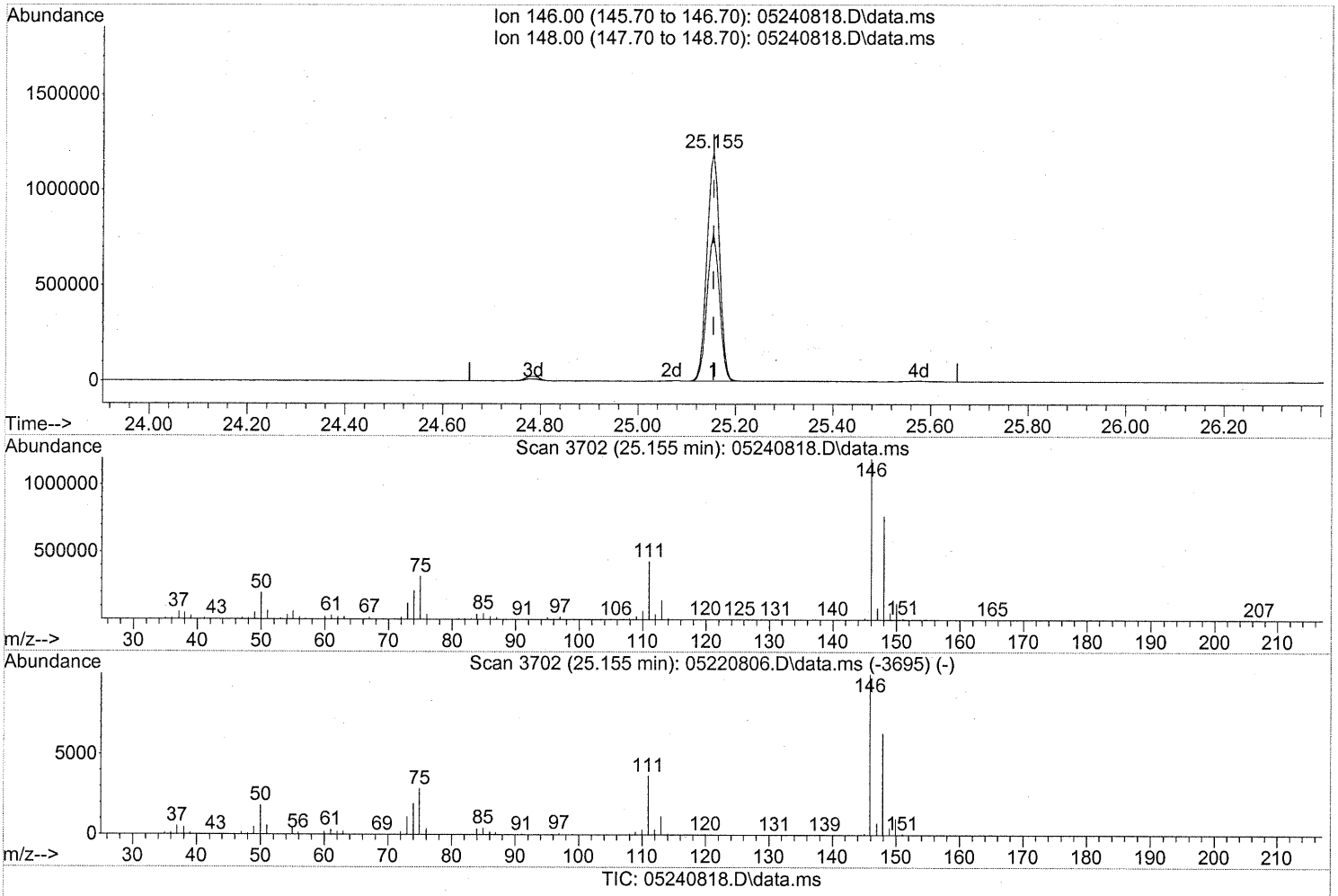
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.18
0.00	0.00	0.00
0.00	0.00	0.00

604

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 25.67ng

response 2156828

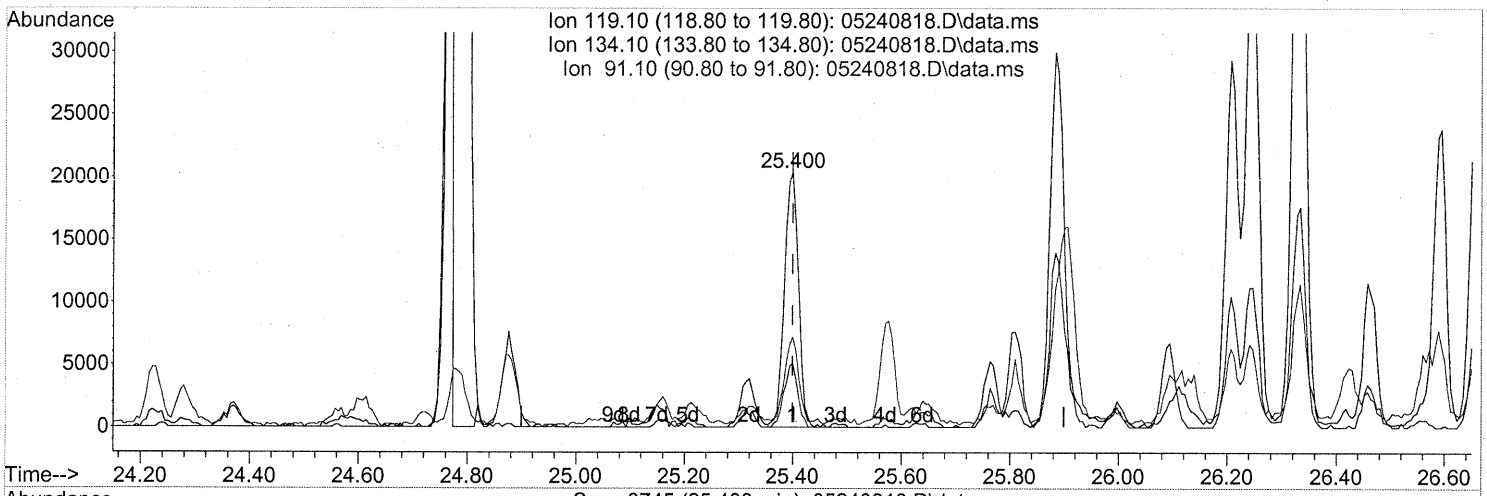
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.76
0.00	0.00	0.00
0.00	0.00	0.00

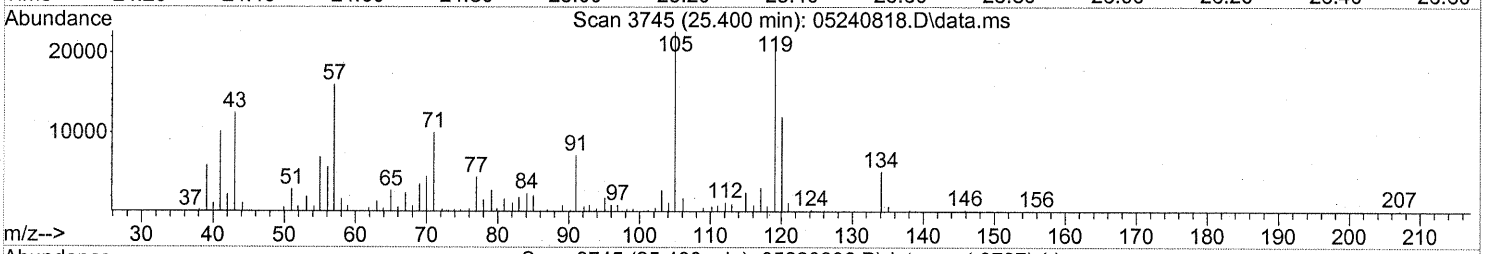
605

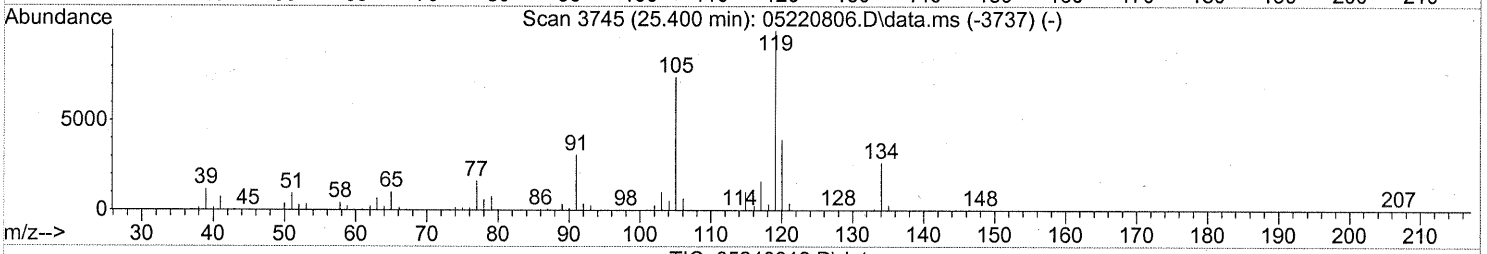
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.25ng

response 36240

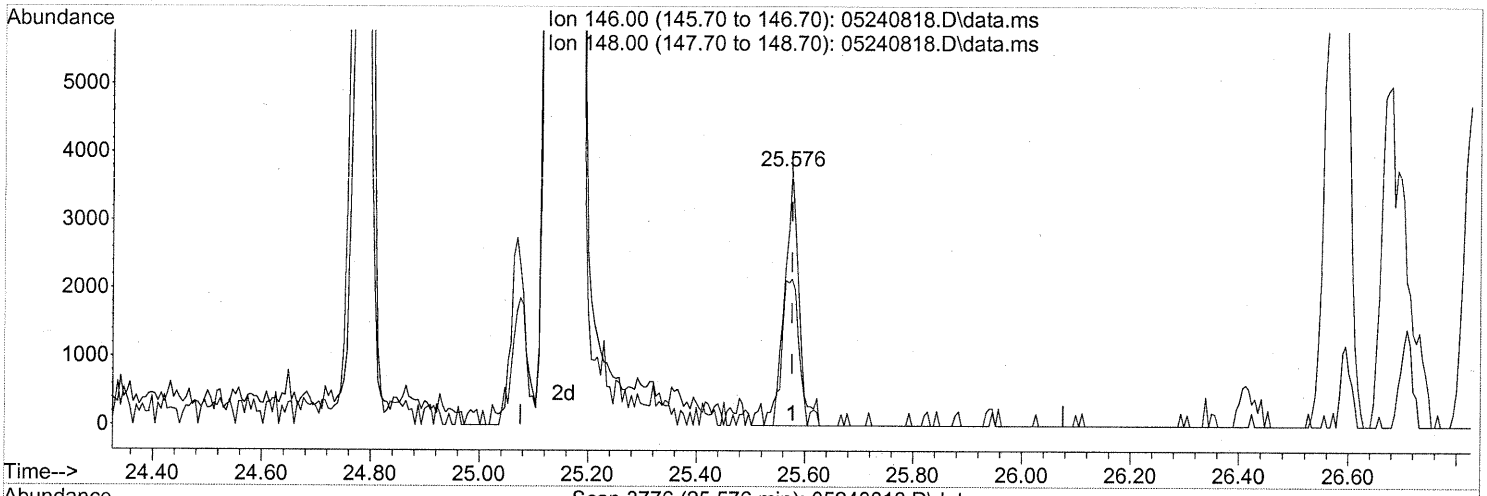
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	24.26
91.10	27.10	35.65
0.00	0.00	0.00

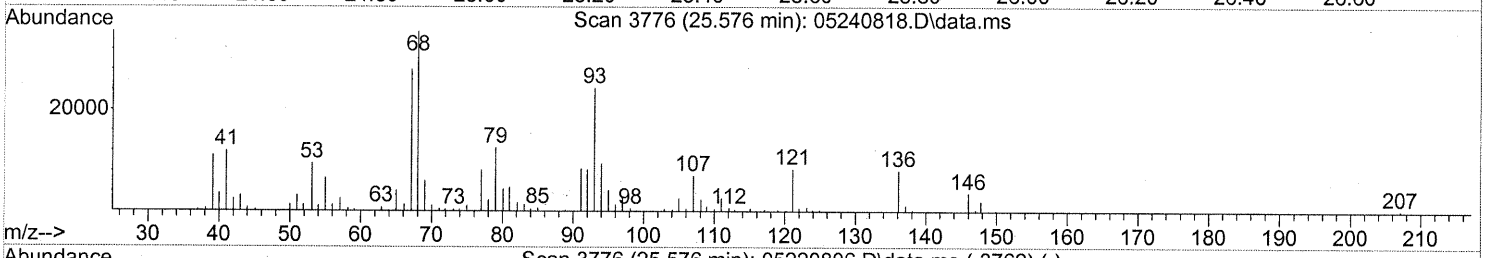
606

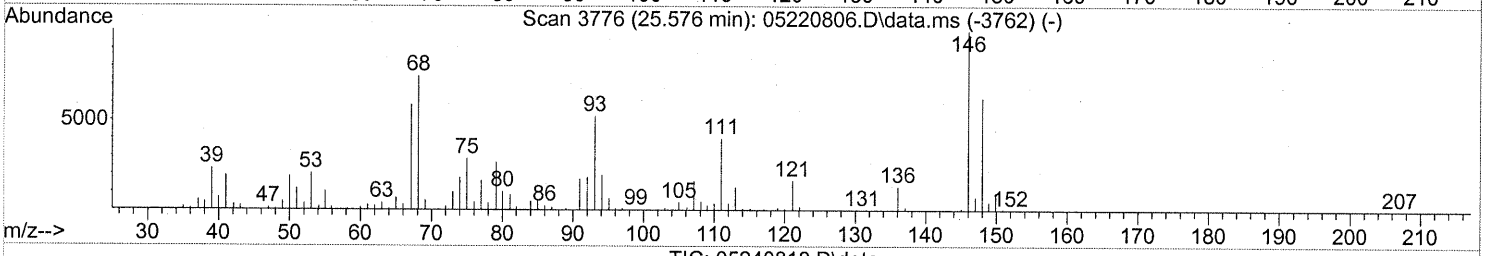
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.576min (-0.000) 0.08ng

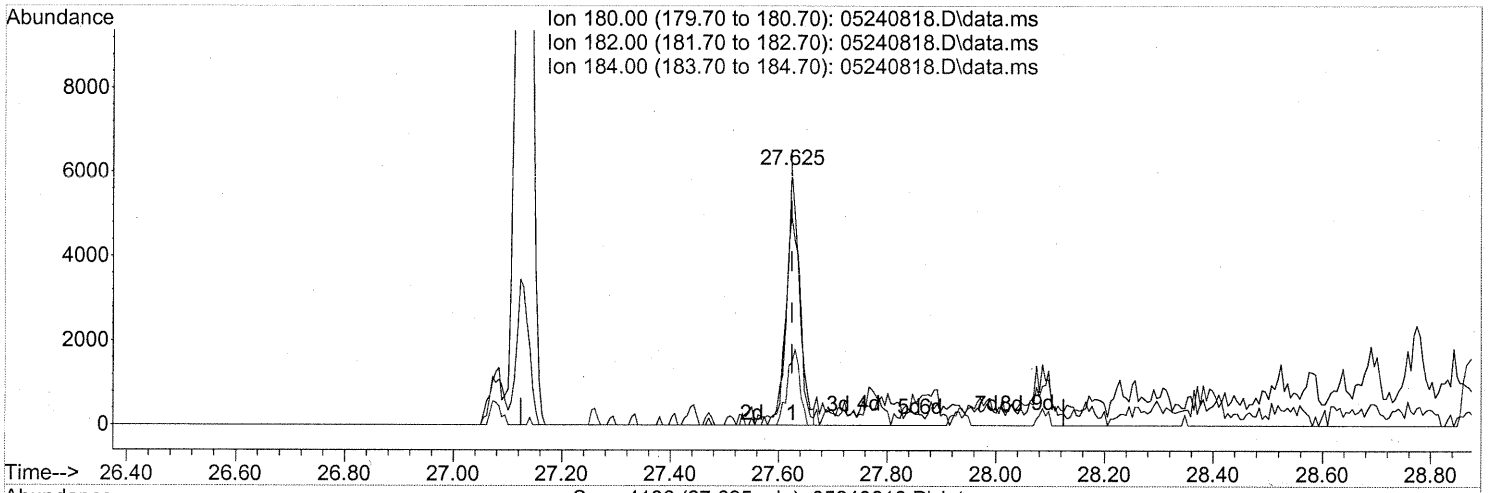
response 6976

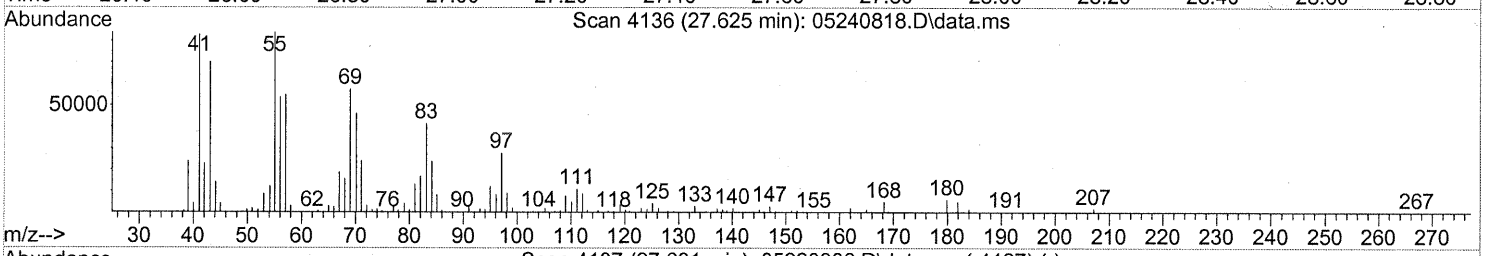
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	64.02
0.00	0.00	0.00
0.00	0.00	0.00

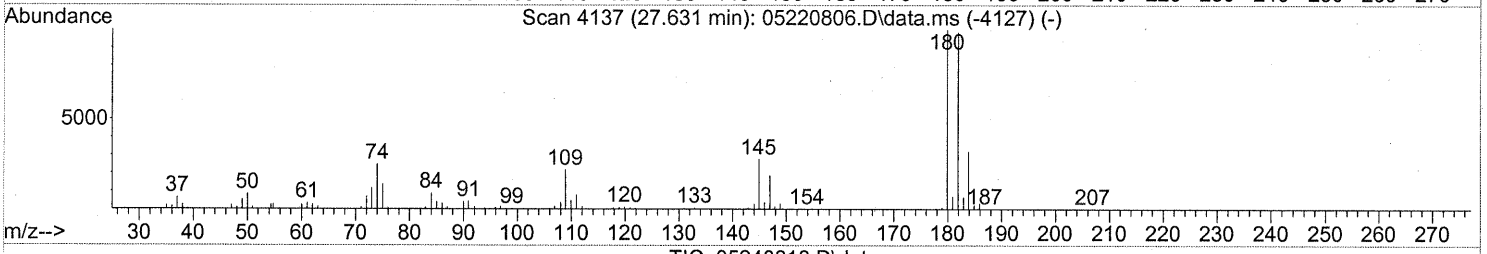
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240818.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.17ng

response 10035

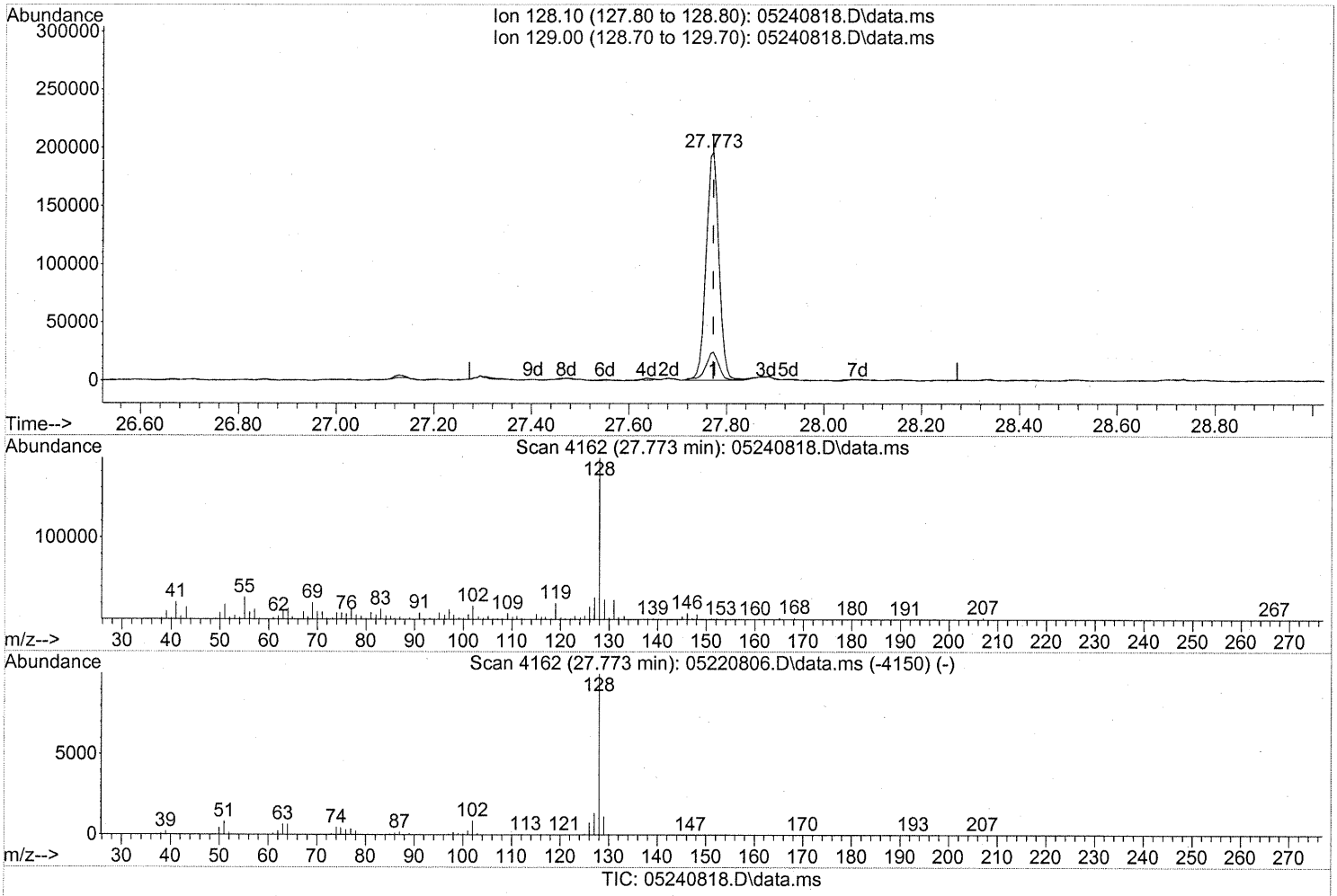
Ion	Exp%	Act%
180.00	100	100
182.00	95.20	92.75
184.00	30.30	28.58
0.00	0.00	0.00

608

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 18:08:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240818.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 1.94ng

response 354629

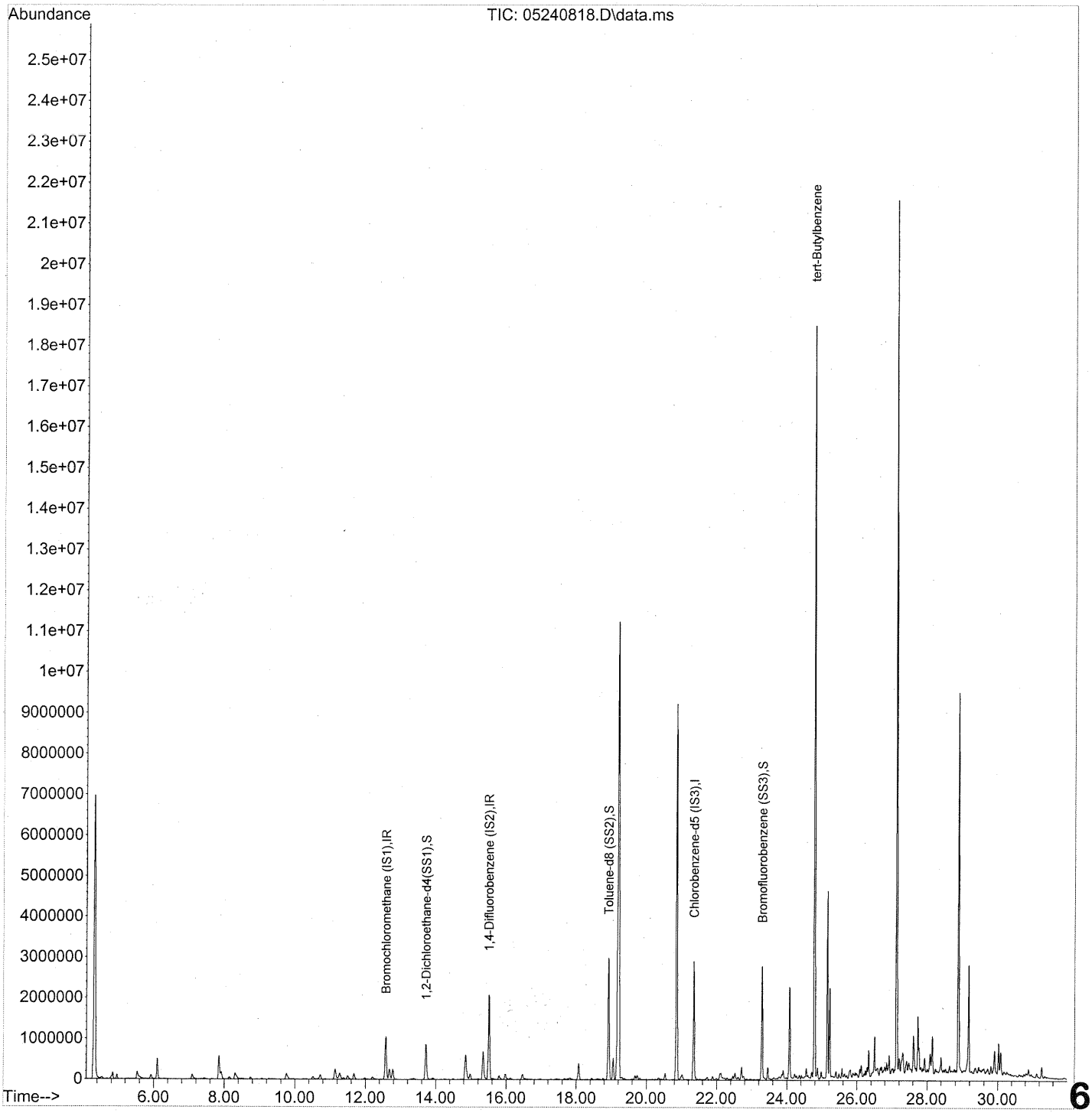
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.71
0.00	0.00	0.00
0.00	0.00	0.00

609

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:37:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



610

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240818.D
Acq On : 24 May 2008 18:50
Operator : WA
Sample : P0801442-011 (1000ml)
Misc : ENSR SG65B-05D (-2.2, 3.5)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:37:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	564336	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2463090	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1128628	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	899997	23.016	ng	-0.03
Spiked Amount 25.000			Recovery =	92.08%		
5) Toluene-d8 (SS2)	18.92	98	2530078	24.961	ng	-0.02
Spiked Amount 25.000			Recovery =	99.84%		
6) Bromofluorobenzene (SS3)	23.29	174	1043399	25.314	ng	0.00
Spiked Amount 25.000			Recovery =	101.24%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.79	119	384197	~~2.899~~ ng	NR	93
8) n-Butylbenzene	25.62	91	1333	N.D.		

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

611

JDH 5/29/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG84B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00886

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.20 Liter(s)
0.040 Liter(s)

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

Canister Dilution Factor: 1.53

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**	3.8	0.38	**0.42**	0.77	0.077	**J**
74-87-3	Chloromethane	ND	0.77	0.38	ND	0.37	0.19	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.8	0.38	ND	0.55	0.055	
75-01-4	Vinyl Chloride	ND	0.77	0.38	ND	0.30	0.15	
74-83-9	Bromomethane	ND	0.77	0.38	ND	0.20	0.099	
75-00-3	Chloroethane	ND	0.77	0.38	ND	0.29	0.15	
64-17-5	**Ethanol**	**14**	38	0.38	**7.6**	20	0.20	**J**
67-64-1	**Acetone**	**29**	38	0.56	**12**	16	0.24	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.5**	0.77	0.38	**0.27**	0.14	0.068	
107-13-1	Acrylonitrile	ND	3.8	0.54	ND	1.8	0.25	
75-35-4	1,1-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.8**	3.8	0.57	**0.60**	1.3	0.19	**J**
75-09-2	**Methylene Chloride**	**2.9**	3.8	0.38	**0.84**	1.1	0.11	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.77	0.38	ND	0.24	0.12	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.77	0.43	**0.067**	0.10	0.056	**J**
75-15-0	**Carbon Disulfide**	**1.9**	3.8	0.92	**0.61**	1.2	0.29	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
75-34-3	**1,1-Dichloroethane**	**0.40**	0.77	0.38	**0.098**	0.19	0.095	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	0.38	ND	0.21	0.11	
108-05-4	**Vinyl Acetate**	**3.8**	38	1.2	**1.1**	11	0.35	**J**
78-93-3	**2-Butanone (MEK)**	**62**	3.8	0.38	**21**	1.3	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.77	0.38	ND	0.19	0.097	
108-20-3	Diisopropyl Ether	ND	3.8	0.45	ND	0.92	0.11	
67-66-3	**Chloroform**	**4,400**	0.77	0.45	**900**	0.16	0.092	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG84B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00886

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.20 Liter(s)
0.040 Liter(s)

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

Canister Dilution Factor: 1.53

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	3.8	0.39	ND	0.92	0.093	
107-06-2	1,2-Dichloroethane	ND	0.77	0.38	ND	0.19	0.095	
71-55-6	**1,1,1-Trichloroethane**	**0.58**	0.77	0.38	**0.11**	0.14	0.070	**J**
71-43-2	**Benzene**	**5.4**	0.77	0.38	**1.7**	0.24	0.12	
56-23-5	**Carbon Tetrachloride**	**8.7**	0.77	0.38	**1.4**	0.12	0.061	
994-05-8	tert-Amyl Methyl Ether	ND	3.8	0.38	ND	0.92	0.092	
78-87-5	1,2-Dichloropropane	ND	0.77	0.38	ND	0.17	0.083	
75-27-4	**Bromodichloromethane**	**3.8**	0.77	0.38	**0.57**	0.11	0.057	
79-01-6	**Trichloroethene**	**2.7**	0.77	0.38	**0.51**	0.14	0.071	
123-91-1	1,4-Dioxane	ND	3.8	0.47	ND	1.1	0.13	
80-62-6	Methyl Methacrylate	ND	3.8	0.57	ND	0.93	0.14	
142-82-5	**n-Heptane**	**0.78**	3.8	0.49	**0.19**	0.93	0.12	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	3.8	0.40	ND	0.84	0.088	
108-10-1	**4-Methyl-2-pentanone**	**1.2**	3.8	0.43	**0.29**	0.93	0.10	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	3.8	0.48	ND	0.84	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.77	0.38	ND	0.14	0.070	
108-88-3	**Toluene**	**16**	3.8	0.38	**4.2**	1.0	0.10	
591-78-6	**2-Hexanone**	**0.89**	3.8	0.58	**0.22**	0.93	0.14	**J**
124-48-1	Dibromochloromethane	ND	0.77	0.52	ND	0.090	0.061	
106-93-4	1,2-Dibromoethane	ND	0.77	0.41	ND	0.10	0.054	
111-65-9	**n-Octane**	**0.73**	3.8	0.38	**0.16**	0.82	0.082	**J**
127-18-4	**Tetrachloroethene**	**26**	0.77	0.38	**3.8**	0.11	0.056	
108-90-7	Chlorobenzene	ND	0.77	0.39	ND	0.17	0.085	

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: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG84B-05** CAS Sample ID: P0801442-012
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.20 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.040 Liter(s)
Test Notes:
Container ID: SC00886

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

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**1.9**	3.8	0.47	**0.44**	0.88	0.11	**J**
179601-23-1	**m,p-Xylenes**	**5.1**	3.8	0.99	**1.2**	0.88	0.23	
75-25-2	Bromoform	ND	3.8	0.58	ND	0.37	0.056	
100-42-5	**Styrene**	**1.7**	3.8	0.58	**0.41**	0.90	0.14	**J**
95-47-6	**o-Xylene**	**2.1**	3.8	0.48	**0.49**	0.88	0.11	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.77	0.49	ND	0.11	0.071	
98-82-8	Cumene	ND	3.8	0.43	ND	0.78	0.087	
103-65-1	**n-Propylbenzene**	**0.44**	3.8	0.40	**0.090**	0.78	0.081	**J**
622-96-8	**4-Ethyltoluene**	**0.63**	3.8	0.44	**0.13**	0.78	0.089	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	3.8	0.46	**0.13**	0.78	0.093	**J**
98-83-9	alpha-Methylstyrene	ND	3.8	0.56	ND	0.79	0.12	
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	3.8	0.53	**0.45**	0.78	0.11	**J**
100-44-7	Benzyl Chloride	ND	0.77	0.66	ND	0.15	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.47	ND	0.13	0.079	
106-46-7	**1,4-Dichlorobenzene**	**15**	0.77	0.43	**2.4**	0.13	0.071	
135-98-8	sec-Butylbenzene	ND	3.8	0.44	ND	0.70	0.081	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	3.8	0.50	ND	0.70	0.091	
95-50-1	1,2-Dichlorobenzene	ND	0.77	0.50	ND	0.13	0.084	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.8	0.58	ND	0.40	0.060	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	0.58	ND	0.10	0.078	
91-20-3	**Naphthalene**	**1.6**	1.5	0.57	**0.30**	0.29	0.11	
87-68-3	Hexachlorobutadiene	ND	0.77	0.69	ND	0.072	0.065	
98-06-6	tert-Butylbenzene	ND	1.5	0.38	ND	0.28	0.070	
104-51-8	n-Butylbenzene	ND	1.5	0.38	ND	0.28	0.070	

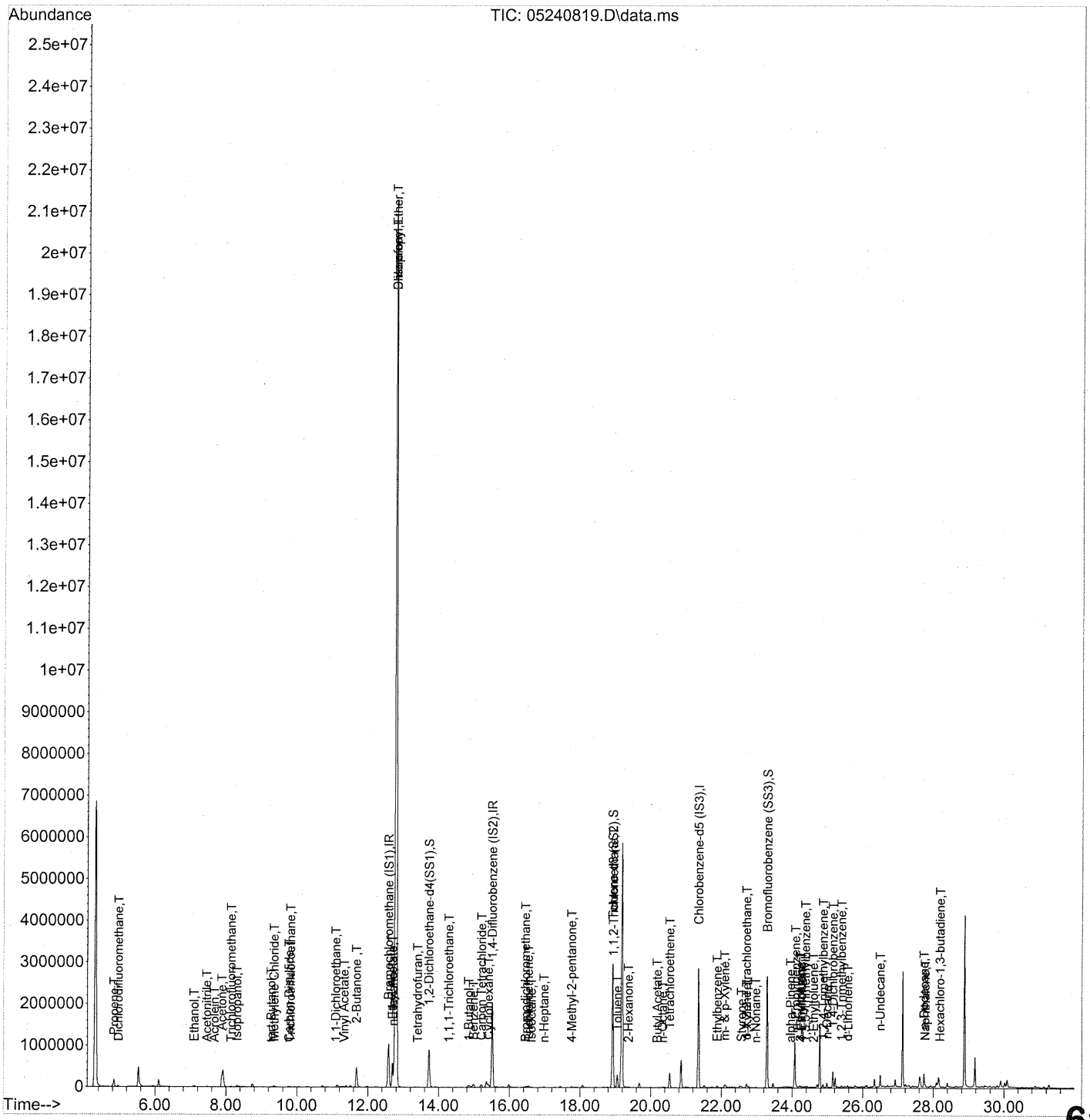
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: Ro Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
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Operator : WA
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Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	579106	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2412558	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1107058	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	908212	22.634	ng		0.00
Spiked Amount 25.000			Recovery =	90.52%			
57) Toluene-d8 (SS2)	18.93	98	2490267	25.047	ng		0.00
Spiked Amount 25.000			Recovery =	100.20%			
73) Bromofluorobenzene (SS3)	23.29	174	1015644	25.120	ng		0.00
Spiked Amount 25.000			Recovery =	100.48%			
Target Compounds							Qvalue
2) Propene	4.84	42	27221	0.595	ng	#	1
3) Dichlorodifluoromethane	4.97	85	22955	0.272	ng		99
4) Chloromethane	5.32	50	1937	N.D.			
5) Freon 114	5.53	135	710	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.02	54	583	N.D.			
8) Bromomethane	6.51	94	196	N.D.			
9) Chloroethane	6.84	64	714	N.D.			
10) Ethanol	7.10	45	57287m	1.881	ng		
11) Acetonitrile	7.46	41	18237	0.207	ng		96
12) Acrolein	7.67	56	8006	0.368	ng		92
13) Acetone	7.89	58	117280	3.762	ng	#	1
14) Trichlorofluoromethane	8.14	101	14303	0.198	ng		98
15) Isopropanol	8.32	45	82206	0.827	ng		96
16) Acrylonitrile	8.65	53	496	N.D.			
17) 1,1-Dichloroethene	9.17	96	755	N.D.			
18) tert-Butanol	9.27	59	20149m	0.238	ng		
19) Methylene Chloride	9.36	84	13266	0.381	ng	#	66
20) Allyl Chloride	9.54	41	169	N.D.			
21) Trichlorotrifluoroethane	9.82	151	2202	0.067	ng		87
22) Carbon Disulfide	9.77	76	32986	0.249	ng		90
23) trans-1,2-Dichloroethene	10.72	61	204	N.D.			
24) 1,1-Dichloroethane	11.10	63	3135	0.052	ng		98
25) Methyl tert-Butyl Ether	11.13	73	799	N.D.			
26) Vinyl Acetate	11.33	86	2869	0.498	ng	#	1
27) 2-Butanone	11.68	72	183705	8.074	ng	#	89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.79	87	2982752	~~106.984~~	ng	NR#	1
30) Ethyl Acetate	12.69	61	109255	8.895	ng		84
31) n-Hexane	12.71	57	12230	0.197	ng	#	71

616

5/29/08

Quantitation Report (QT Reviewed)

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Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.79	83	24098211	~~456.342 ng~~ sw dil		92
34) Tetrahydrofuran	13.40	72	1138	0.052 ng	#	1
35) Ethyl tert-Butyl Ether	13.50	87	299	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	453	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	4161	0.076 ng		88
39) Isopropyl Acetate	14.96	61	77	N.D.		
40) 1-Butanol	14.85	56	53664	1.618 ng		92
41) Benzene	14.99	78	89296	0.707 ng		98
42) Carbon Tetrachloride	15.21	117	55377	1.138 ng		99
43) Cyclohexane	15.41	84	42364	0.862 ng	#	49
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	752	N.D. ✓		
46) Bromodichloromethane	16.45	83	21155	0.495 ng		99
47) Trichloroethene	16.54	130	13786	0.356 ng		100
48) 1,4-Dioxane	16.53	88	61	N.D. ✓		
49) Isooctane	16.62	57	7769	0.054 ng	#	45
50) Methyl Methacrylate	16.80	100	181	N.D. ✓		
51) n-Heptane	16.98	71	3418	0.102 ng	#	75
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	5199	0.155 ng		72
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	219442	~~7.030 ng~~ NR	#	9
58) Toluene	19.06	91	281675	2.084 ng		98
59) 2-Hexanone	19.37	43	10772	0.116 ng	#	59
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	7659	0.081 ng		91
63) n-Octane	20.34	57	2854	0.095 ng		97
64) Tetrachloroethene	20.54	166	135472	3.388 ng		99
65) Chlorobenzene	21.41	112	2094	N.D. ✓		
66) Ethylbenzene	21.88	91	38206	0.247 ng		96
67) m- & p-Xylene	22.10	91	69248	0.668 ng		91
68) Bromoform	22.21	173	268	N.D. ✓		
69) Styrene	22.57	104	21013	0.227 ng		96
70) o-Xylene	22.72	91	31341	0.280 ng		94
71) n-Nonane	22.98	43	5969	0.075 ng		83
72) 1,1,2,2-Tetrachloroethane	22.71	83	2405	~~0.052 ng~~ NR	#	51
74) Cumene	23.46	105	3667	N.D. ✓		
75) alpha-Pinene	23.95	93	8434	0.109 ng		88
76) n-Propylbenzene	24.10	91	10939	0.058 ng	#	86
77) 3-Ethyltoluene	24.23	105	24097	0.152 ng		98
78) 4-Ethyltoluene	24.27	105	12227	0.083 ng		91
79) 1,3,5-Trimethylbenzene	24.38	105	11355	0.085 ng		94

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	1303	N.D. ✓	
81) 2-Ethyltoluene	24.60	105	10020	0.062 ng	96
82) 1,2,4-Trimethylbenzene	24.88	105	39622	0.291 ng	87
83) n-Decane	24.98	57	41298	0.552 ng	74
84) Benzyl Chloride	25.04	91	590	N.D. ✓	
85) 1,3-Dichlorobenzene	25.07	146	954	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	157225	1.907 ng	99
87) sec-Butylbenzene	25.21	105	2048	N.D. ✓	
88) p-Isopropyltoluene	25.41	119	5722	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.40	105	11946	0.090 ng	87
90) 1,2-Dichlorobenzene	25.57	146	1376	N.D. ✓	
91) d-Limonene	25.58	68	14171	0.262 ng	94
92) 1,2-Dibromo-3-Chloropr...	26.24	157	61	N.D. ✓	
93) n-Undecane	26.50	57	97882	1.250 ng	74
94) 1,2,4-Trichlorobenzene	27.64	180	52	N.D. ✓	
95) Naphthalene	27.77	128	36369	0.203 ng	98
96) n-Dodecane	27.73	57	102511	1.316 ng	82
97) Hexachloro-1,3-butadiene	28.19	225	2723	~~0.069 ng~~ < MDL	87

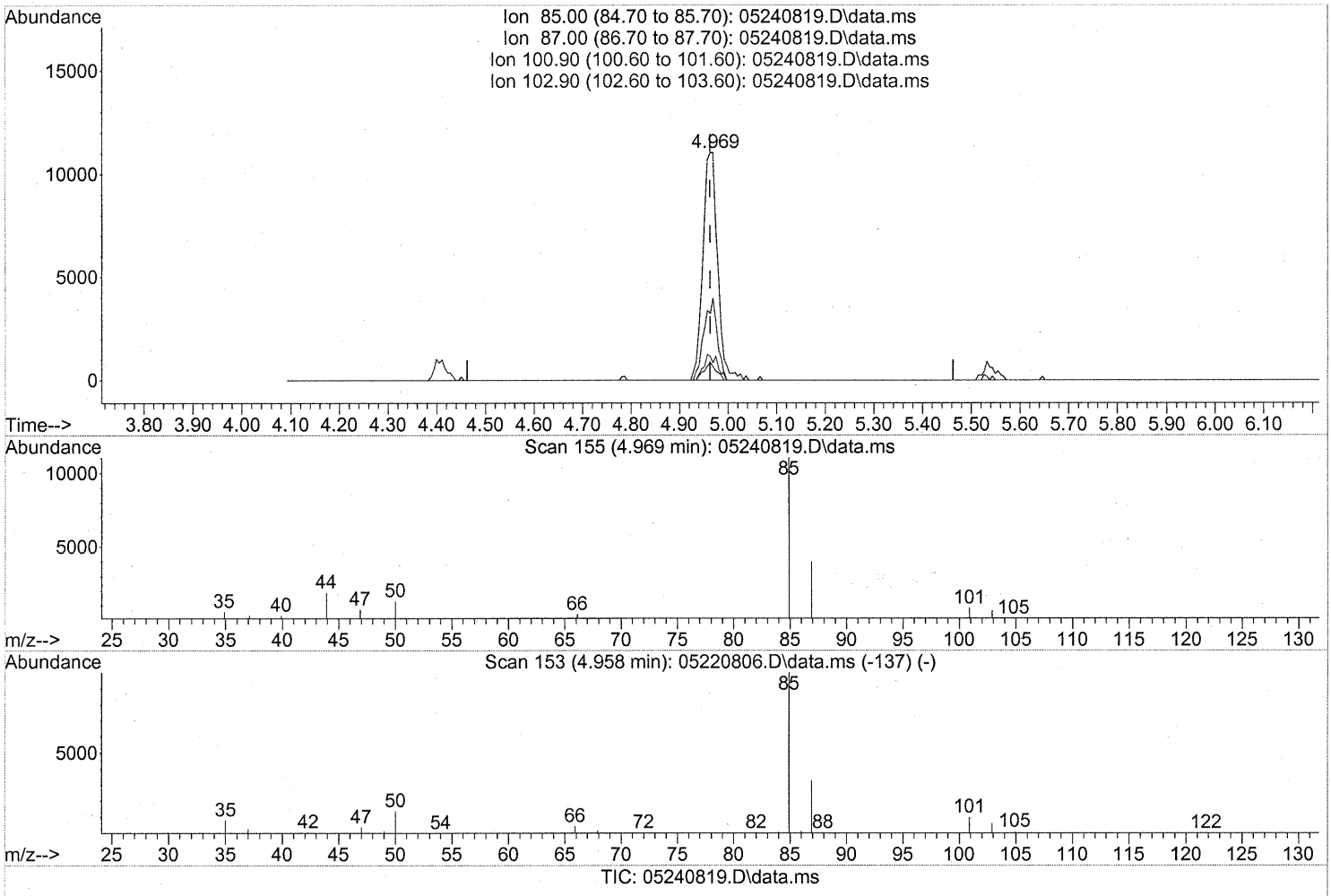
(#) = qualifier out of range (m) = manual integration (+) = signals summed

618

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.27ng

response 22955

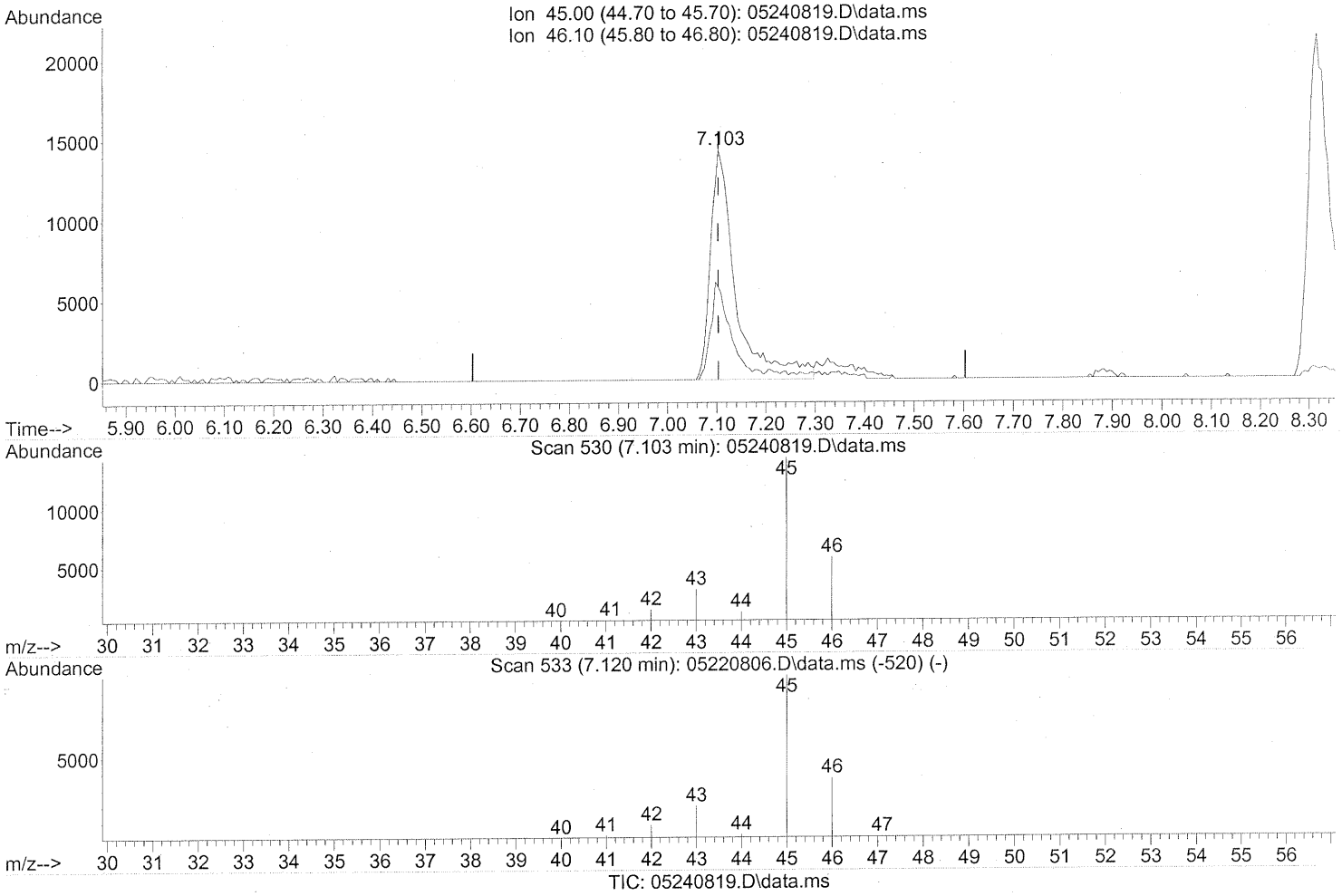
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.09
100.90	9.30	10.42
102.90	6.00	6.20

619

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA 4 JOH 5/29/08
Sample : P0801422-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 09:05:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(10) Ethanol (T)

7.103min (+0.000) 1.68ng

response 51161

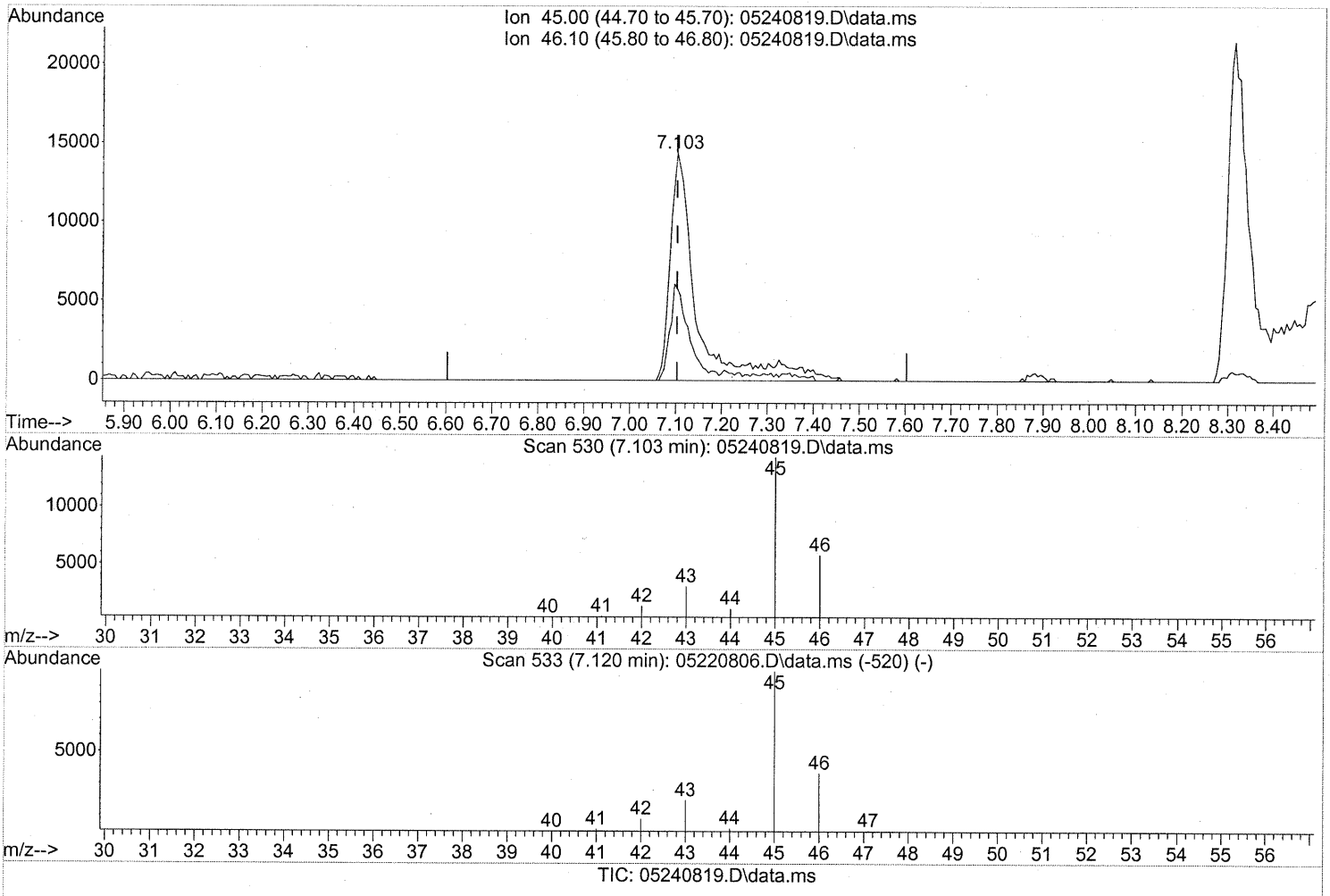
tailing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(10) Ethanol (T)

7.103min (+0.000) 1.88ng m

response 57287

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.13
0.00	0.00	0.00
0.00	0.00	0.00

added tailing
5/29/08

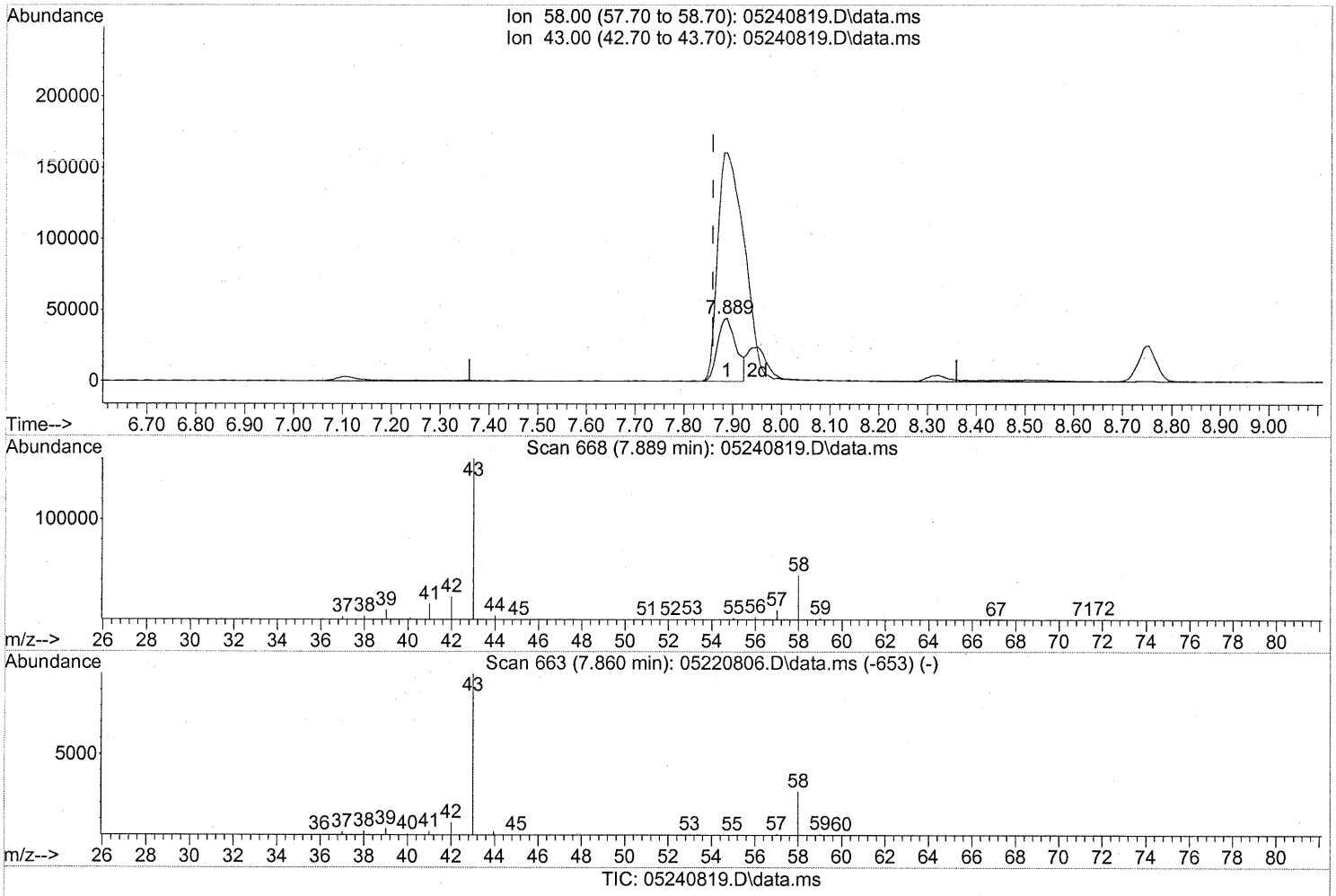
5/30/08

621

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(13) Acetone (T)

7.889min (+0.029) 3.76ng

response 117280

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	522.95#
0.00	0.00	0.00
0.00	0.00	0.00

622

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
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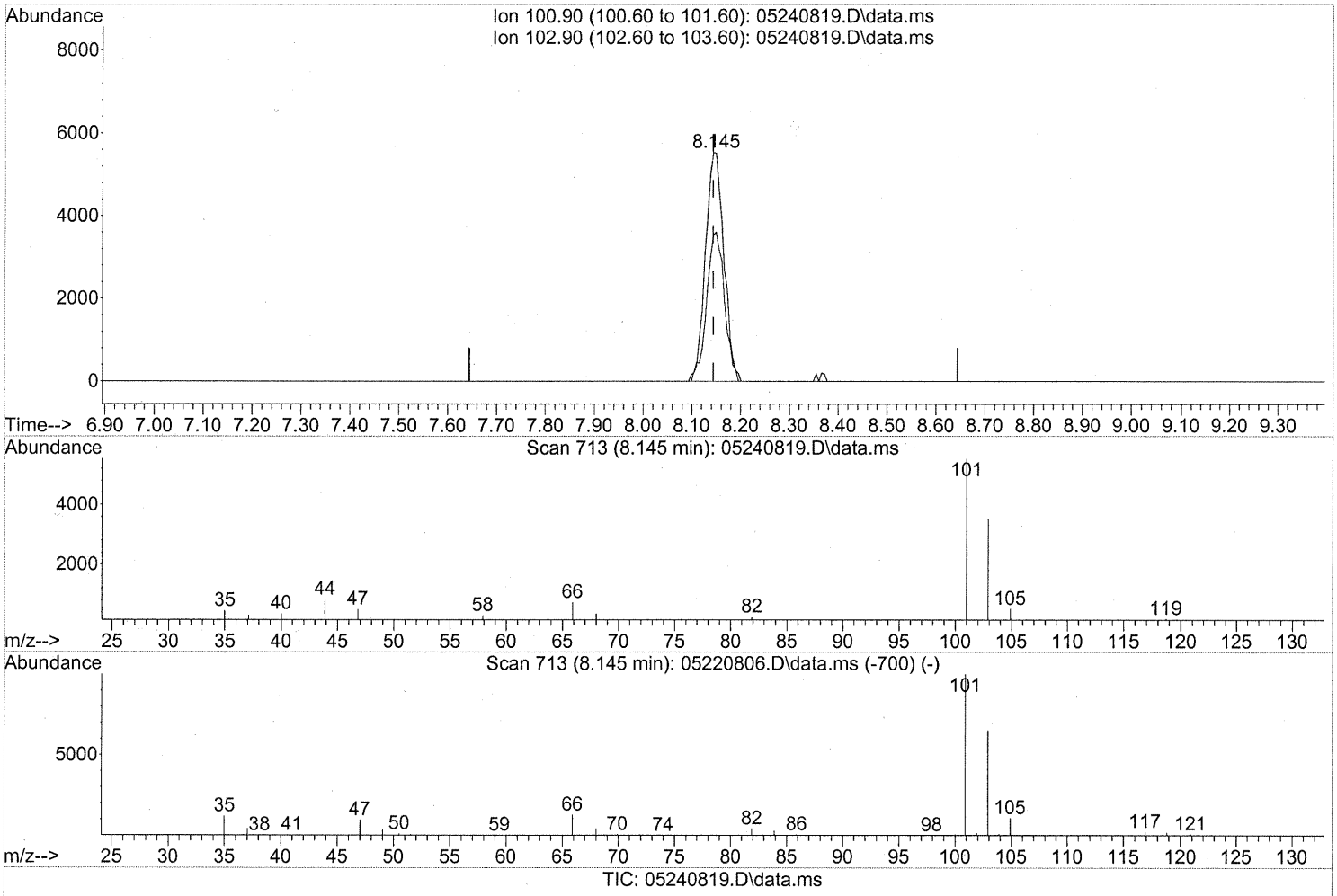
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (+0.000) 0.20ng

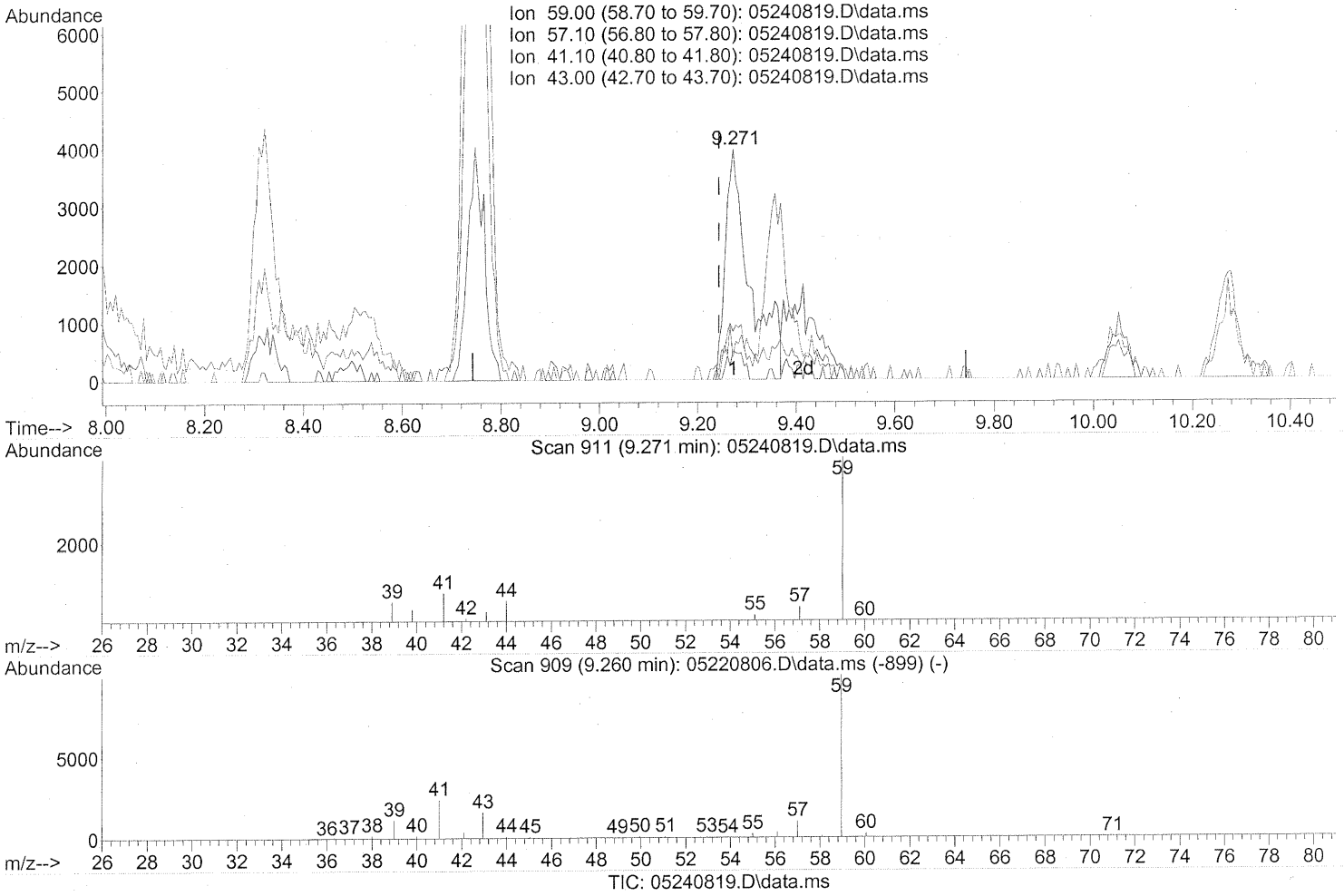
response 14303

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801422-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 09:05:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.16ng

response 13803

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	7.86
41.10	20.10	23.73
43.00	12.30	15.44

split peaks

624

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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Acq On : 24 May 2008 19:31
Operator : WA
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Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

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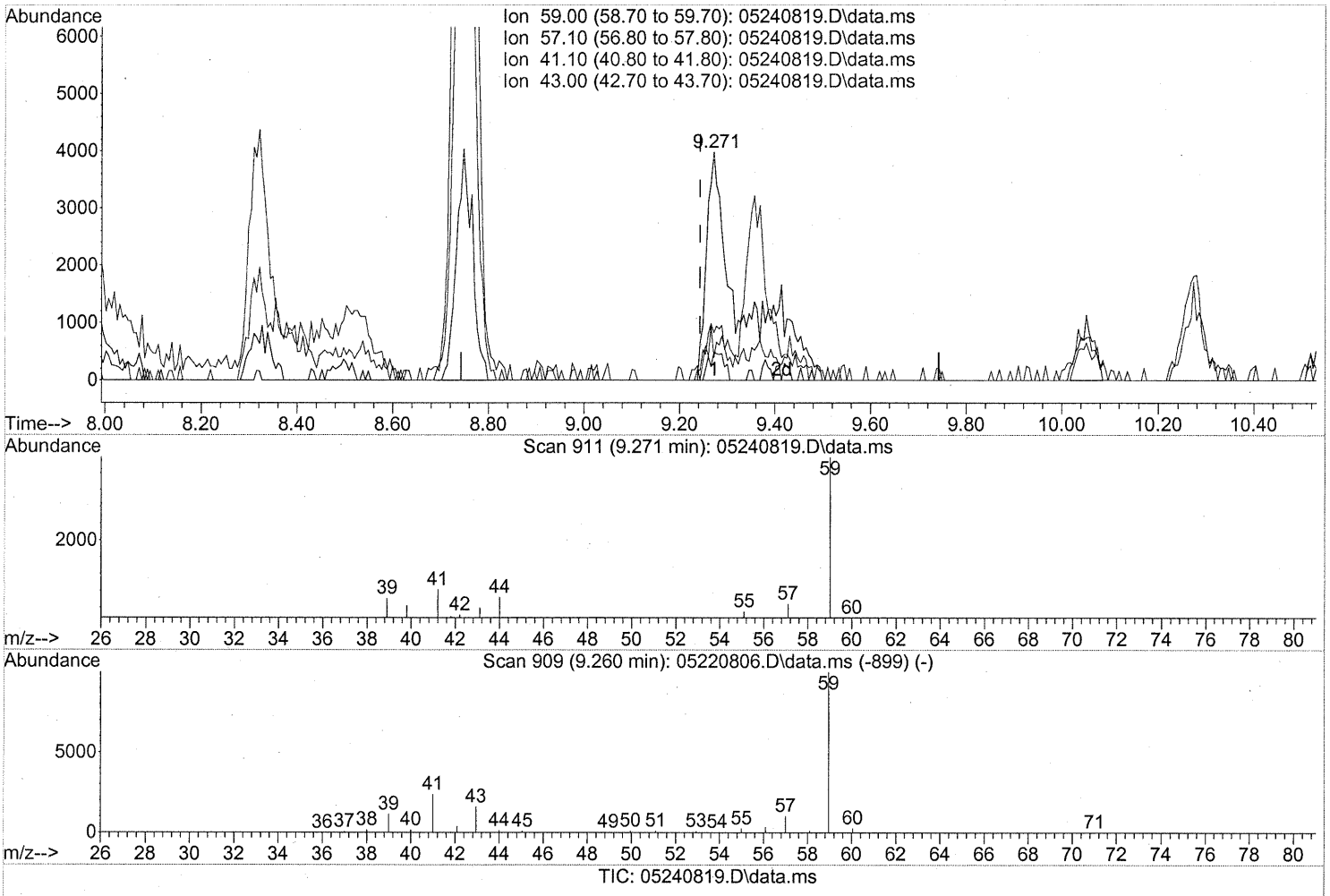
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(18) tert-Butanol (T)

9.271min (+0.028) 0.24ng m

response 20149

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.38
41.10	20.10	16.26
43.00	12.30	10.58

int. whole peaks
MM 5/29/08

Wt 5/30/08

625

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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Misc : ENSR SG84B-05 (-2.8, 3.5)
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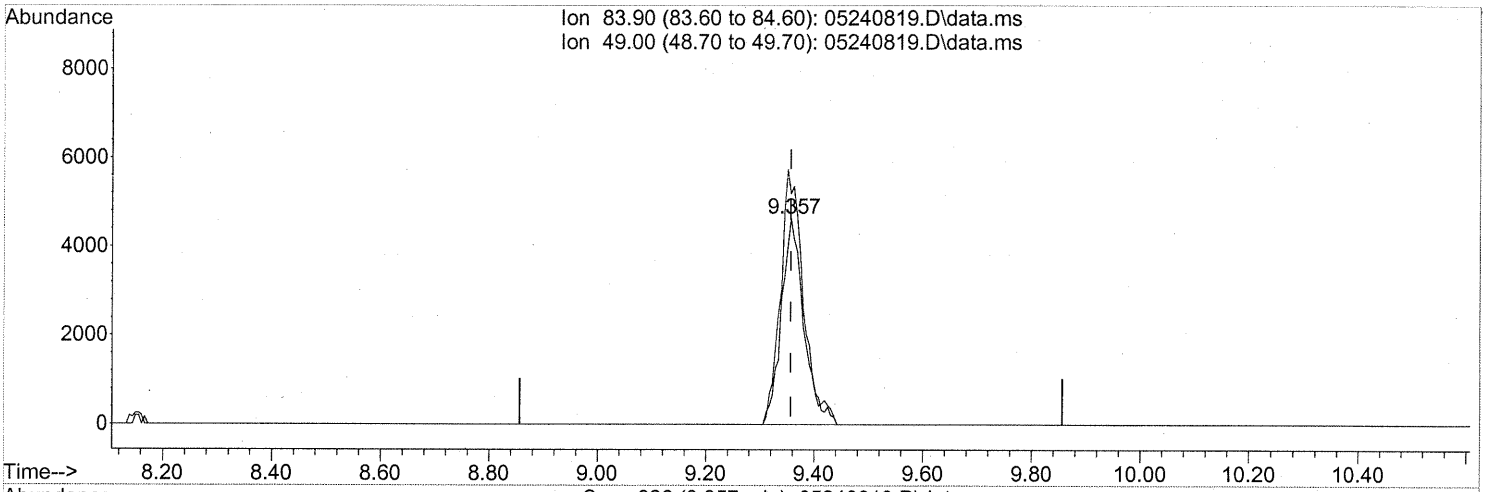
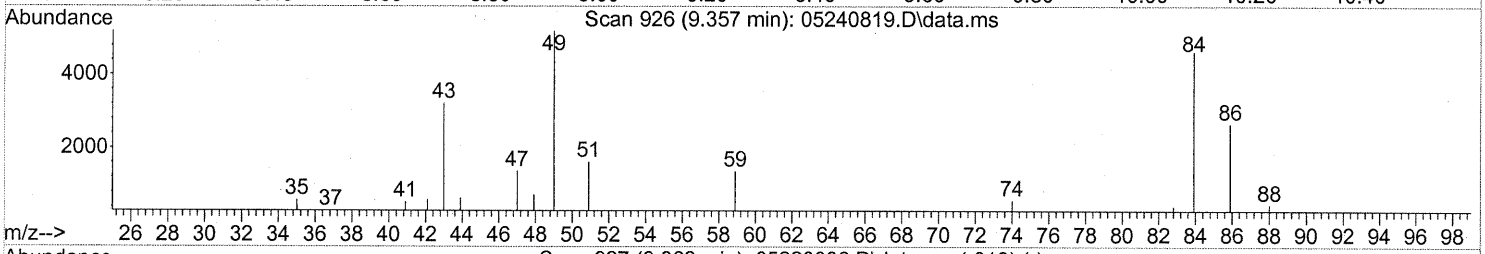
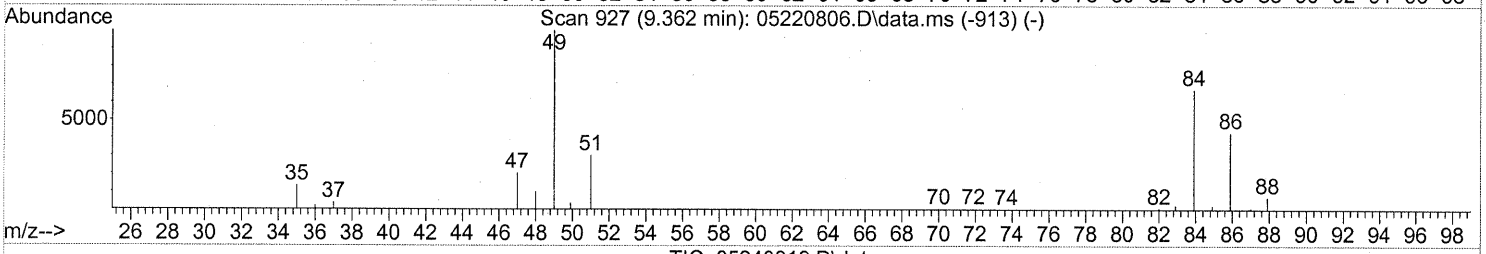
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(19) Methylene Chloride (T)

9.357min (+0.000) 0.38ng

response 13266

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	125.55#
0.00	0.00	0.00
0.00	0.00	0.00

626

Quantitation Report (Qedit)

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Acq On : 24 May 2008 19:31
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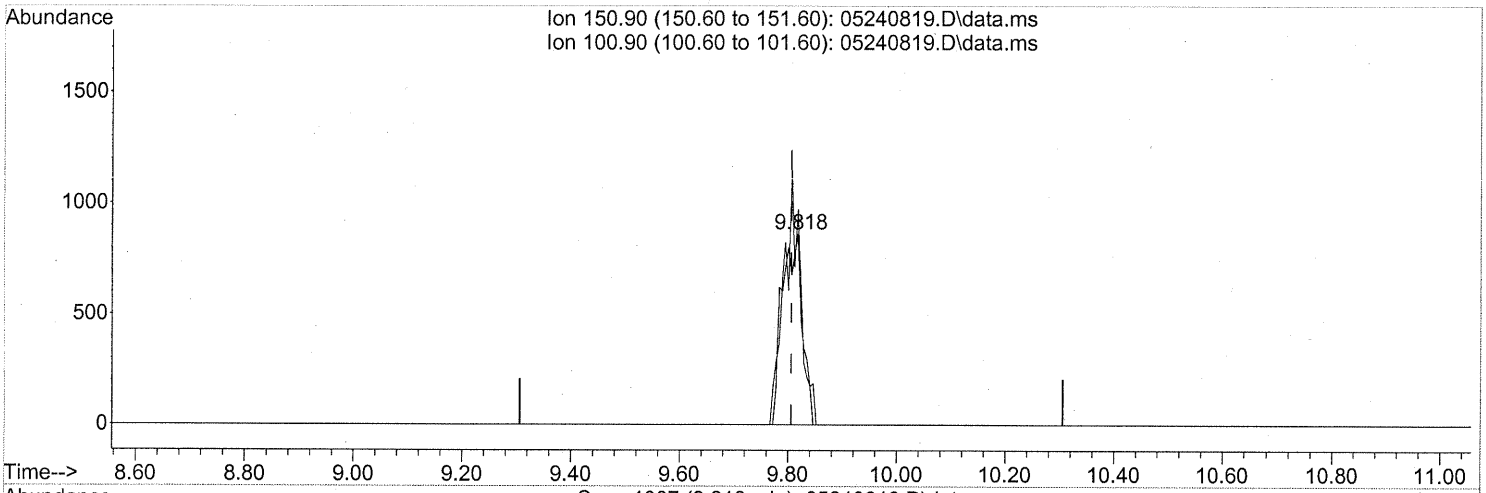
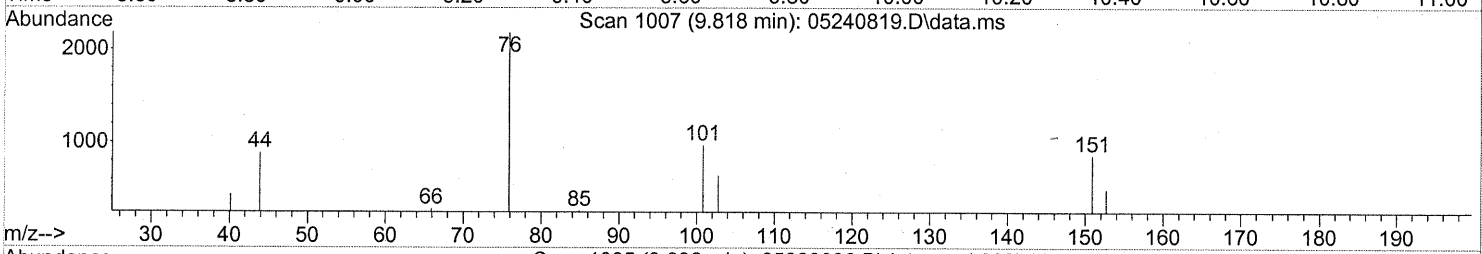
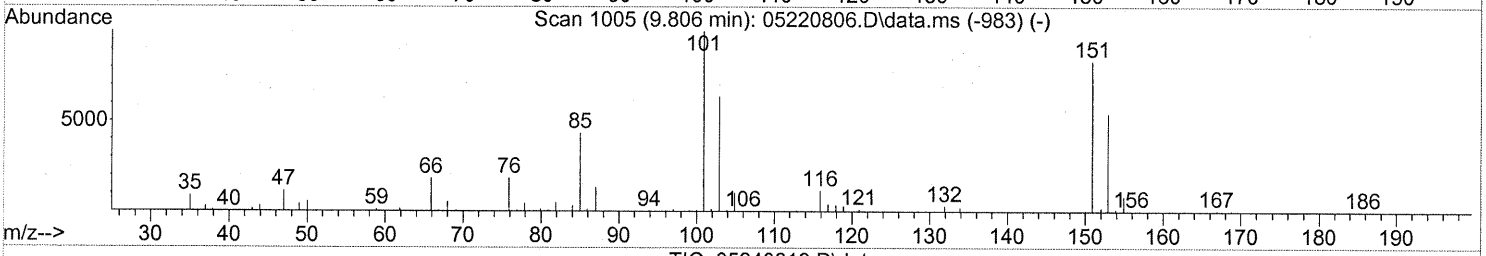
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.07ng

response 2202

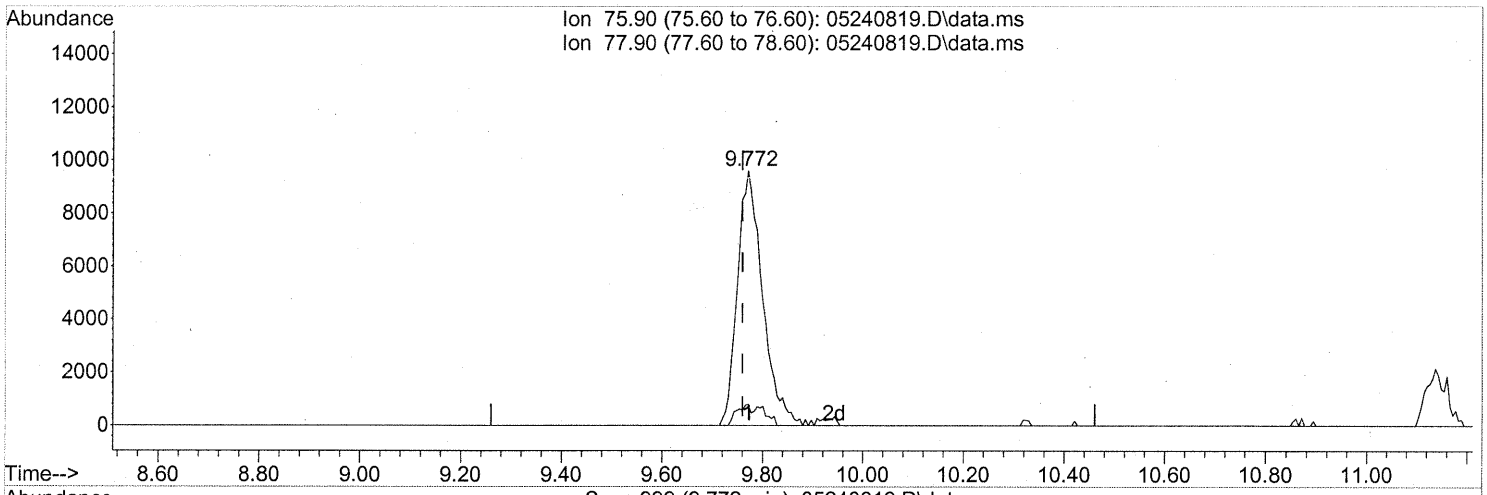
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	111.08
0.00	0.00	0.00
0.00	0.00	0.00

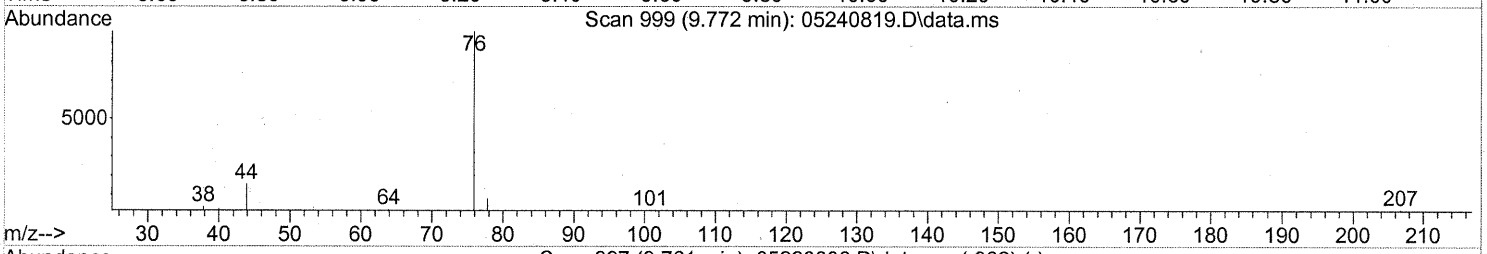
627

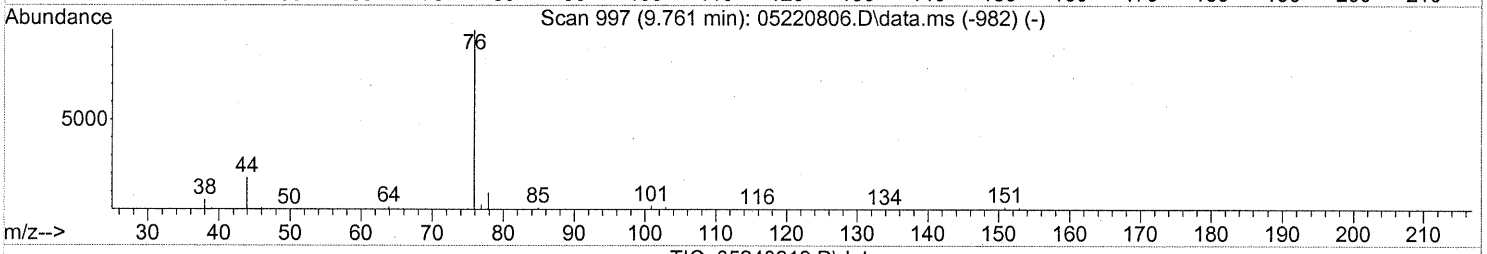
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(22) Carbon Disulfide (T)

9.772min (+0.011) 0.25ng

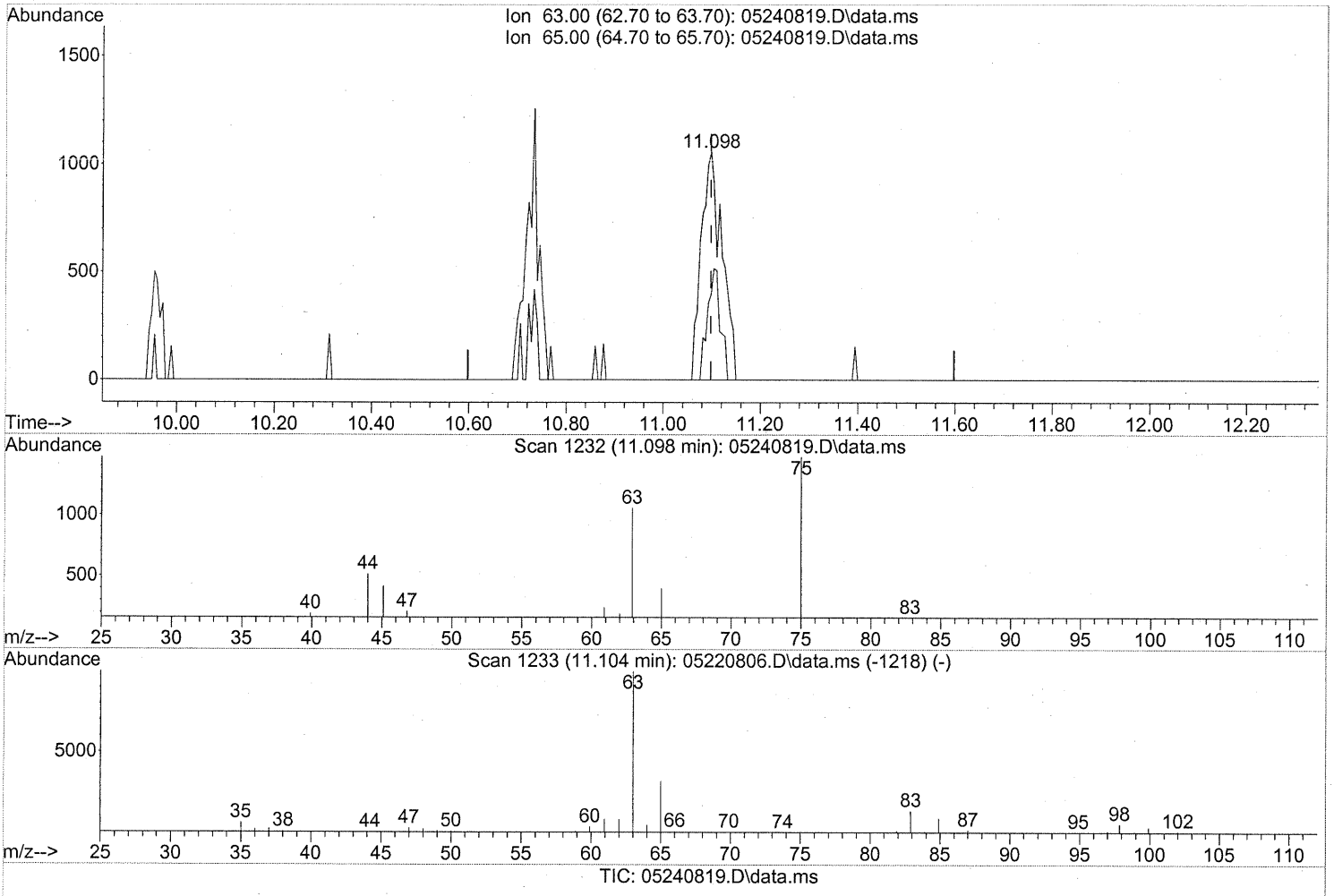
response 32986

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	5.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(24) 1,1-Dichloroethane (T)

11.098min (+0.000) 0.05ng

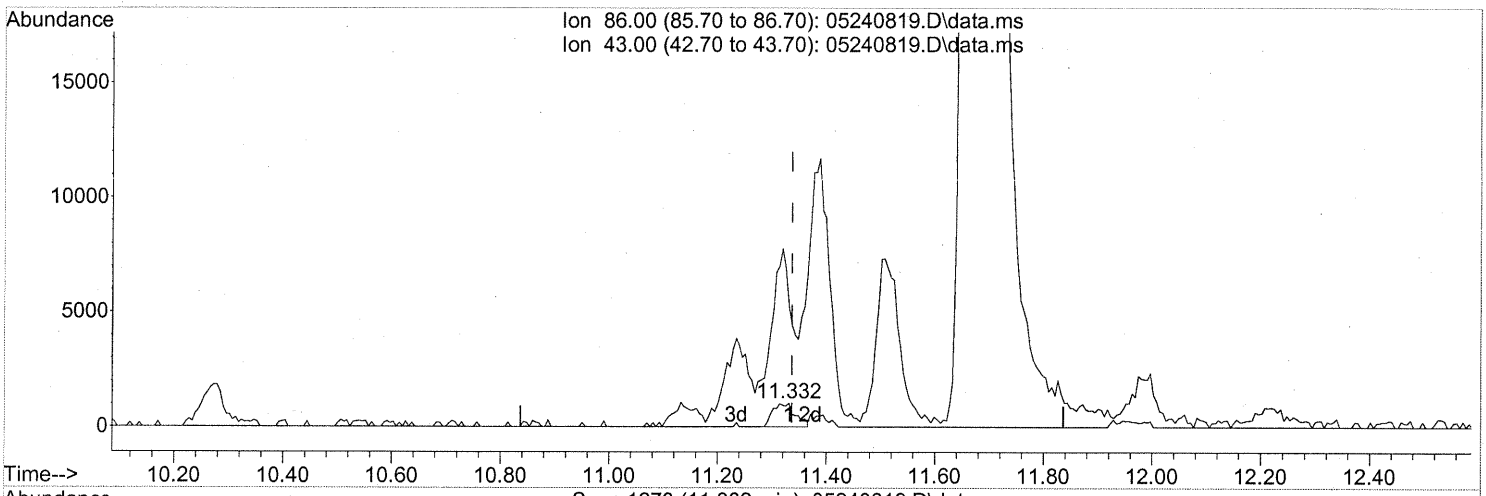
response 3135

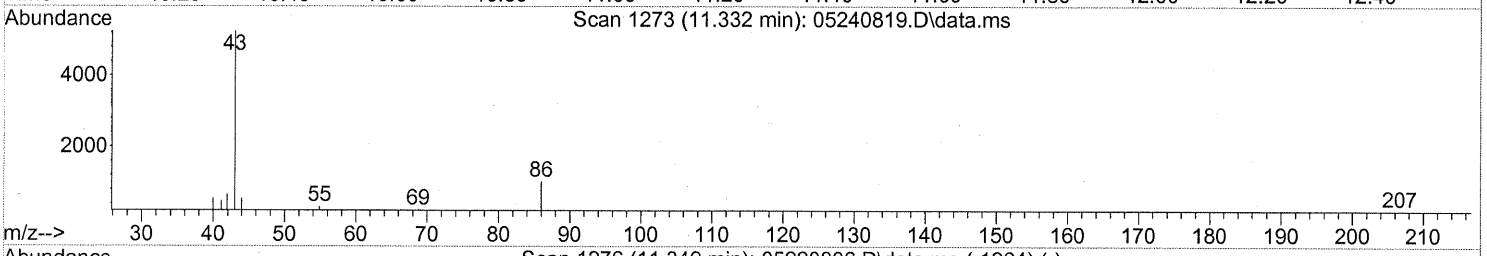
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	30.27
0.00	0.00	0.00
0.00	0.00	0.00

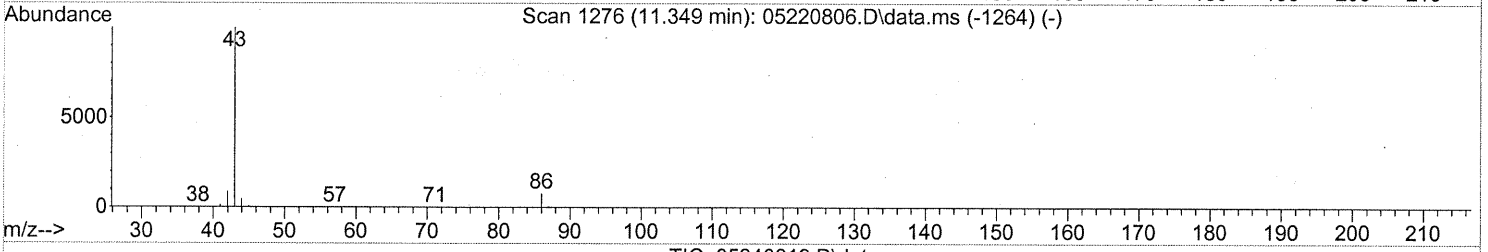
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(26) Vinyl Acetate (T)

11.332min (-0.005) 0.50ng

response 2869

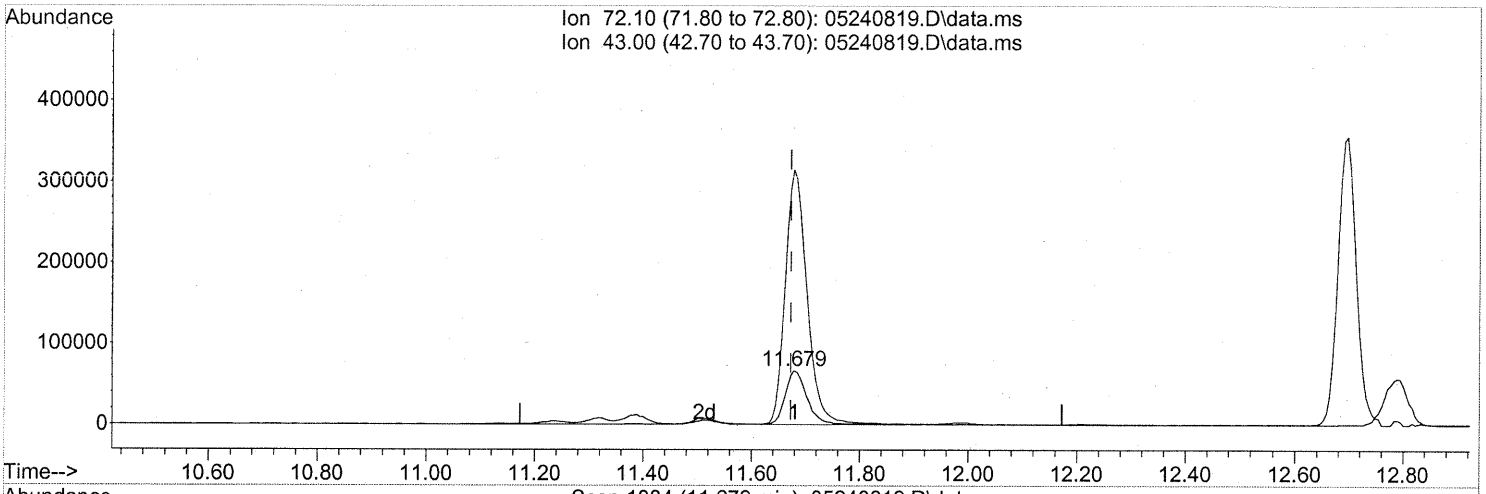
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	662.43#
0.00	0.00	0.00
0.00	0.00	0.00

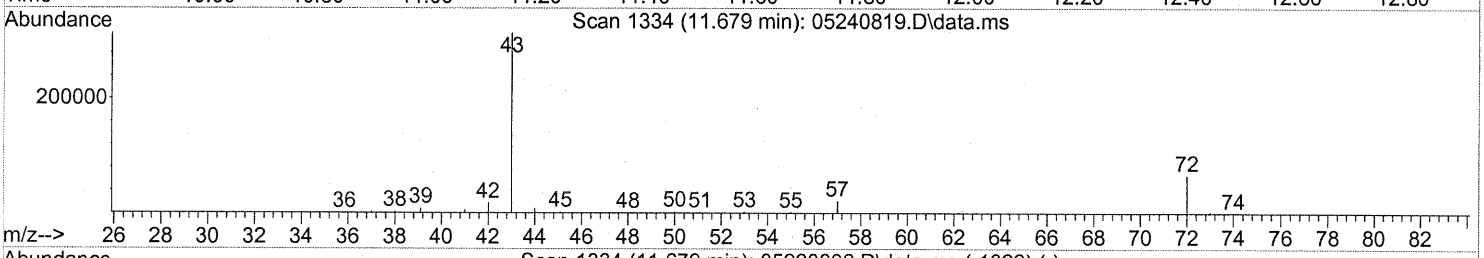
630

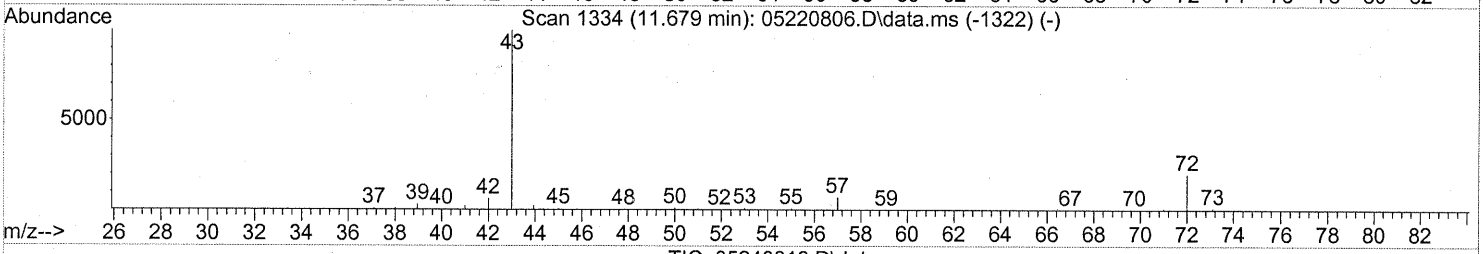
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 8.07ng

response 183705

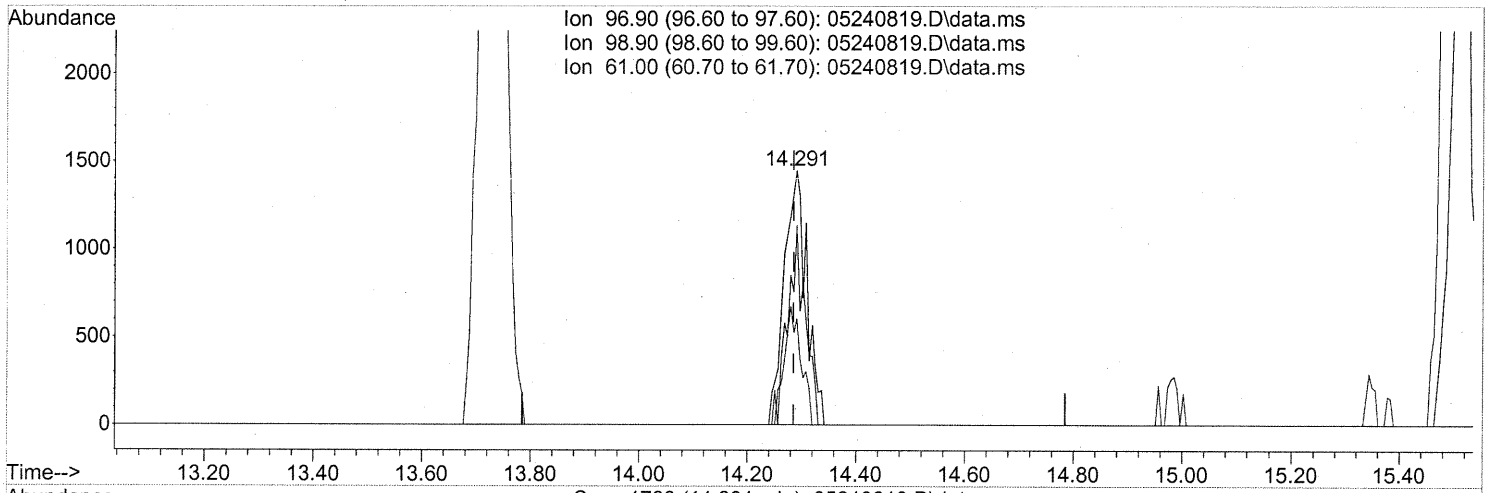
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	477.03#
0.00	0.00	0.00
0.00	0.00	0.00

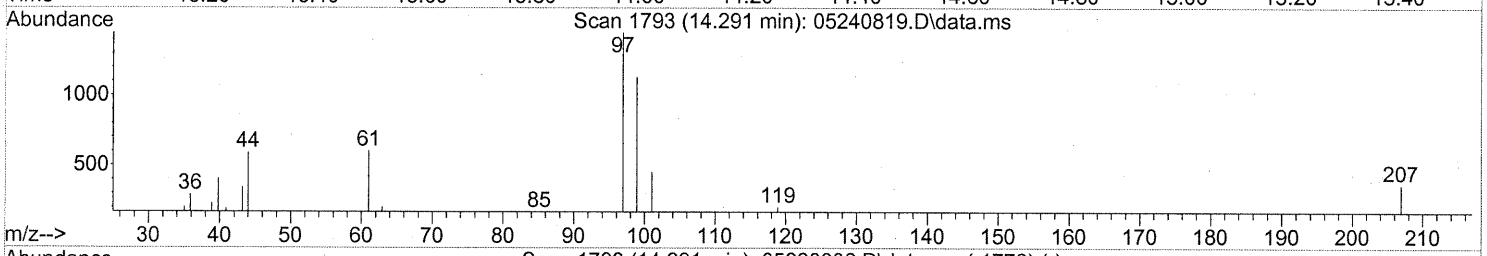
631

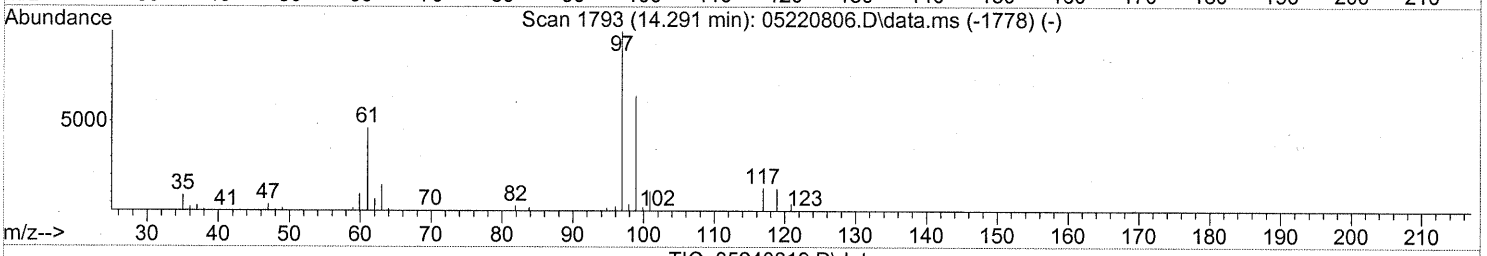
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.08ng

response 4161

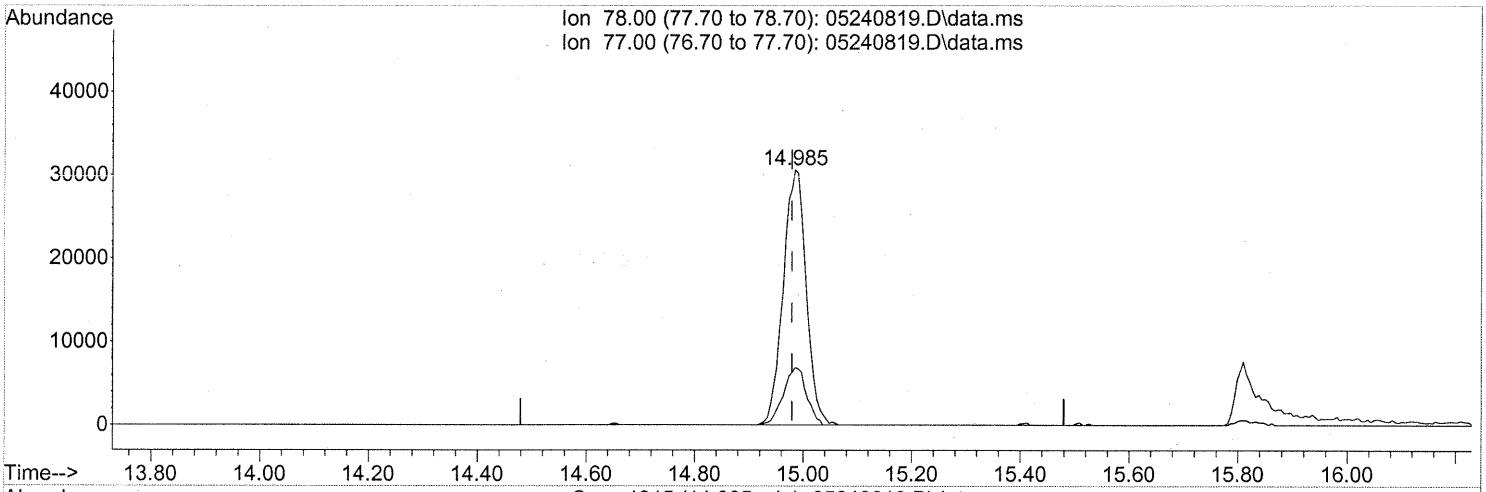
Ion	Exp%	Act%
96.90	100	100
98.90	63.40	61.02
61.00	50.50	35.02
0.00	0.00	0.00

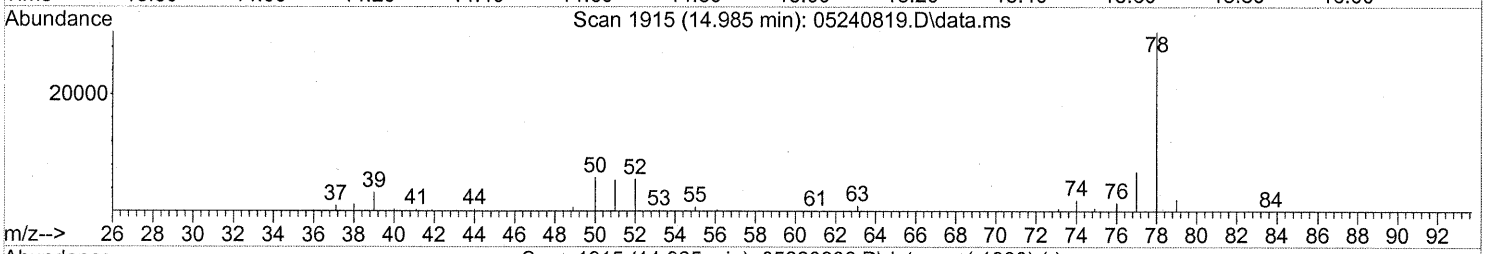
632

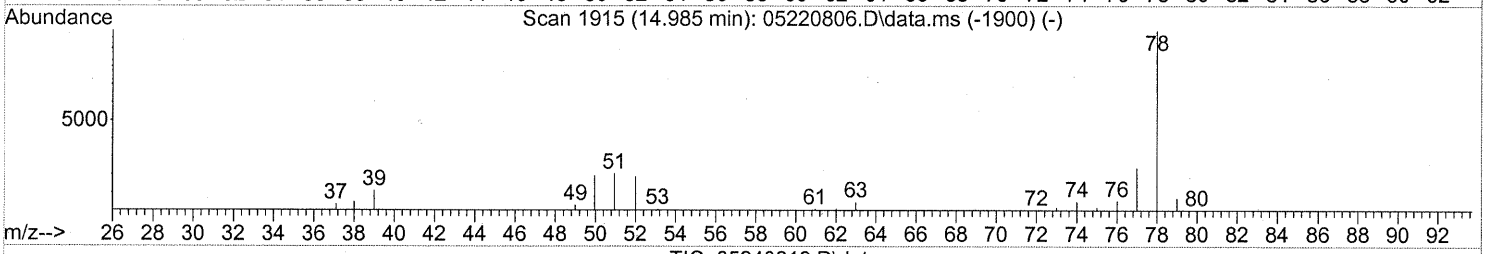
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(41) Benzene (T)

14.985min (+0.006) 0.71ng

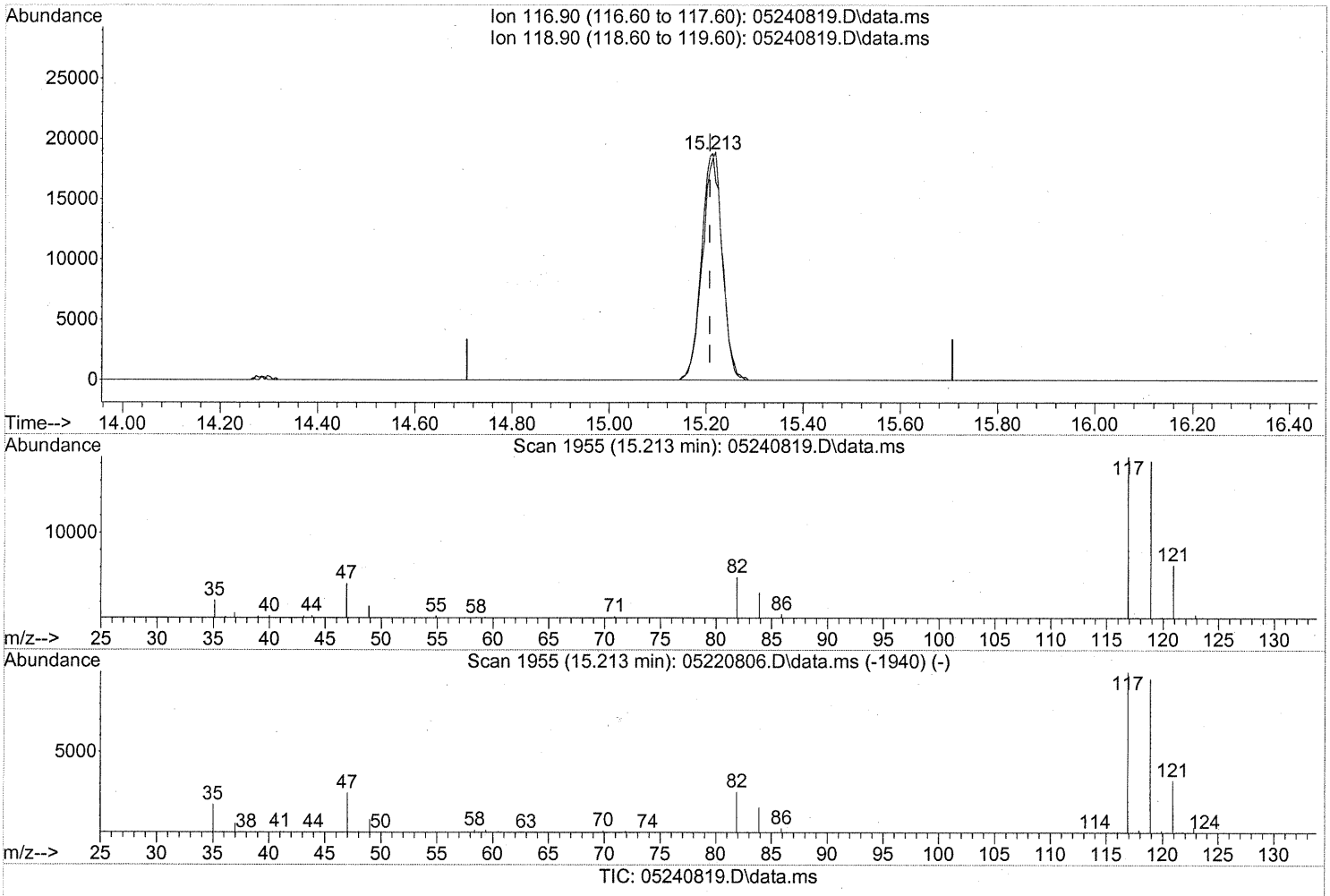
response 89296

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.53
0.00	0.00	0.00
0.00	0.00	0.00

633

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 1.14ng

response 55377

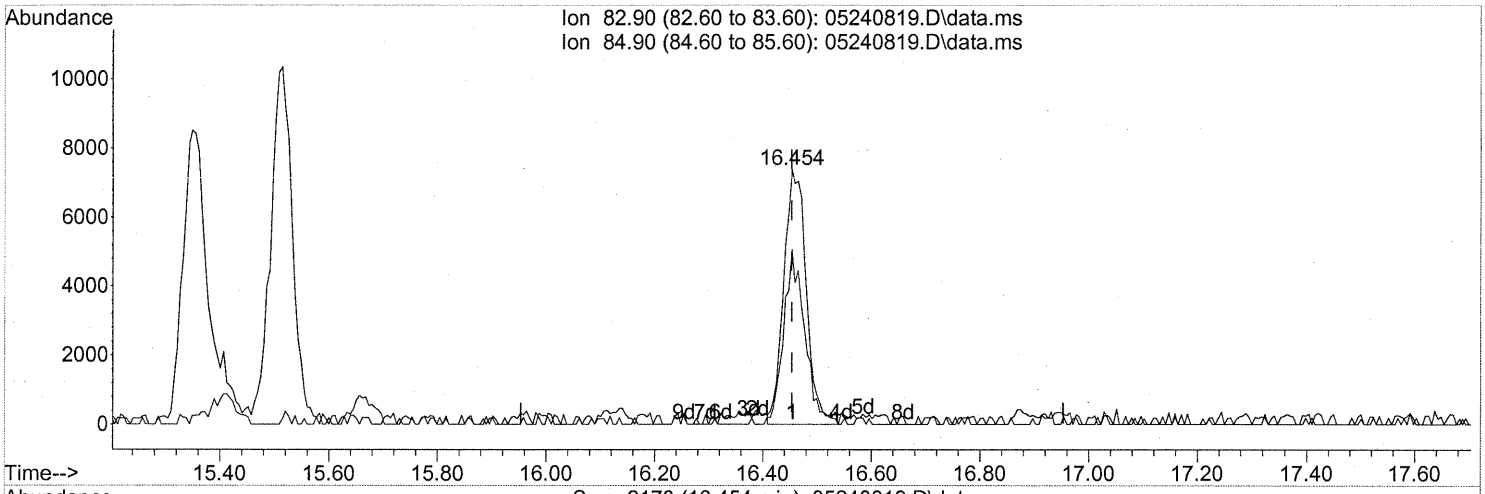
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	96.02
0.00	0.00	0.00
0.00	0.00	0.00

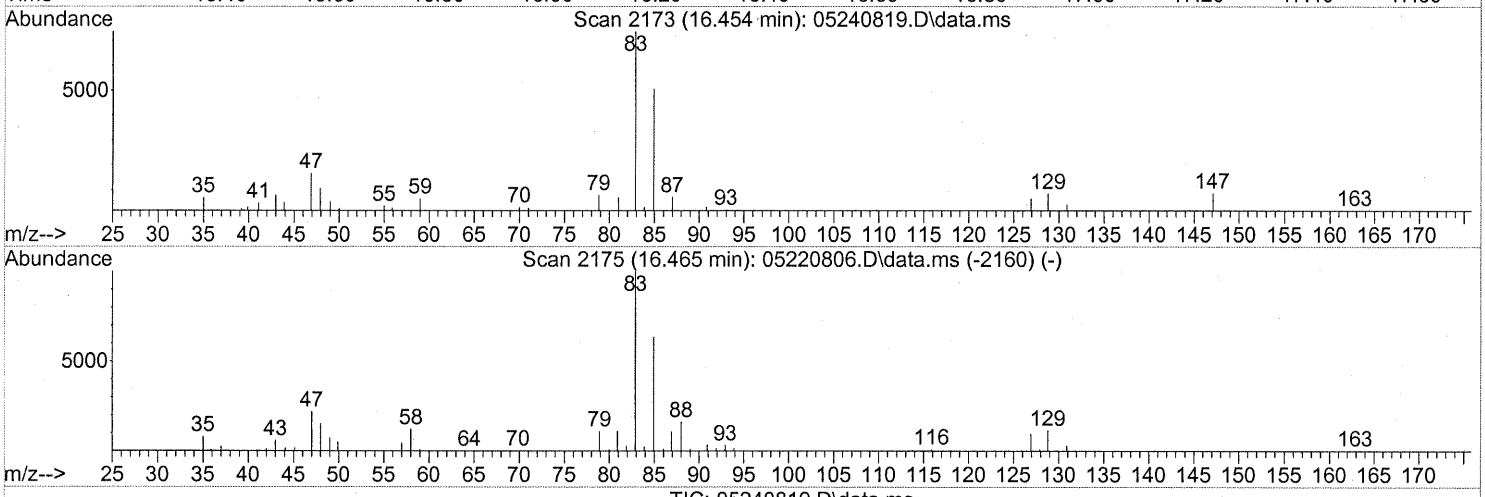
634

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration





TIC: 05240819.D\data.ms

(46) Bromodichloromethane (T)

16.454min (+0.000) 0.50ng

response 21155

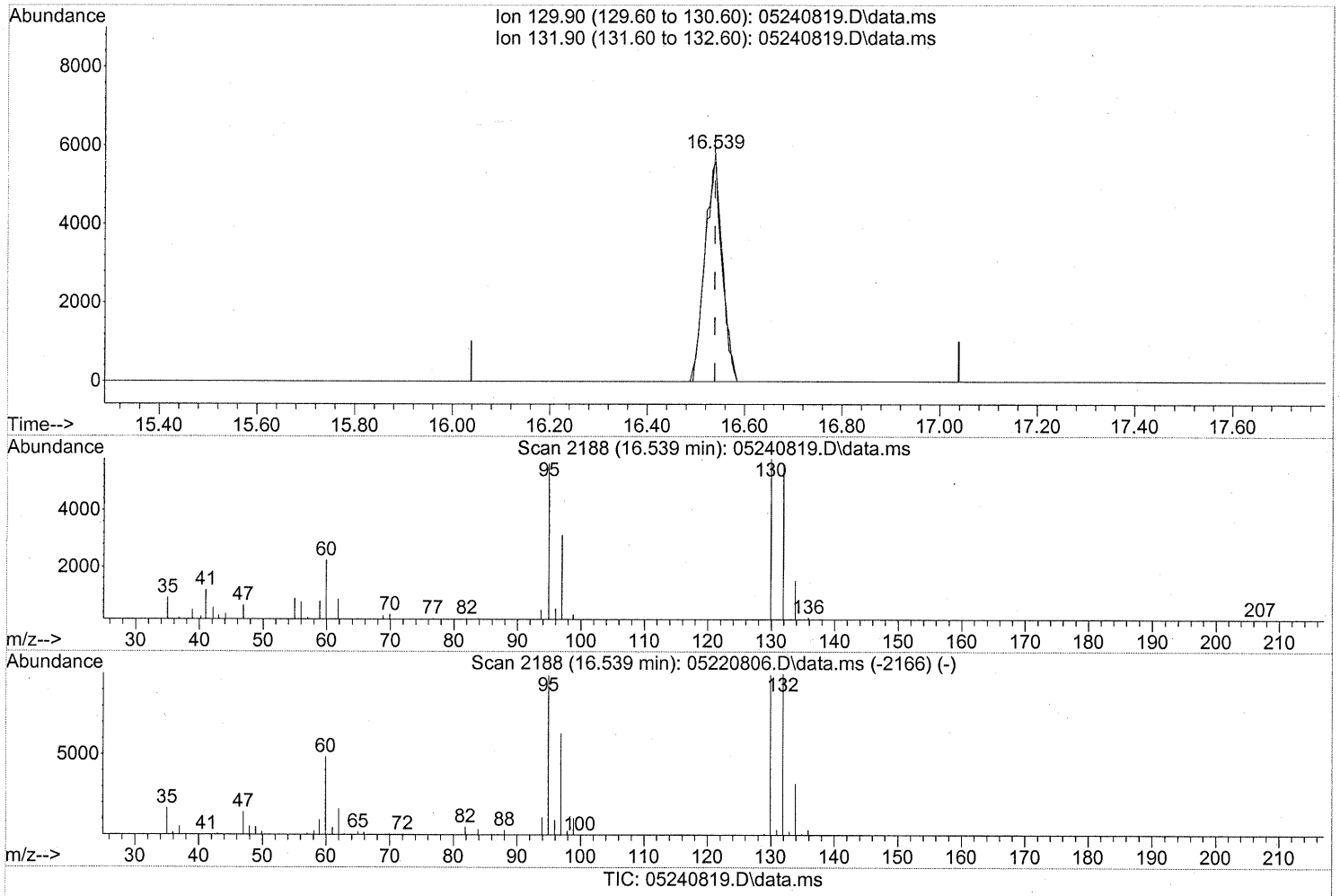
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.30
0.00	0.00	0.00
0.00	0.00	0.00

635

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(47) Trichloroethene (T)

16.539min (+0.000) 0.36ng

response 13786

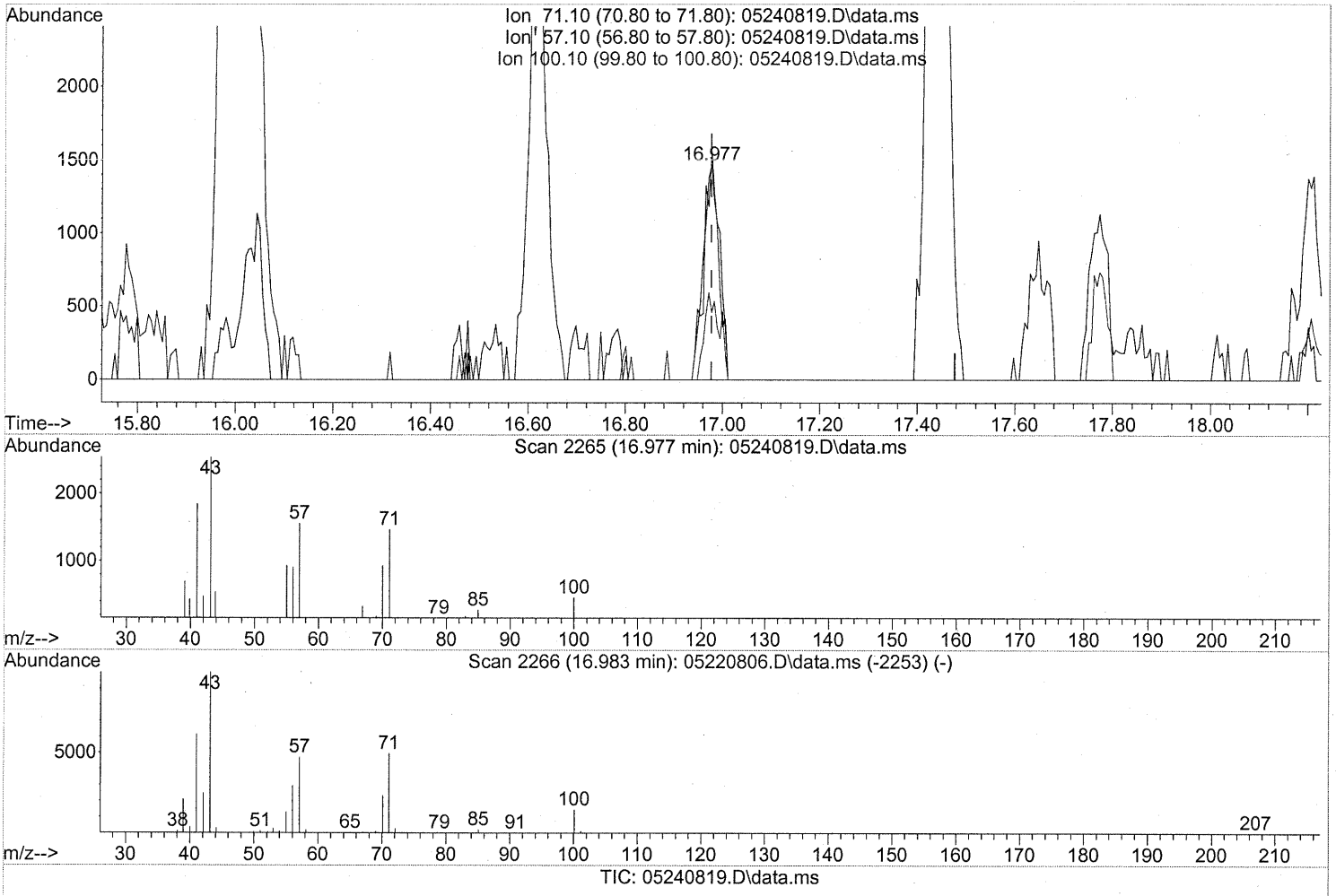
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.03
0.00	0.00	0.00
0.00	0.00	0.00

636

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(51) n-Heptane (T)

16.977min (+0.000) 0.10ng

response 3418

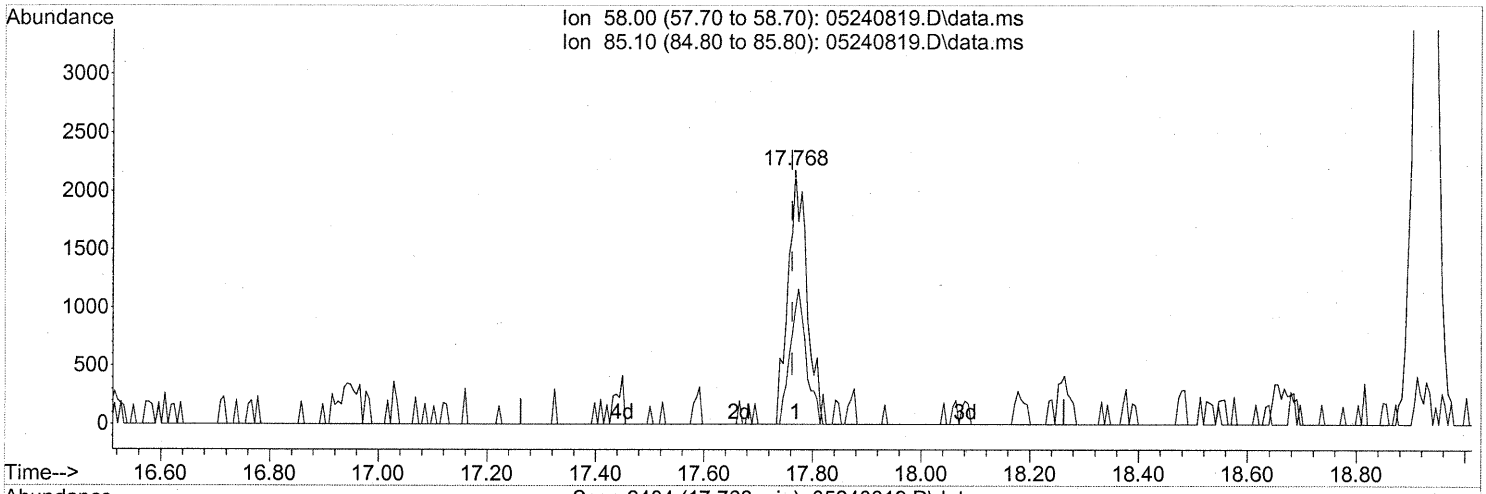
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	92.89#
100.10	30.10	36.86
0.00	0.00	0.00

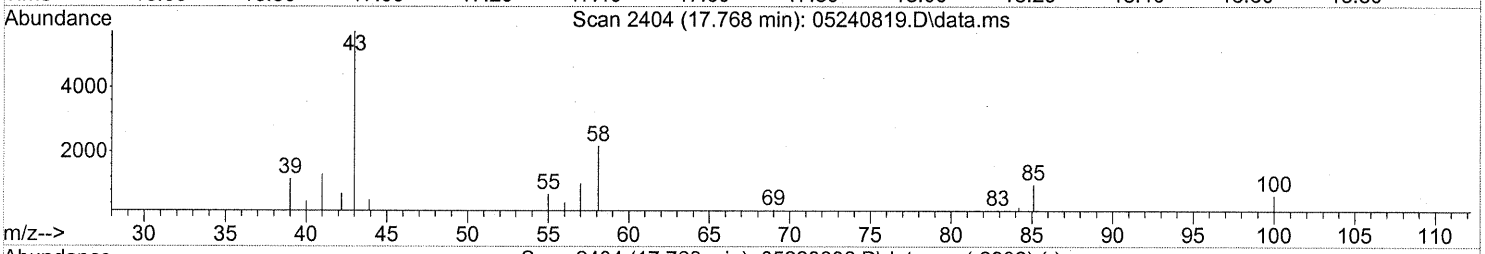
637

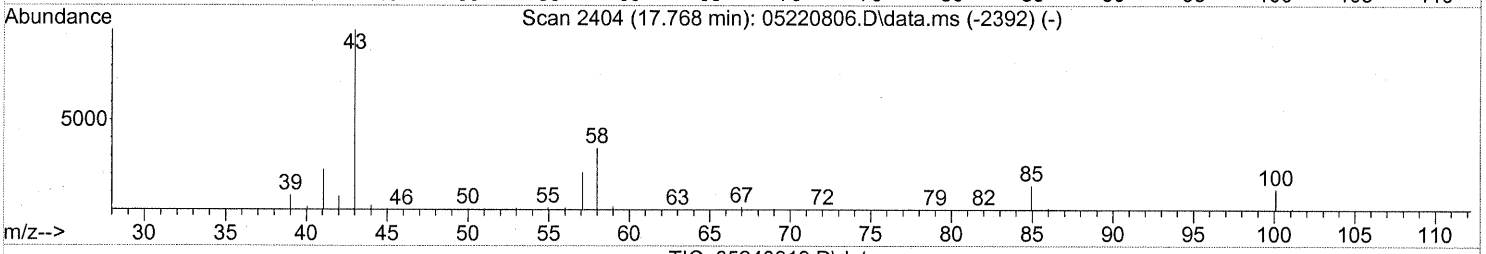
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

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

17.768min (+0.006) 0.16ng

response 5199

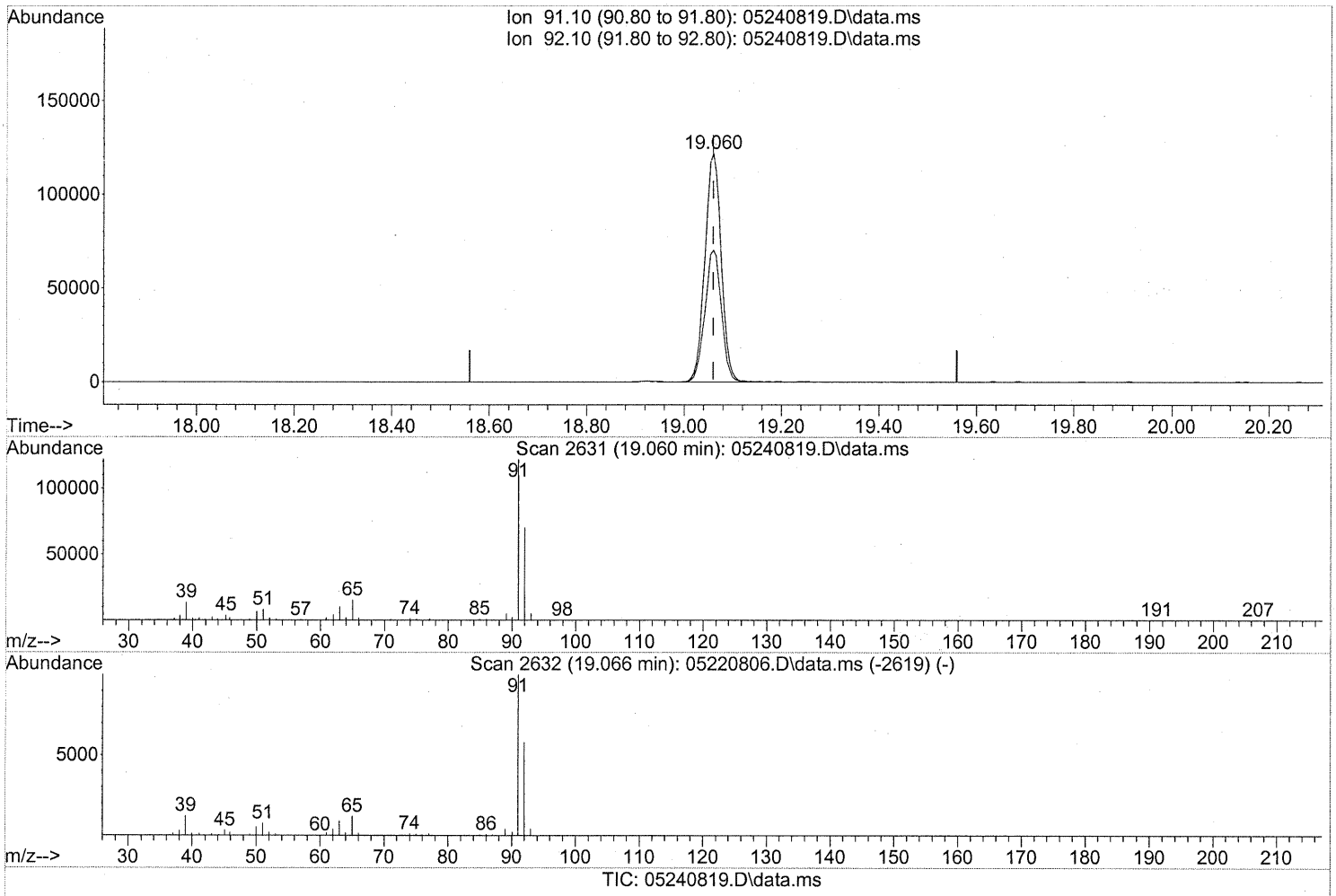
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	45.26
0.00	0.00	0.00
0.00	0.00	0.00

638

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 2.08ng

response 281675

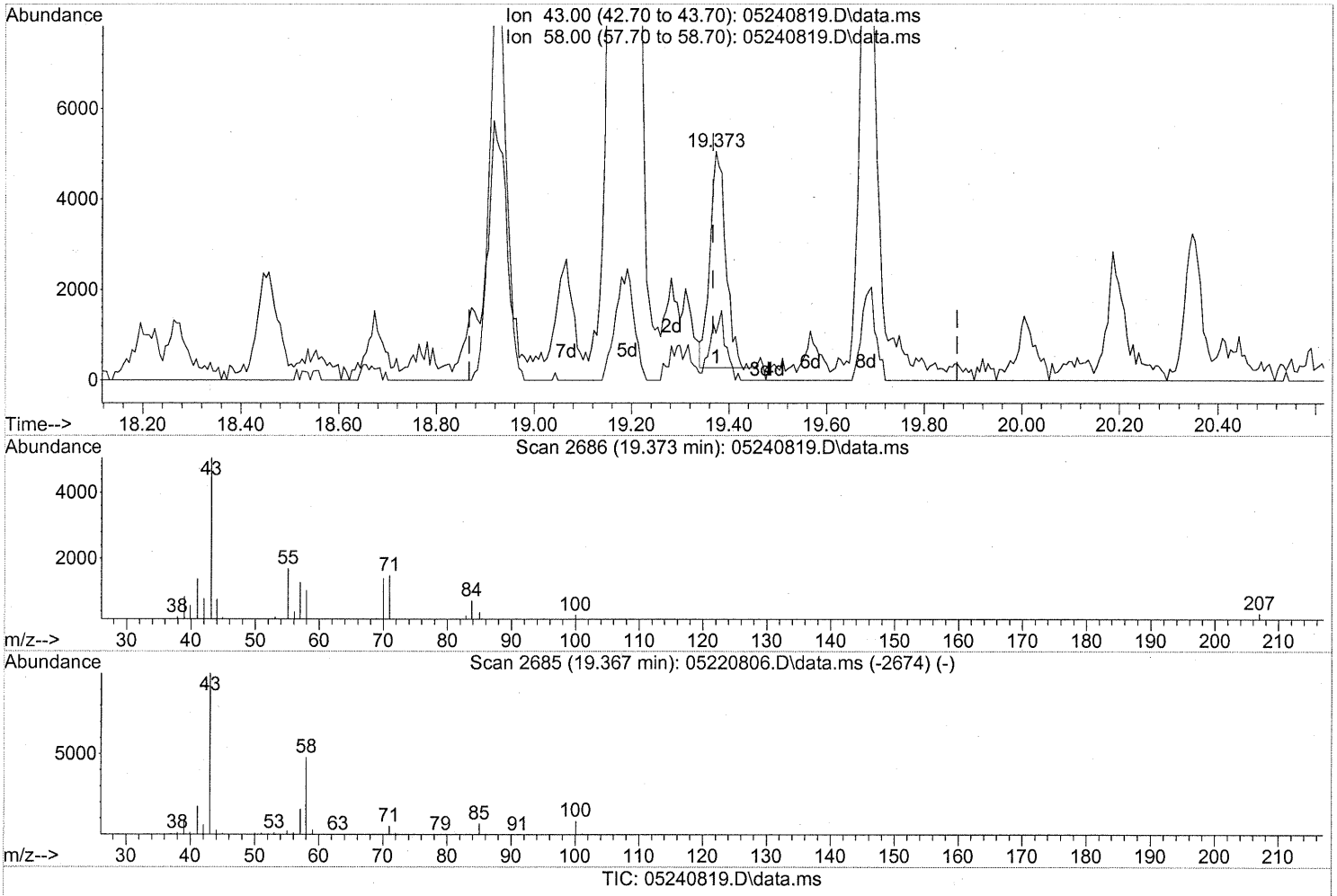
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.11
0.00	0.00	0.00
0.00	0.00	0.00

639

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.12ng

response 10772

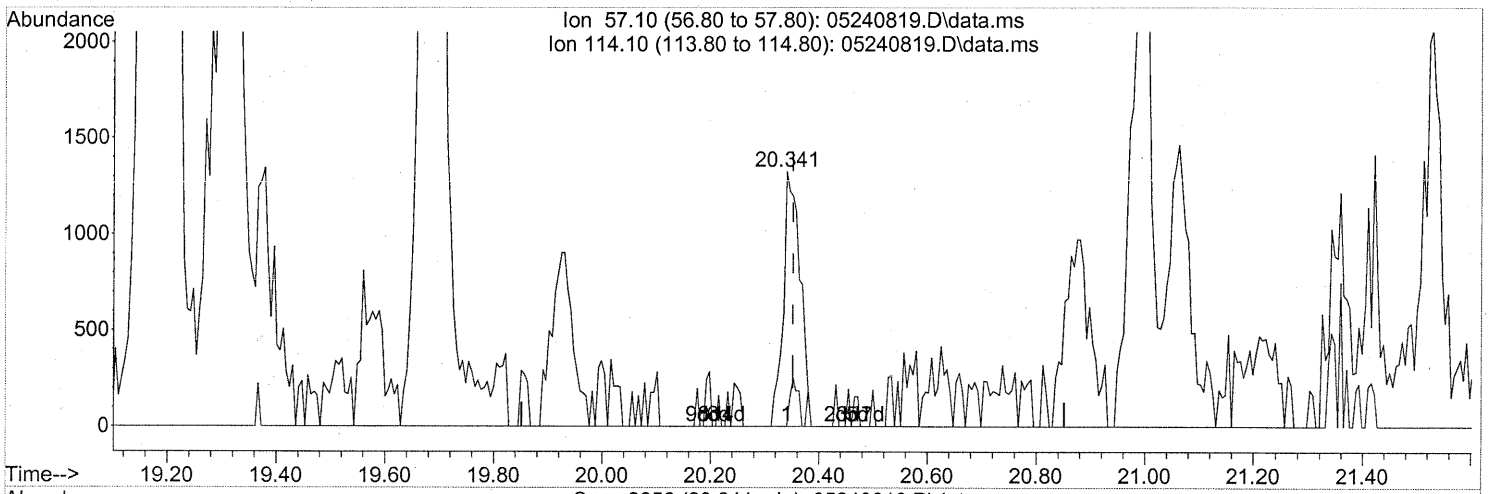
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	29.86#
0.00	0.00	0.00
0.00	0.00	0.00

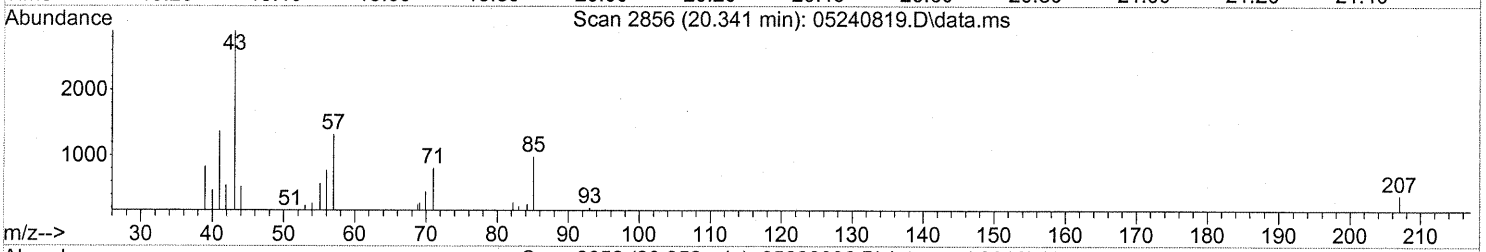
640

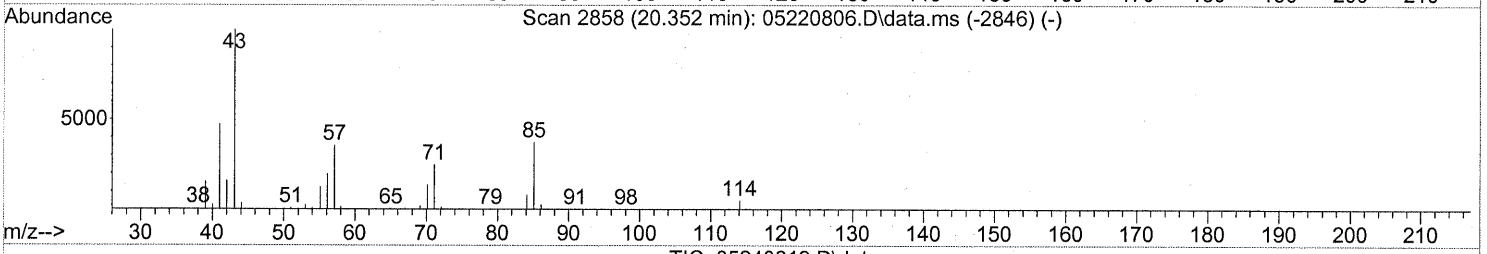
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240819.D\data.ms

(63) n-Octane (T)

20.341min (-0.011) 0.10ng

response 2854

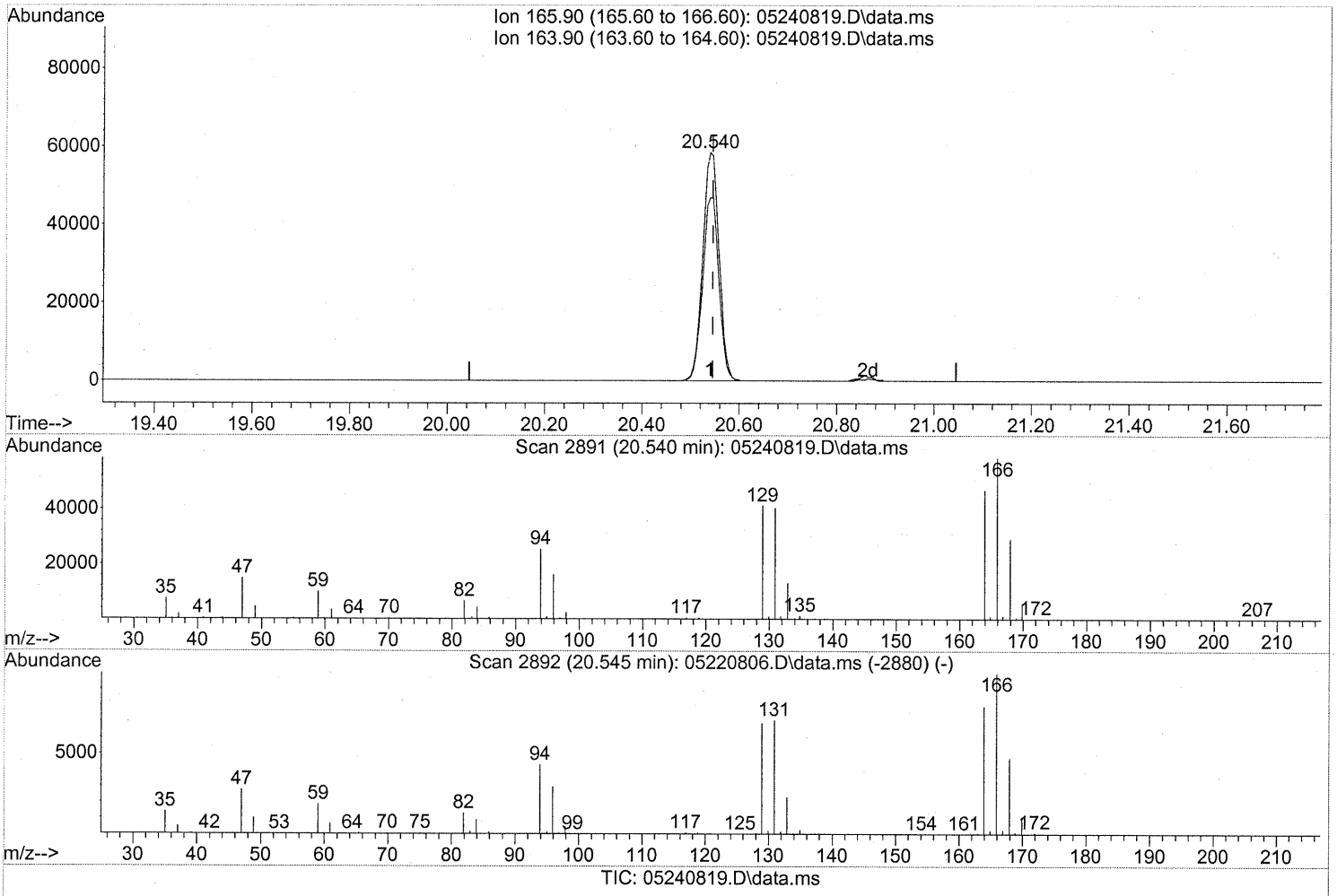
Ion	Exp%	Act%
57.10	100	100
114.10	10.20	9.18
0.00	0.00	0.00
0.00	0.00	0.00

641

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 3.39ng

response 135472

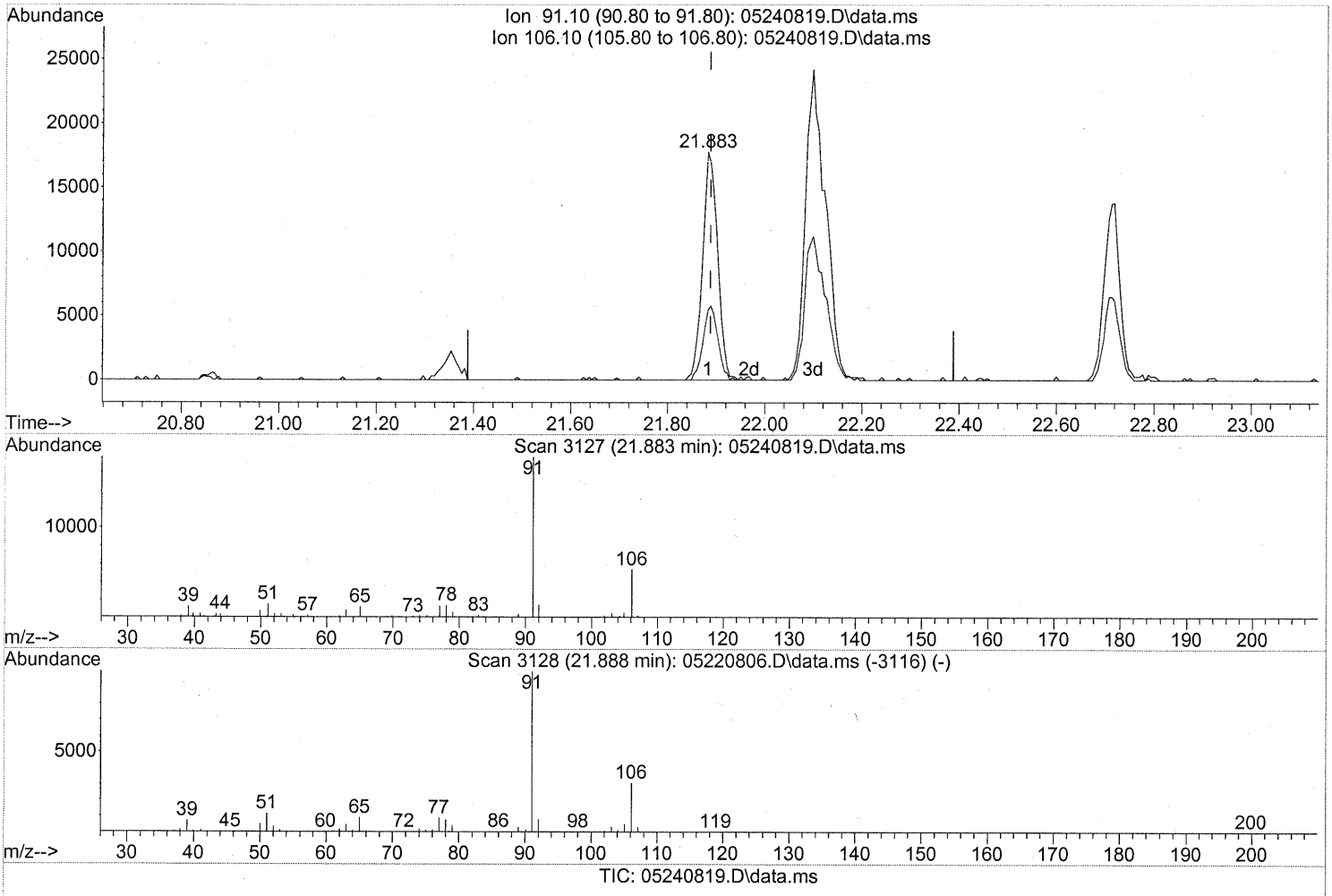
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.95
0.00	0.00	0.00
0.00	0.00	0.00

642

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(66) Ethylbenzene (T)

21.883min (-0.006) 0.25ng

response 38206

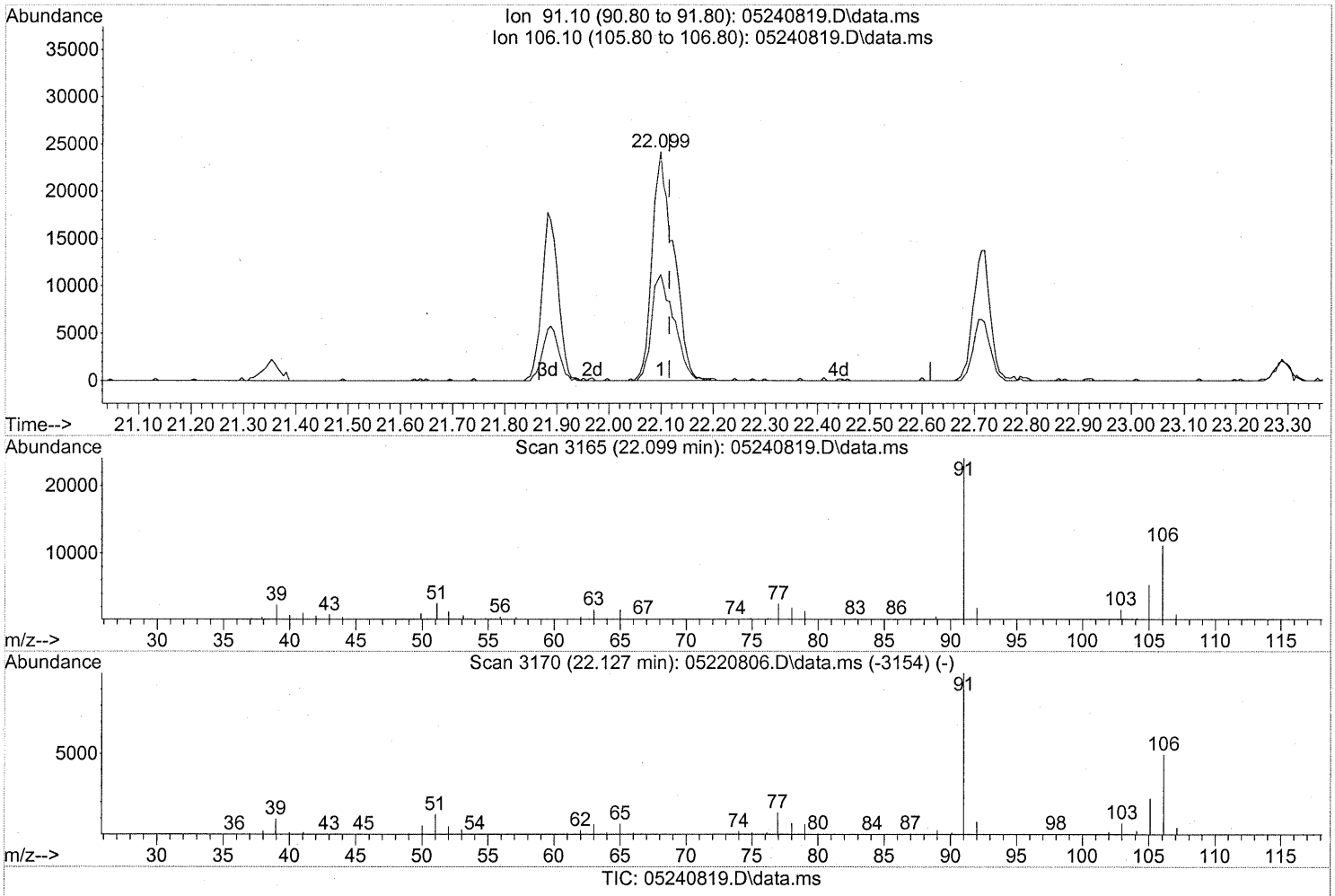
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.89
0.00	0.00	0.00
0.00	0.00	0.00

643

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

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

22.099min (-0.017) 0.67ng

response 69248

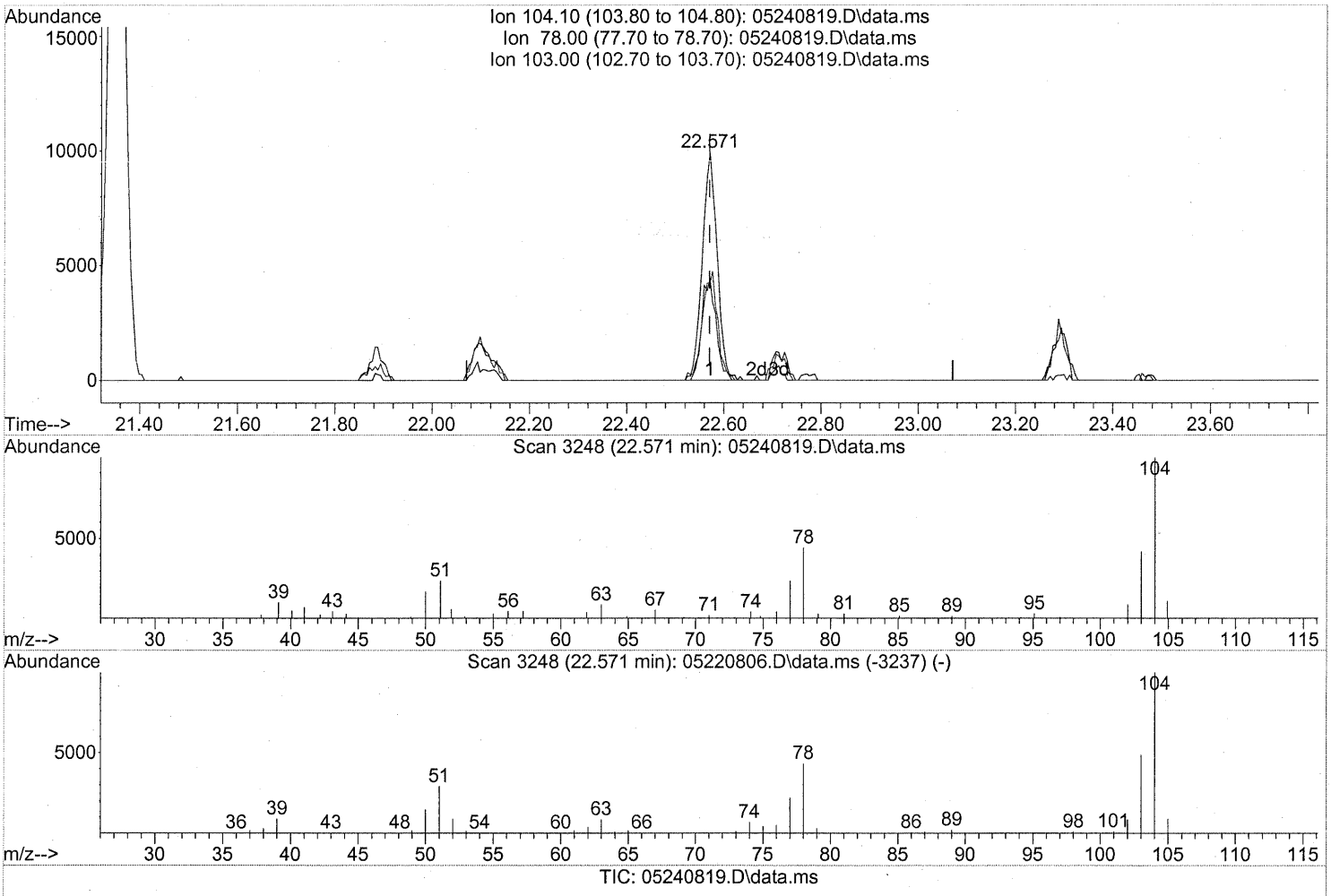
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.39
0.00	0.00	0.00
0.00	0.00	0.00

644

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(69) Styrene (T)

22.571min (+0.000) 0.23ng

response 21013

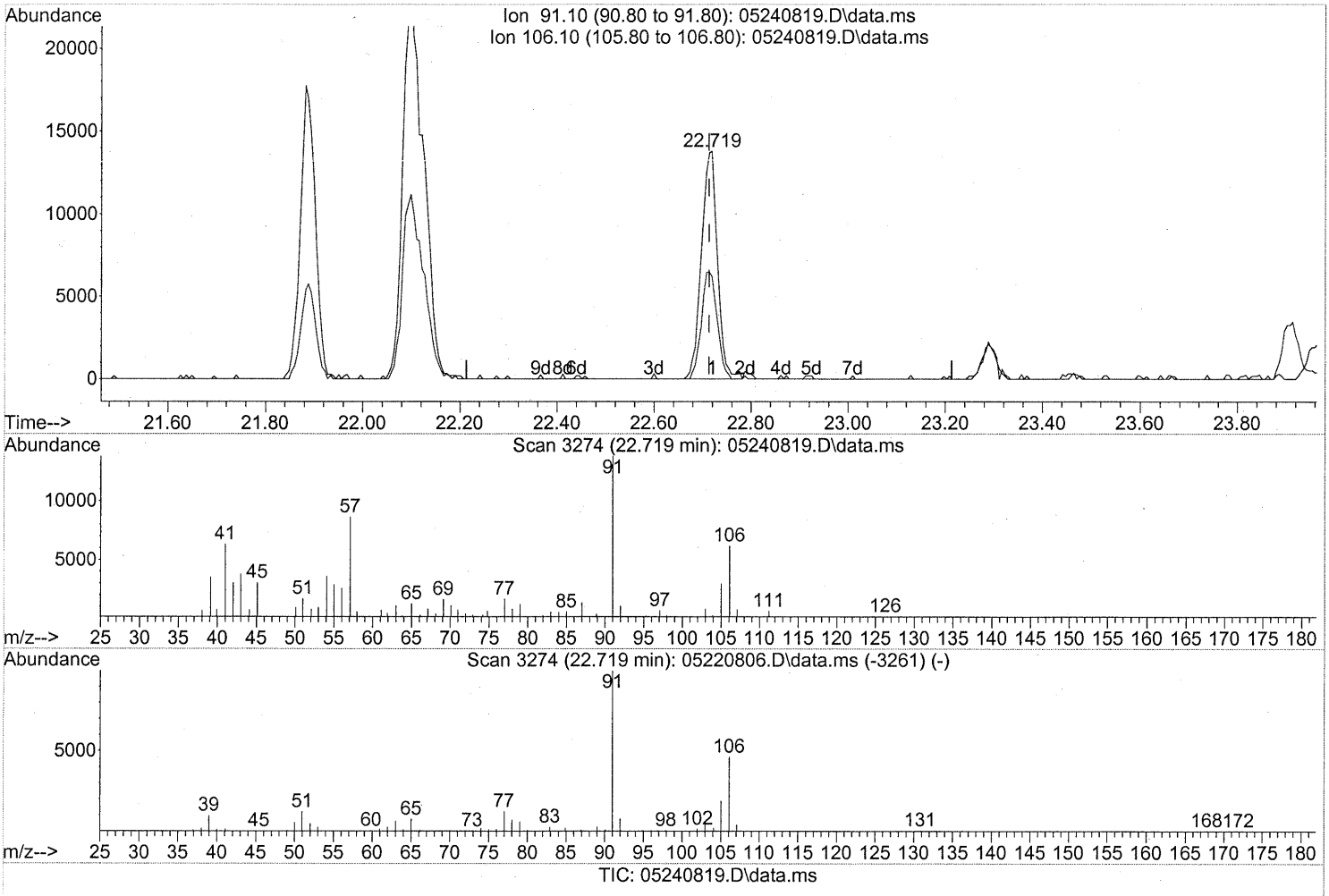
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	43.33
103.00	47.10	48.77
0.00	0.00	0.00

645

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(70) o-Xylene (T)

22.719min (+0.006) 0.28ng

response 31341

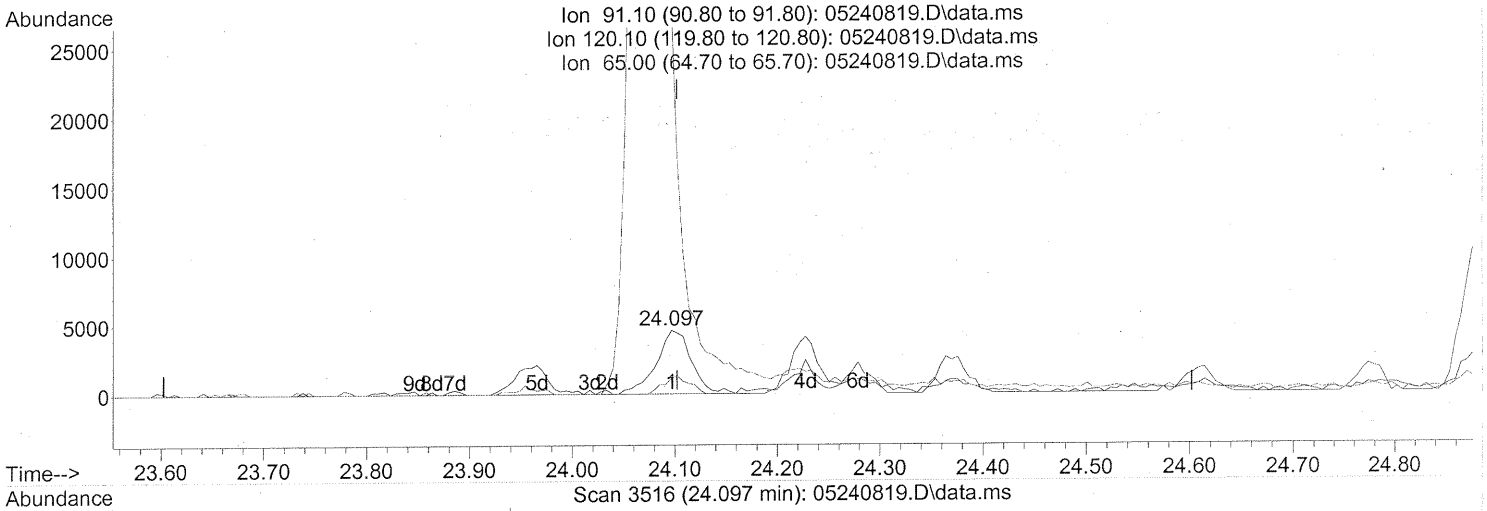
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.07
0.00	0.00	0.00
0.00	0.00	0.00

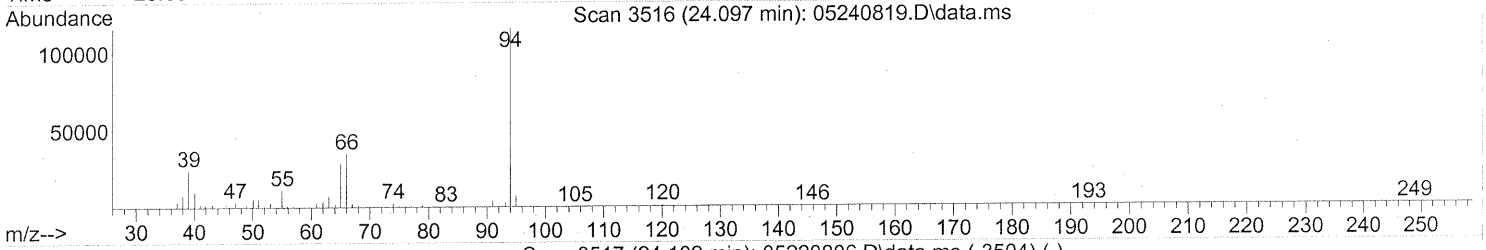
646

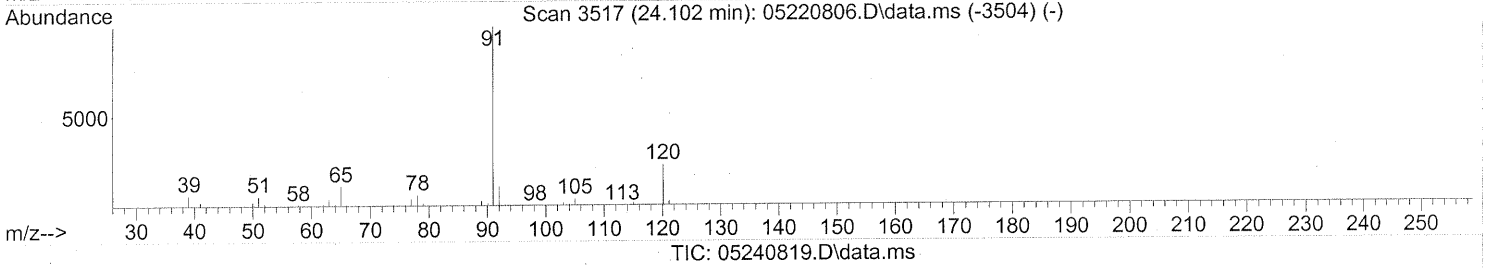
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801422-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 09:05:09 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







(76) n-Propylbenzene (T)

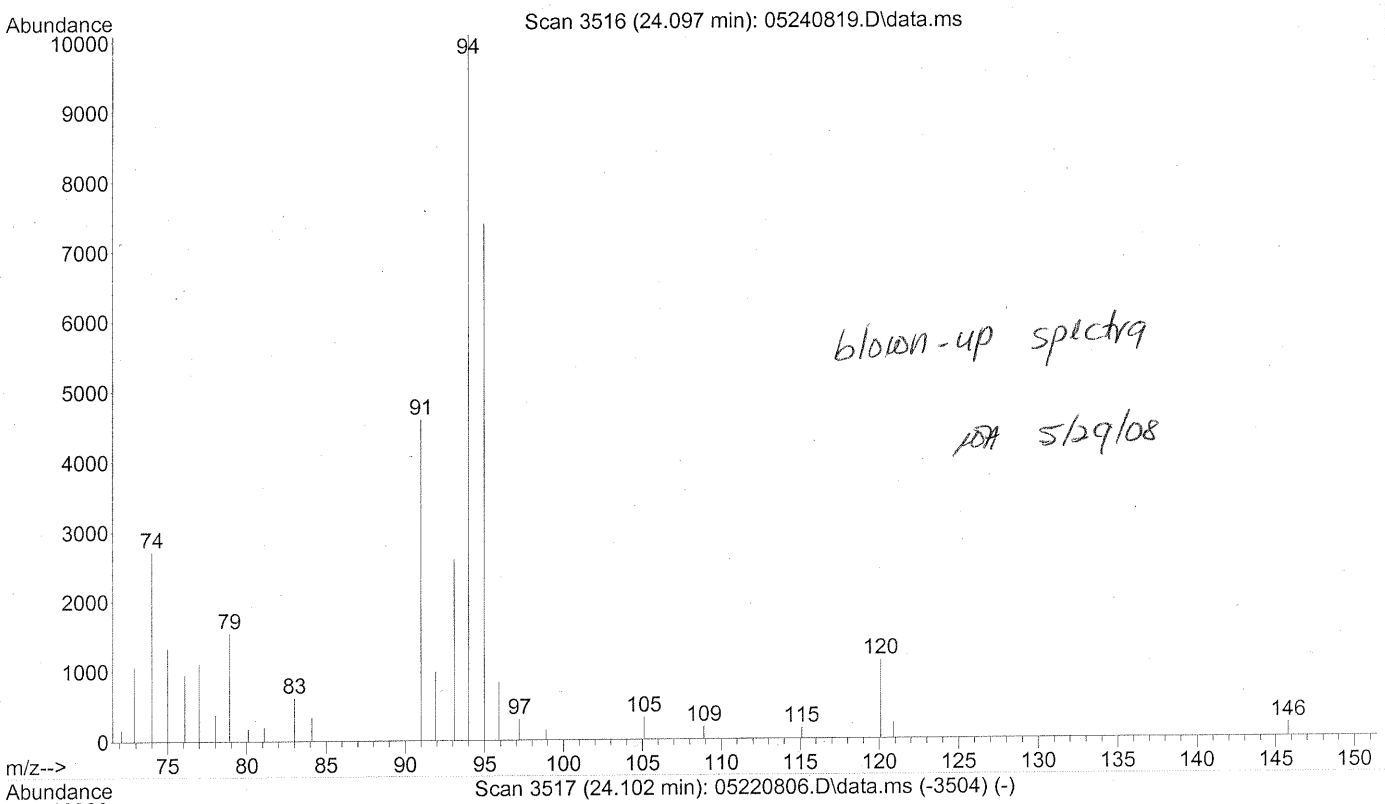
24.097min (-0.006) 0.06ng

response 10939

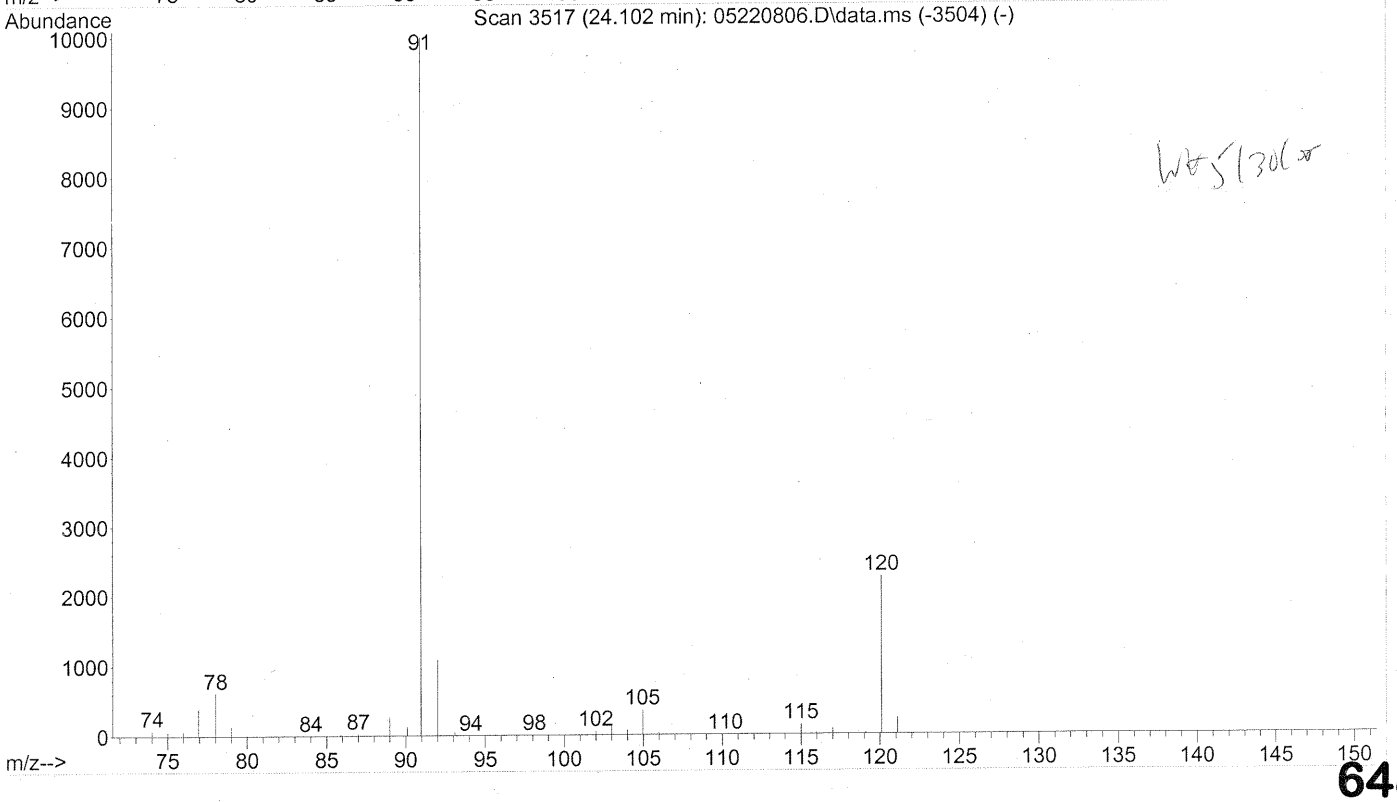
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	20.29
65.00	11.40	0.00
0.00	0.00	0.00

see blown-up spectra

File :J:\MS13\DATA\2008_05\24\05240819.D
Operator : WA
Acquired : 24 May 2008 19:31 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-012 (200ml)
Misc Info : ENSR SG84B-05 (-2.8, 3.5)
Vial Number: 16



blown-up spectra
JDH 5/29/08

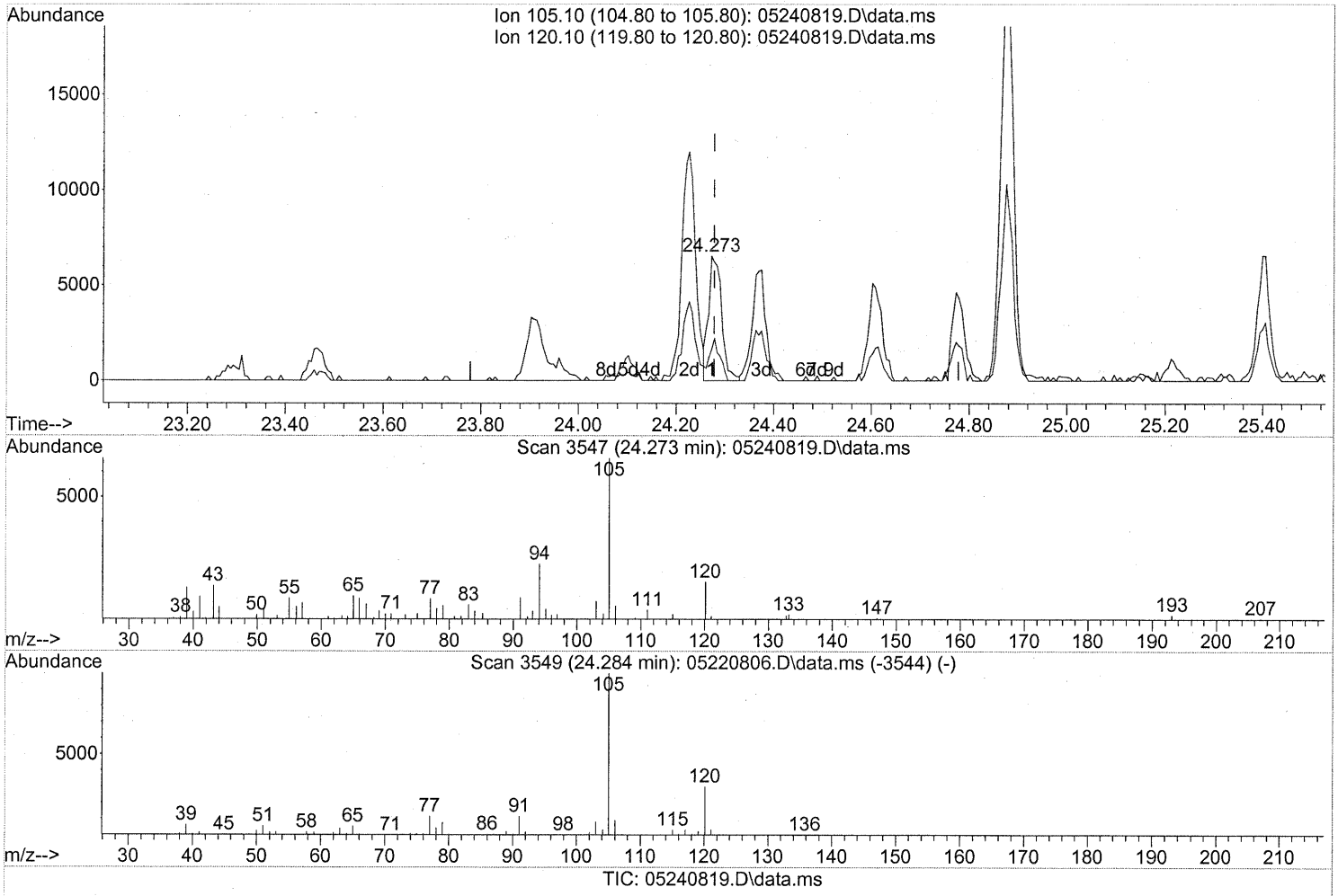


WA 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(78) 4-Ethyltoluene (T)

24.273min (-0.006) 0.08ng

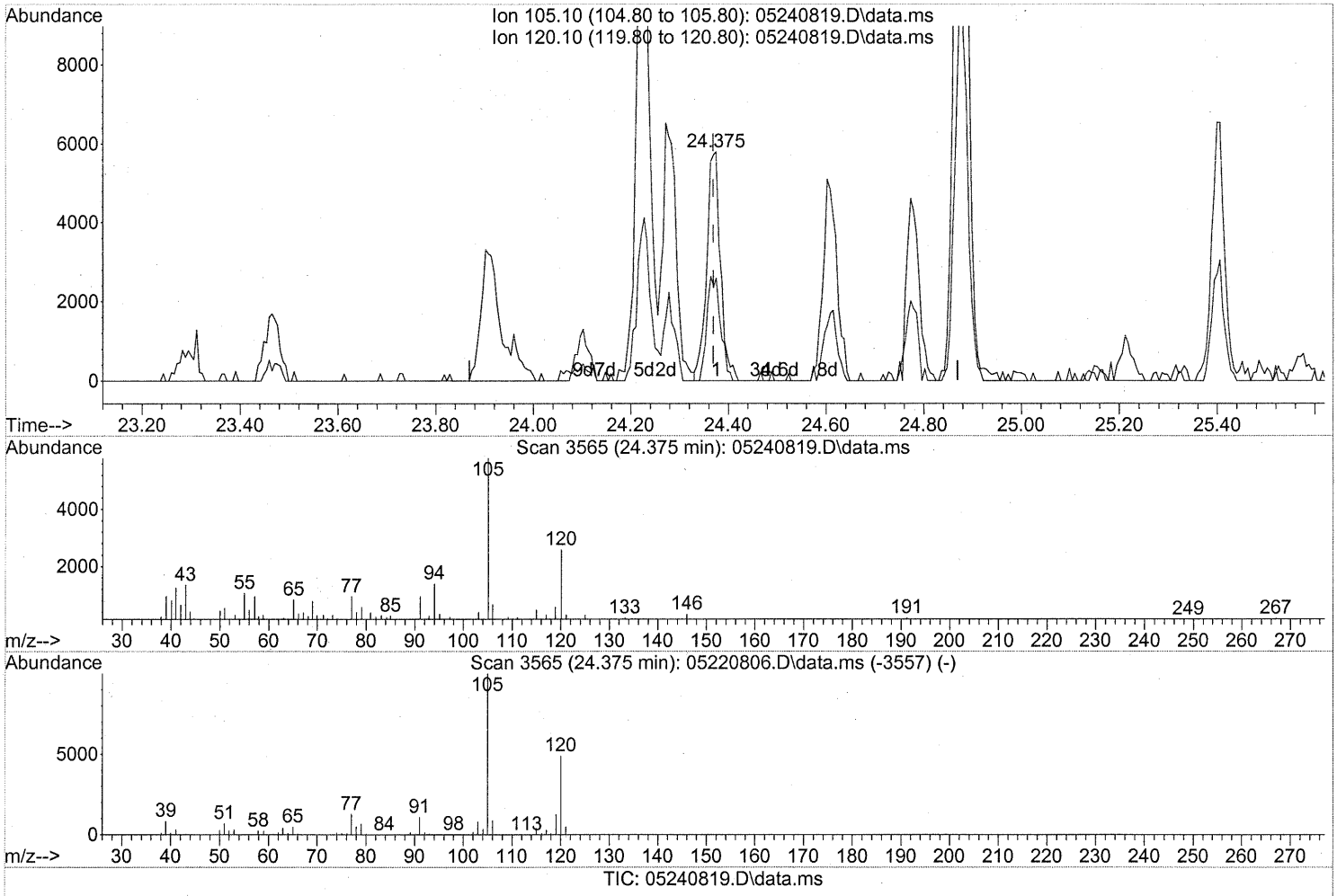
response 12227

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	25.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

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

24.375min (+0.006) 0.09ng

response 11355

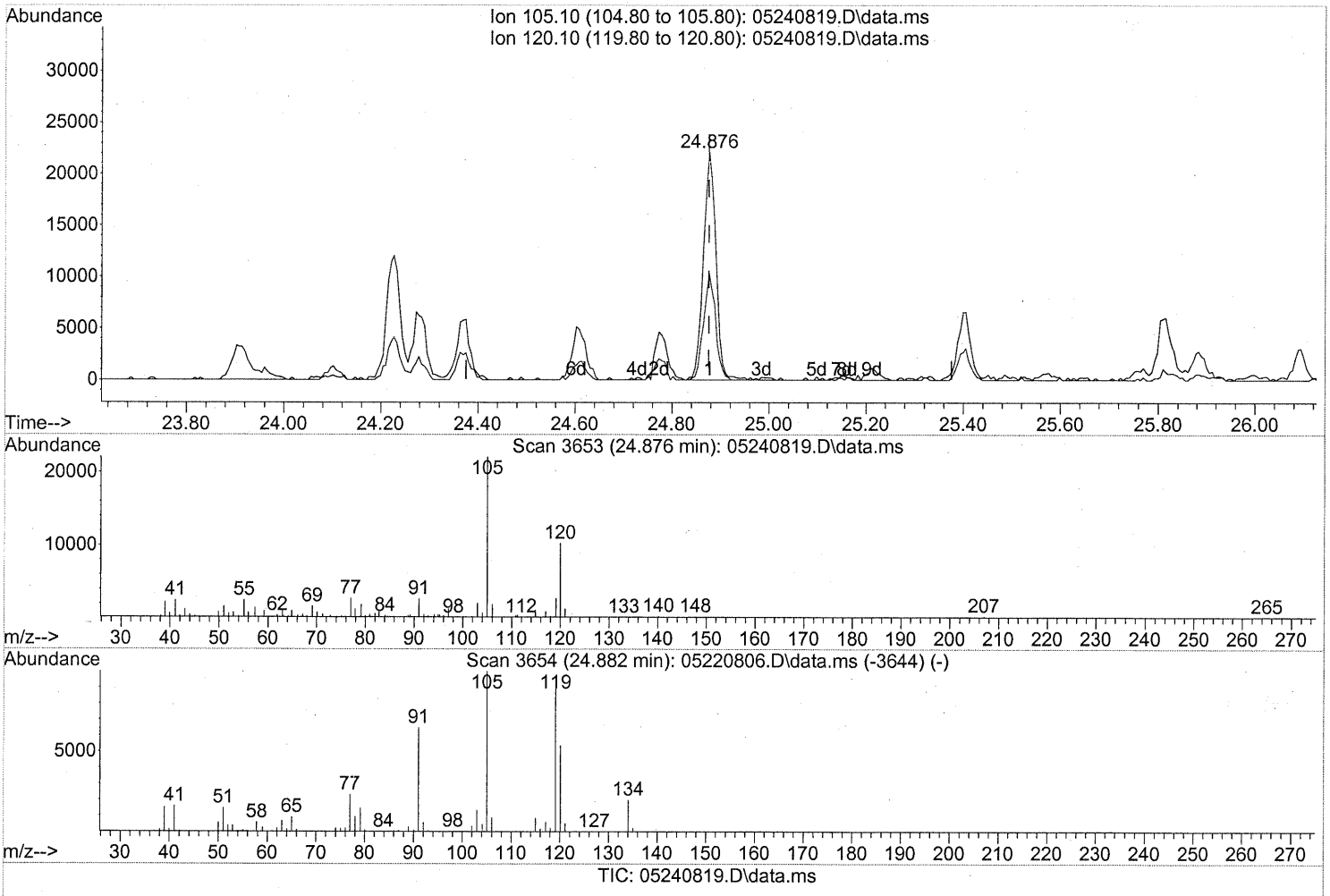
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	45.06
0.00	0.00	0.00
0.00	0.00	0.00

650

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

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

24.876min (+0.000) 0.29ng

response 39622

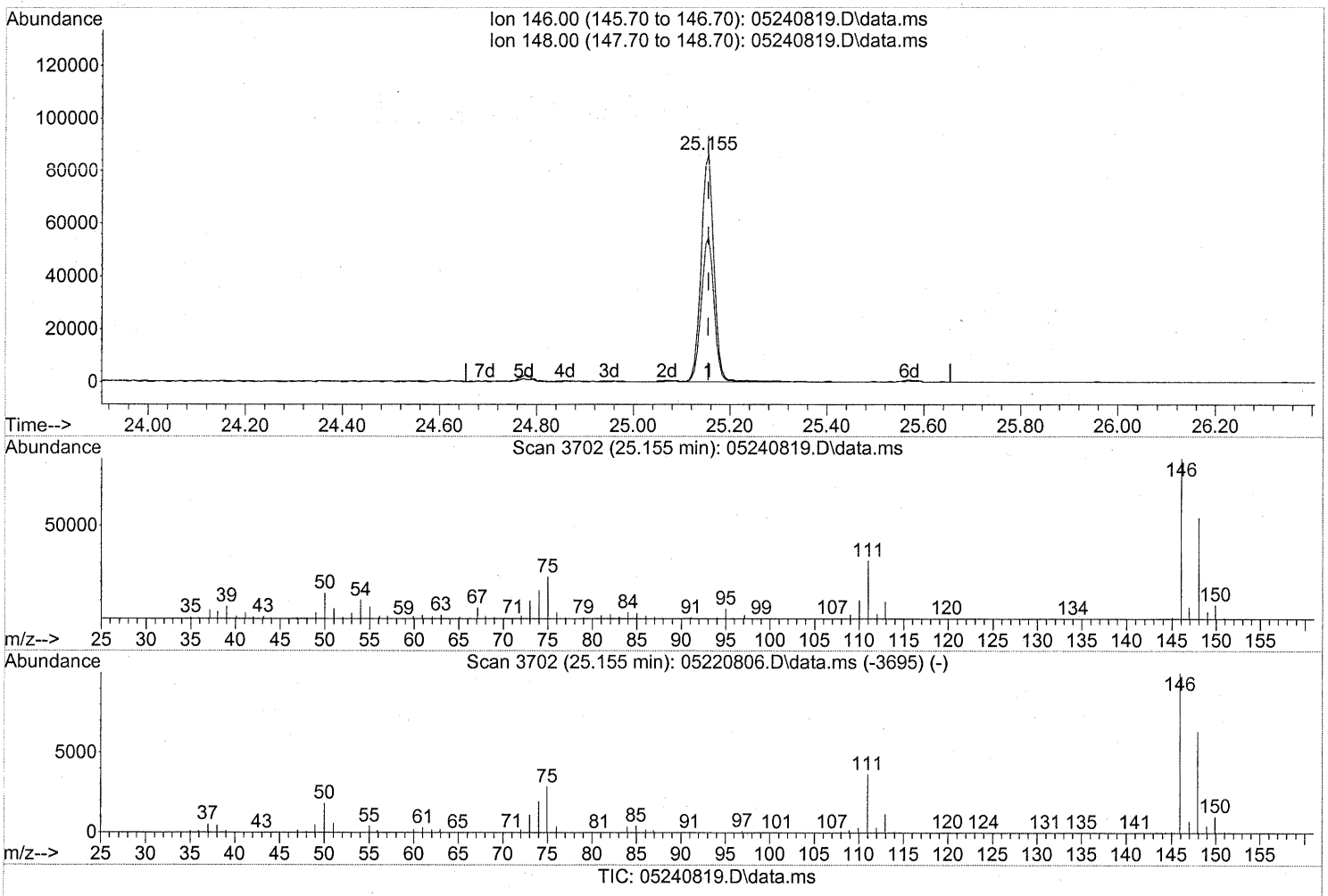
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	44.74
0.00	0.00	0.00
0.00	0.00	0.00

651

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 1.91ng

response 157225

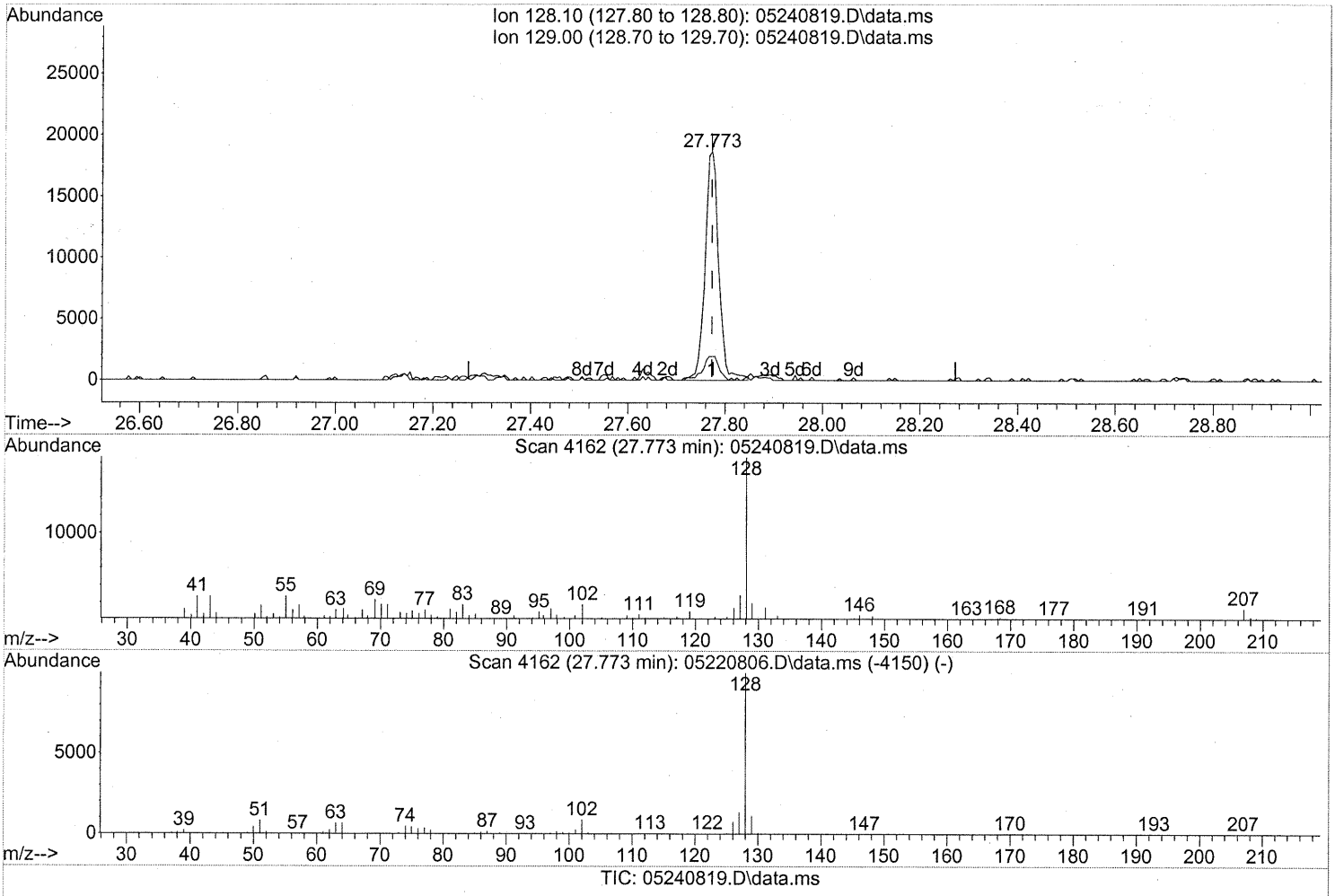
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.23
0.00	0.00	0.00
0.00	0.00	0.00

652

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 18:24:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240819.D\data.ms

(95) Naphthalene (T)

27.773min (+0.000) 0.20ng

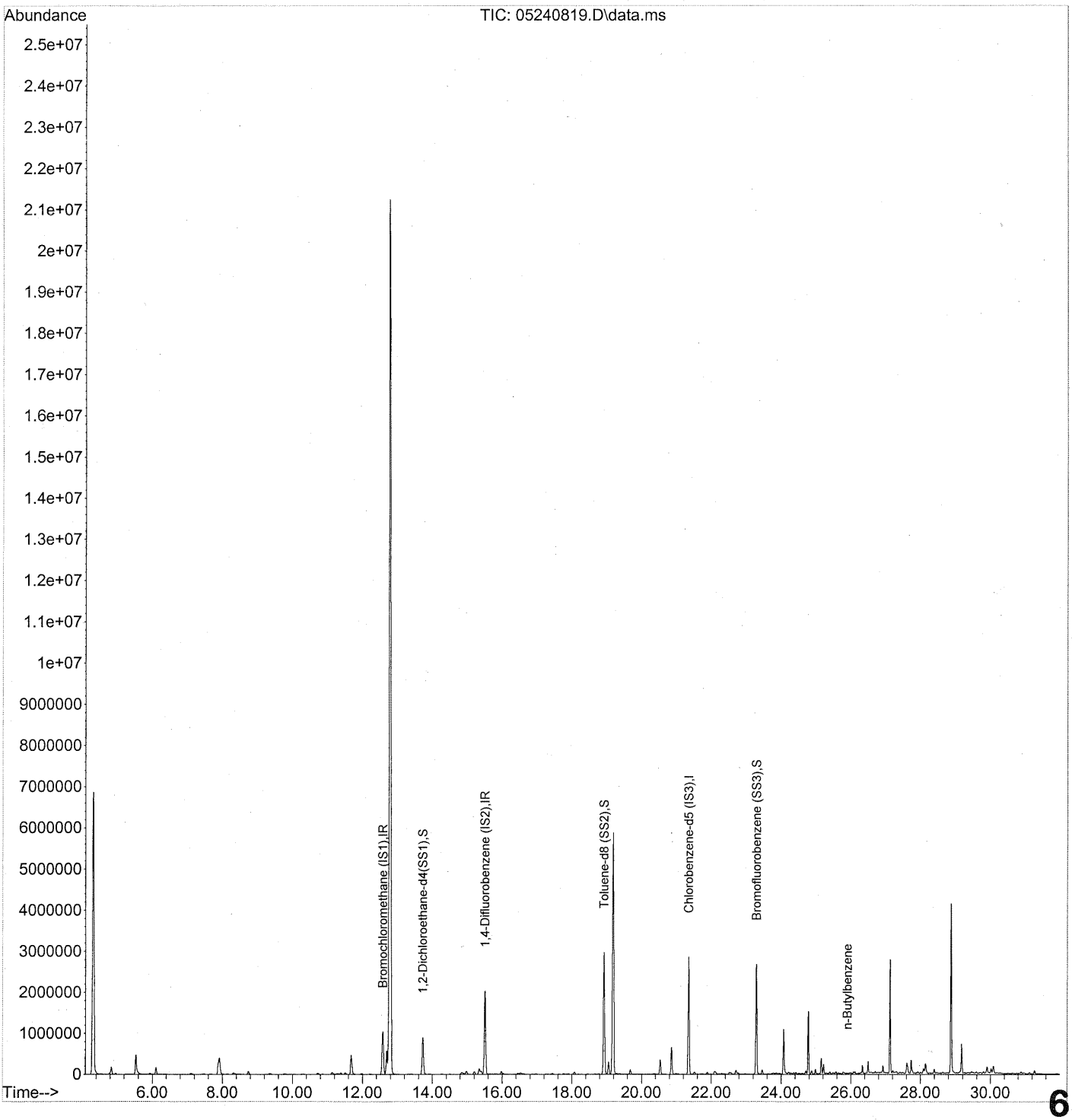
response 36369

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	12.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:37:12 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240819.D
Acq On : 24 May 2008 19:31
Operator : WA
Sample : P0801442-012 (200ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:37:12 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	579106	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2412558	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1107058	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	908212	22.634	ng	-0.02
Spiked Amount 25.000			Recovery =	90.52%		
5) Toluene-d8 (SS2)	18.93	98	2490267	25.047	ng	-0.01
Spiked Amount 25.000			Recovery =	100.20%		
6) Bromofluorobenzene (SS3)	23.29	174	1015644	25.120	ng	0.00
Spiked Amount 25.000			Recovery =	100.48%		
Target Compounds						Qvalue
7) tert-Butylbenzene	25.33	119	2059	N.D.		
8) n-Butylbenzene	25.90	91	6177	~~0.043 ng~~ <MDL		51

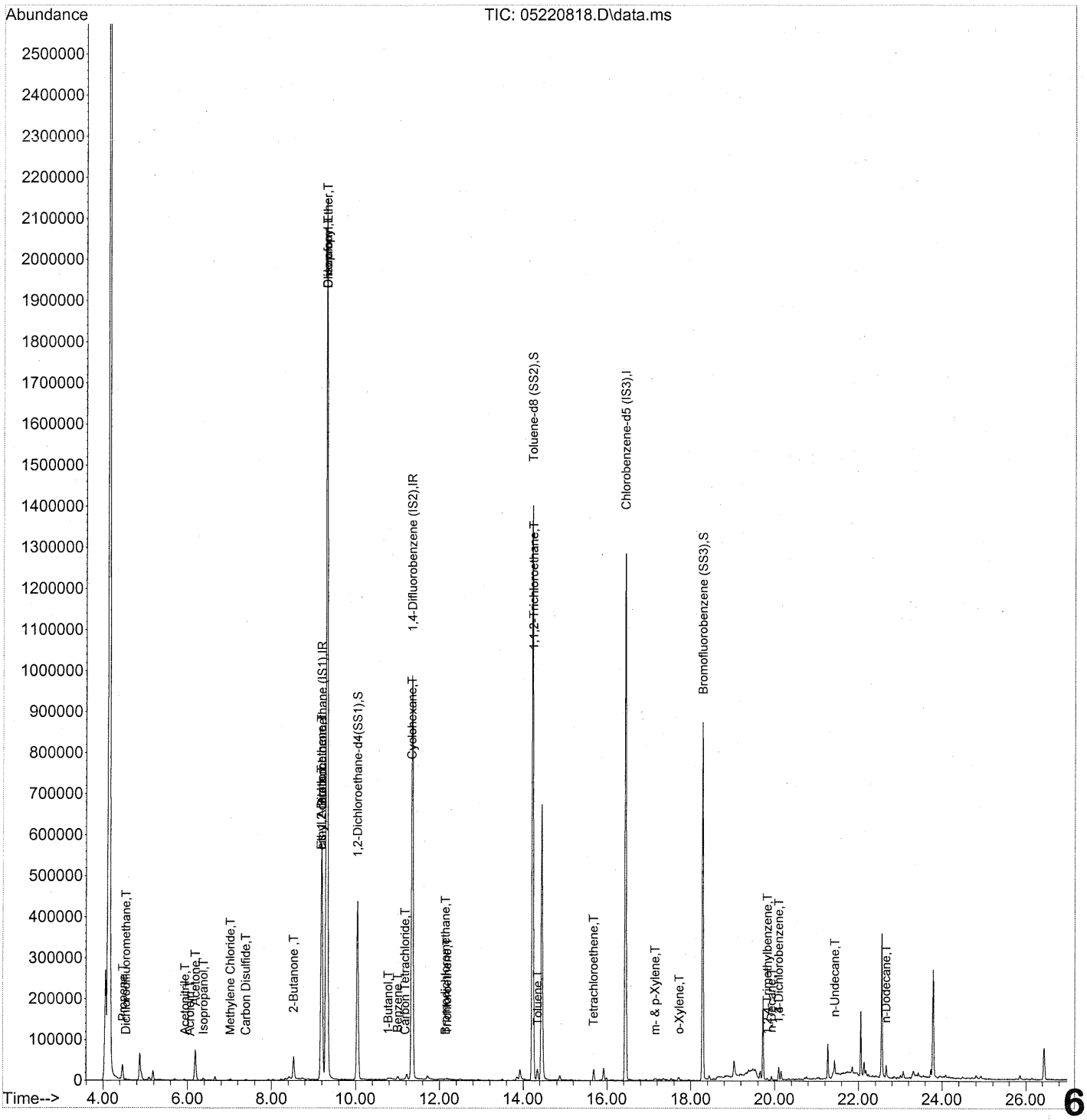
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/29/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220818.D
Acq On : 22 May 2008 19:48
Operator : WA
Sample : P0801442-012 Dil (40ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 06:36:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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



656

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220818.D
Acq On : 22 May 2008 19:48
Operator : WA
Sample : P0801442-012 Dil (40ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 06:36:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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	250673	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1092477	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	424798	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	395182	22.356	ng		-0.05
Spiked Amount 25.000			Recovery =	89.44%			
57) Toluene-d8 (SS2)	14.23	98	1095515	26.192	ng		-0.02
Spiked Amount 25.000			Recovery =	104.76%			
73) Bromofluorobenzene (SS3)	18.29	174	297970	27.373	ng		0.00
Spiked Amount 25.000			Recovery =	109.48%			
Target Compounds							Qvalue
2) Propene	4.47	42	3063	0.122	ng	#	4
3) Dichlorodifluoromethane	4.54	85	1723	0.058	ng	#	81
4) Chloromethane	4.74	50	368	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	5.76	45	112	N.D.			
11) Acetonitrile	5.94	41	3375	0.075	ng	#	52
12) Acrolein	6.06	56	929	0.076	ng	#	72
13) Acetone	6.19	58	24263	1.465	ng	#	70
14) Trichlorofluoromethane	6.33	101	667	N.D.			
15) Isopropanol	6.38	45	9354	0.174	ng		94
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.96	59	913	N.D.			
19) Methylene Chloride	7.02	84	1229	0.094	ng	#	1
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.39	76	4509	0.091	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	12504	1.465	ng	#	1
28) cis-1,2-Dichloroethene	9.18	61	9864	0.417	ng	#	17
29) Diisopropyl Ether	9.32	87	232080	21.370	ng	#	1
30) Ethyl Acetate	9.18	61	9864	1.563	ng		84
31) n-Hexane	9.23	57	1344	N.D.			

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RM 5/26/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220818.D
Acq On : 22 May 2008 19:48
Operator : WA
Sample : P0801442-012 Dil (40ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 06:36:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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	2154771	115.277	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	10299	0.498	ng	#	45
41) Benzene	11.01	78	7432	0.139	ng		88
42) Carbon Tetrachloride	11.17	117	1275	0.080	ng		100
43) Cyclohexane	11.33	84	4673	0.220	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	1099	0.069	ng		84
47) Trichloroethene	12.18	130	1298	0.088	ng		91
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	808	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	90	N.D.			
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	95572	7.353	ng	#	7
58) Toluene	14.35	91	22405	0.437	ng		96
59) 2-Hexanone	14.58	43	1247	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	115	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.69	166	10283	0.812	ng		95
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	2608	N.D.			
67) m- & p-Xylene	17.15	91	4571	0.119	ng		88
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.60	104	1377	N.D.			
70) o-Xylene	17.73	91	2521	0.062	ng		97
71) n-Nonane	17.96	43	2160	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.45	105	111	N.D.			
75) alpha-Pinene	18.93	93	245	N.D.			
76) n-Propylbenzene	19.06	91	760	N.D.			
77) 3-Ethyltoluene	19.18	105	2188	N.D.			
78) 4-Ethyltoluene	19.24	105	1170	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	1077	N.D.			

5/26/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220818.D
Acq On : 22 May 2008 19:48
Operator : WA
Sample : P0801442-012 Dil (40ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 06:36:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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	122	N.D.			
81) 2-Ethyltoluene	19.56	105	1376	N.D.			
82) 1,2,4-Trimethylbenzene	19.83	105	3779	0.074	ng		82
83) n-Decane	19.92	57	5436	0.134	ng	#	67
84) Benzyl Chloride	20.16	91	100	N.D.			
85) 1,3-Dichlorobenzene	20.10	146	13471	0.453	ng		96
86) 1,4-Dichlorobenzene	20.10	146	13471	0.475	ng		95
87) sec-Butylbenzene	20.16	105	423	N.D.			
88) p-Isopropyltoluene	20.34	119	1047	N.D.			
89) 1,2,3-Trimethylbenzene	20.35	105	994	N.D.			
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.			
91) d-Limonene	20.51	68	745	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.44	57	11563	0.271	ng		87
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.69	128	3533	N.D.			
96) n-Dodecane	22.66	57	11406	0.274	ng		81
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.			

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

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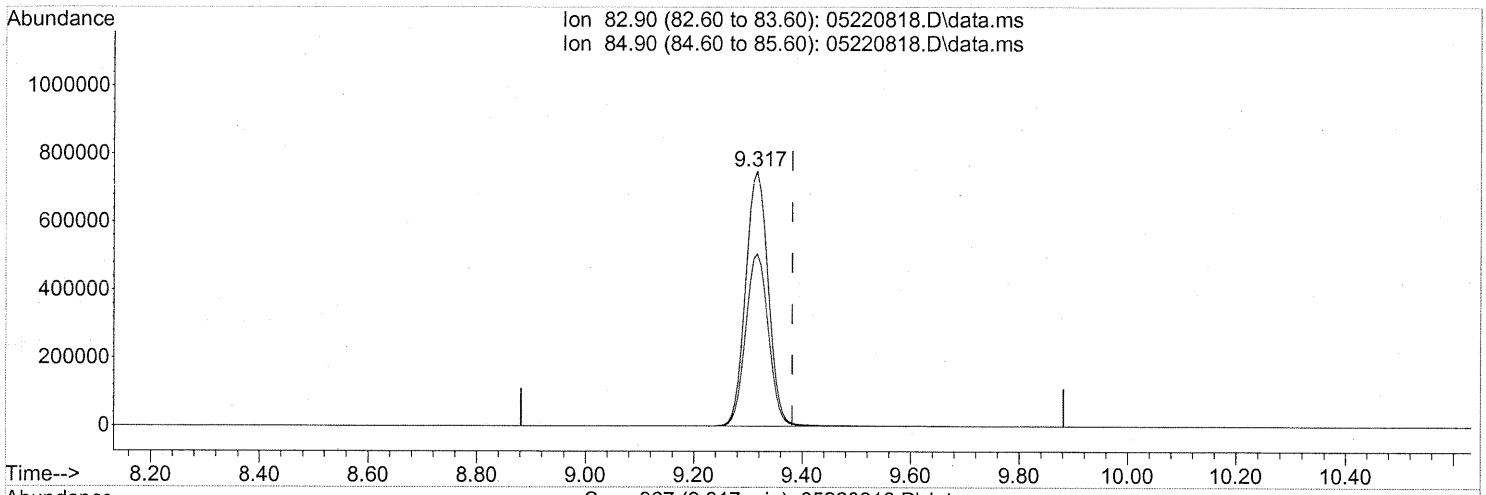
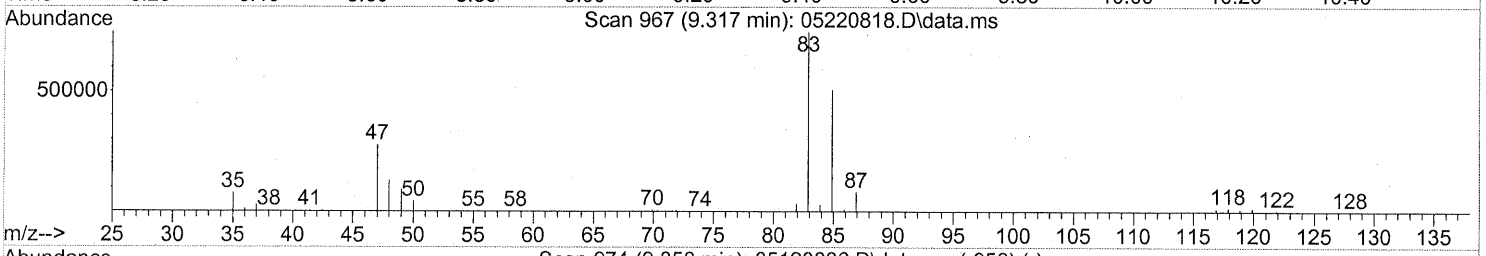
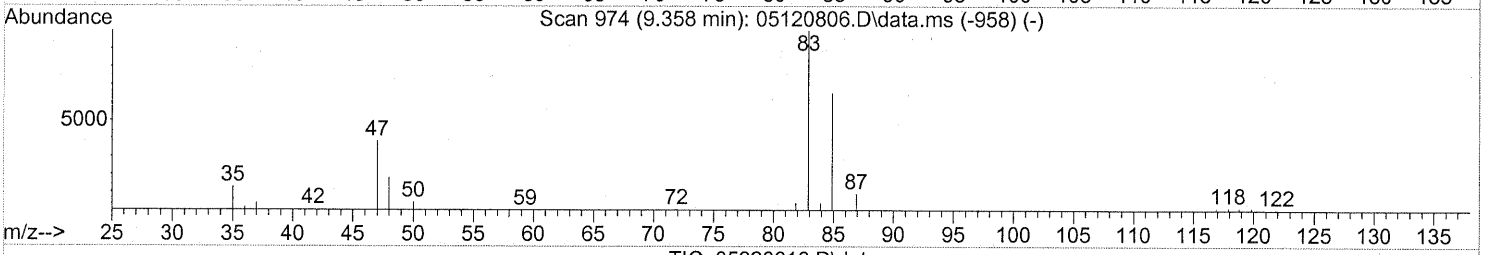
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220818.D
Acq On : 22 May 2008 19:48
Operator : WA
Sample : P0801442-012 Dil (40ml)
Misc : ENSR SG84B-05 (-2.8, 3.5)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 06:36:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220818.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 115.28ng

response 2154771

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.88
0.00	0.00	0.00
0.00	0.00	0.00

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00280

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 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)**	**2.2**	0.78	0.078	**0.44**	0.16	0.016	
74-87-3	**Chloromethane**	**0.42**	0.16	0.078	**0.20**	0.076	0.038	
76-14-2	**1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)**	**0.098**	0.78	0.078	**0.014**	0.11	0.011	**J**
75-01-4	Vinyl Chloride	ND	0.16	0.078	ND	0.061	0.031	
74-83-9	**Bromomethane**	**0.59**	0.16	0.078	**0.15**	0.040	0.020	
75-00-3	**Chloroethane**	**0.30**	0.16	0.078	**0.11**	0.059	0.030	
64-17-5	**Ethanol**	**2.8**	7.8	0.078	**1.5**	4.1	0.041	**J**
67-64-1	**Acetone**	**12**	7.8	0.11	**4.9**	3.3	0.048	**B**
75-69-4	**Trichlorofluoromethane**	**1.8**	0.16	0.078	**0.33**	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.78	0.11	ND	0.36	0.050	
75-35-4	**1,1-Dichloroethene**	**0.38**	0.16	0.078	**0.096**	0.039	0.020	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.60**	0.78	0.12	**0.20**	0.26	0.038	**J**
75-09-2	**Methylene Chloride**	**0.10**	0.78	0.078	**0.030**	0.22	0.022	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.078	ND	0.050	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.16	0.087	**0.072**	0.020	0.011	
75-15-0	**Carbon Disulfide**	**47**	0.78	0.19	**15**	0.25	0.060	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
75-34-3	**1,1-Dichloroethane**	**0.081**	0.16	0.078	**0.020**	0.039	0.019	**J**
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.078	ND	0.043	0.022	
108-05-4	**Vinyl Acetate**	**3.1**	7.8	0.25	**0.88**	2.2	0.071	**J**
78-93-3	**2-Butanone (MEK)**	**4.2**	0.78	0.078	**1.4**	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.078	ND	0.039	0.020	
108-20-3	Diisopropyl Ether	ND	0.78	0.092	ND	0.19	0.022	
67-66-3	**Chloroform**	**71**	0.16	0.092	**15**	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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00280

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 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	0.78	0.080	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	ND	0.16	0.078	ND	0.039	0.019	
71-55-6	**1,1,1-Trichloroethane**	**7.2**	0.16	0.078	**1.3**	0.029	0.014	
71-43-2	**Benzene**	**4.6**	0.16	0.078	**1.4**	0.049	0.024	
56-23-5	**Carbon Tetrachloride**	**3.8**	0.16	0.078	**0.60**	0.025	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.78	0.078	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.078	ND	0.034	0.017	
75-27-4	**Bromodichloromethane**	**0.96**	0.16	0.078	**0.14**	0.023	0.012	**M**
79-01-6	**Trichloroethene**	**0.63**	0.16	0.078	**0.12**	0.029	0.015	
123-91-1	**1,4-Dioxane**	**0.57**	0.78	0.095	**0.16**	0.22	0.026	**J**
80-62-6	Methyl Methacrylate	ND	0.78	0.12	ND	0.19	0.029	
142-82-5	**n-Heptane**	**1.4**	0.78	0.10	**0.34**	0.19	0.024	
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	0.081	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**1.5**	0.78	0.087	**0.37**	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	0.098	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.078	ND	0.029	0.014	
108-88-3	**Toluene**	**1.4**	0.78	0.078	**0.38**	0.21	0.021	
591-78-6	**2-Hexanone**	**0.74**	0.78	0.12	**0.18**	0.19	0.029	**J**
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.16	0.084	ND	0.020	0.011	
111-65-9	**n-Octane**	**0.34**	0.78	0.078	**0.073**	0.17	0.017	**J**
127-18-4	**Tetrachloroethene**	**49**	0.16	0.078	**7.3**	0.023	0.012	
108-90-7	**Chlorobenzene**	**0.14**	0.16	0.080	**0.031**	0.034	0.017	**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.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG85B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00280

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 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**	**0.80**	0.78	0.097	**0.18**	0.18	0.022	
179601-23-1	**m,p-Xylenes**	**4.5**	0.78	0.20	**1.0**	0.18	0.047	
75-25-2	Bromoform	ND	0.78	0.12	ND	0.075	0.011	
100-42-5	**Styrene**	**0.18**	0.78	0.12	**0.043**	0.18	0.028	**J**
95-47-6	**o-Xylene**	**1.2**	0.78	0.098	**0.27**	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	**Cumene**	**0.25**	0.78	0.087	**0.050**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.37**	0.78	0.081	**0.075**	0.16	0.017	**J**
622-96-8	**4-Ethyltoluene**	**0.49**	0.78	0.089	**0.10**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.82**	0.78	0.094	**0.17**	0.16	0.019	
98-83-9	alpha-Methylstyrene	ND	0.78	0.11	ND	0.16	0.024	
95-63-6	**1,2,4-Trimethylbenzene**	**2.6**	0.78	0.11	**0.53**	0.16	0.022	
100-44-7	**Benzyl Chloride**	**0.17**	0.16	0.13	**0.033**	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.097	ND	0.026	0.016	
106-46-7	**1,4-Dichlorobenzene**	**2.7**	0.16	0.087	**0.44**	0.026	0.015	
135-98-8	**sec-Butylbenzene**	**0.11**	0.78	0.090	**0.021**	0.14	0.016	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.46**	0.78	0.10	**0.084**	0.14	0.018	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.78	0.12	ND	0.081	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	**Naphthalene**	**2.5**	0.31	0.12	**0.47**	0.060	0.022	
87-68-3	**Hexachlorobutadiene**	**0.50**	0.16	0.14	**0.047**	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.078	ND	0.057	0.014	
104-51-8	**n-Butylbenzene**	**0.66**	0.31	0.078	**0.12**	0.057	0.014	

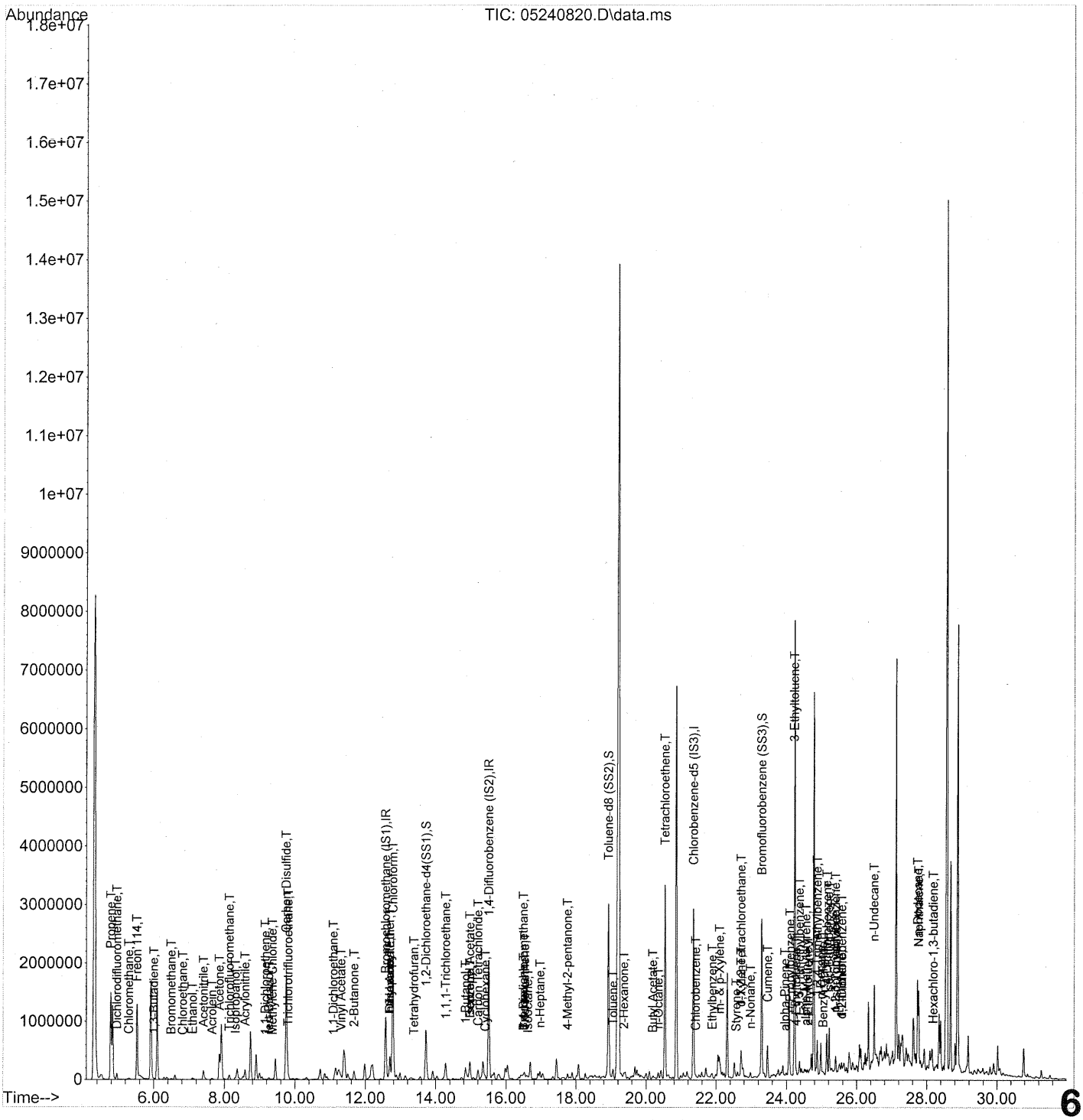
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: RG Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	561245	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2384740	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1127495	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	887049	22.810	ng		0.00
Spiked Amount 25.000			Recovery =	91.24%			✓
57) Toluene-d8 (SS2)	18.93	98	2481133	24.503	ng		0.00
Spiked Amount 25.000			Recovery =	98.00%			✓
73) Bromofluorobenzene (SS3)	23.29	174	1049844	25.496	ng		0.00
Spiked Amount 25.000			Recovery =	102.00%			✓
Target Compounds							Qvalue
2) Propene	4.79	42	811541	18.308	ng		91
3) Dichlorodifluoromethane	4.96	85	112799	1.381	ng		99
4) Chloromethane	5.30	50	14235	0.269	ng		99
5) Freon 114	5.52	135	2552	0.063	ng		97
6) Vinyl Chloride	5.74	62	1801	N.D. ✓			
7) 1,3-Butadiene	6.00	54	8481	0.215	ng	#	48
8) Bromomethane	6.49	94	11080	0.376	ng		96
9) Chloroethane	6.82	64	4885	0.194	ng		100
10) Ethanol	7.10	45	53107m	1.800	ng		
11) Acetonitrile	7.41	41	69601	0.816	ng	#	26
12) Acrolein	7.65	56	23596	1.119	ng		78
13) Acetone	7.86	58	227084m	7.516	ng		
14) Trichlorofluoromethane	8.14	101	82894	1.183	ng		99
15) Isopropanol	8.32	45	72105	0.748	ng		97
16) Acrylonitrile	8.59	53	18839	0.410 ng	NR	#	23
17) 1,1-Dichloroethene	9.16	96	7527	0.244	ng	#	70
18) tert-Butanol	9.27	59	31560m	0.385	ng		
19) Methylene Chloride	9.36	84	2247	0.067	ng		95
20) Allyl Chloride	9.55	41	1878	N.D. ✓			
21) Trichlorotrifluoroethane	9.81	151	11278	0.354	ng		96
22) Carbon Disulfide	9.76	76	3894857	30.397	ng		99
23) trans-1,2-Dichloroethene	10.82	61	125	N.D. ✓			
24) 1,1-Dichloroethane	11.09	63	3072	0.052	ng		94
25) Methyl tert-Butyl Ether	11.16	73	1152	N.D. ✓			
26) Vinyl Acetate	11.31	86	11071	1.983	ng	#	1
27) 2-Butanone	11.68	72	59821	2.713	ng	#	82
28) cis-1,2-Dichloroethene	12.22	61	481	N.D. ✓			
29) Diisopropyl Ether	12.70	87	2342	0.087 ng	NR	#	1
30) Ethyl Acetate	12.69	61	6431	0.540	ng	#	29
31) n-Hexane	12.70	57	232099	3.864	ng		89

5/29/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	2341829	45.758 ng		100
34) Tetrahydrofuran	13.39	72	4499	0.213 ng	#	76
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.88	62	78	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	249808	4.600 ng		96
39) Isopropyl Acetate	14.98	61	2803	0.138 ng	#	1
40) 1-Butanol	14.85	56	186804	5.699 ng		91
41) Benzene	14.98	78	366227	2.933 ng		99
42) Carbon Tetrachloride	15.21	117	116242	2.417 ng		99
43) Cyclohexane	15.41	84	29833	0.614 ng	#	1
44) tert-Amyl Methyl Ether	15.84	73	476	N.D. ✓		
45) 1,2-Dichloropropane	16.21	63	576	N.D. ✓		
46) Bromodichloromethane	16.50	83	25862	0.613 ng M	#	18
47) Trichloroethene	16.54	130	15488	0.404 ng		99
48) 1,4-Dioxane	16.50	88	8660	0.368 ng		89
49) Isooctane	16.63	57	44324	0.310 ng	#	55
50) Methyl Methacrylate	16.79	100	161	N.D. ✓		
51) n-Heptane	16.98	71	29549	0.891 ng	#	78
52) cis-1,3-Dichloropropene	17.84	75	59	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	31987	0.965 ng		93
54) trans-1,3-Dichloropropene	18.42	75	55	N.D. ✓		
55) 1,1,2-Trichloroethane	18.68	97	685	N.D. ✓		
58) Toluene	19.06	91	127566	0.927 ng		97
59) 2-Hexanone	19.37	43	44997	0.474 ng	#	66
60) Dibromochloromethane	19.61	129	692	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	7360	0.076 ng	#	1
63) n-Octane	20.35	57	6651	0.218 ng		92
64) Tetrachloroethene	20.55	166	1284198	31.530 ng		99
65) Chlorobenzene	21.42	112	8357	0.091 ng		92
66) Ethylbenzene	21.89	91	80461	0.510 ng		94
67) m- & p-Xylene	22.10	91	303031	2.870 ng		90
68) Bromoform	22.21	173	876	N.D. ✓		
69) Styrene	22.57	104	11018	0.117 ng		83
70) o-Xylene	22.71	91	86090	0.755 ng		97
71) n-Nonane	22.98	43	80755	0.998 ng	#	38
72) 1,1,2,2-Tetrachloroethane	22.71	83	3037	~~0.064 ng~~ NR	#	1
74) Cumene	23.46	105	24064	0.159 ng		100
75) alpha-Pinene	23.95	93	13813	0.176 ng	#	46
76) n-Propylbenzene	24.10	91	45333	0.235 ng	#	85
77) 3-Ethyltoluene	24.22	105	109675	0.679 ng		100
78) 4-Ethyltoluene	24.28	105	47377	0.315 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	71703	0.527 ng		97

666

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

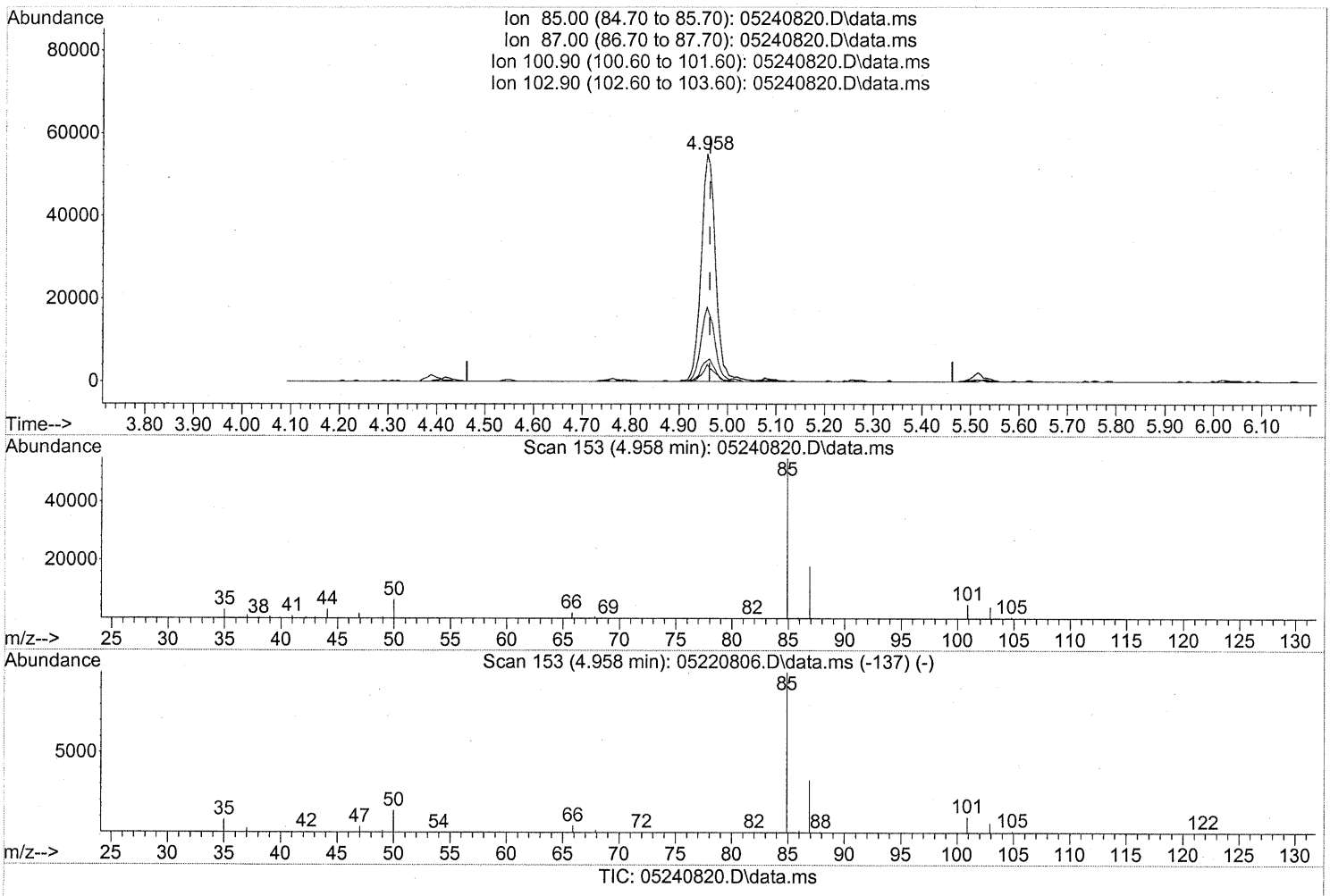
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	3785	0.051 ng	#	78
81) 2-Ethyltoluene	24.61	105	63149	0.386 ng		99
82) 1,2,4-Trimethylbenzene	24.88	105	229884	1.660 ng		85
83) n-Decane	24.98	57	289534	3.799 ng		81
84) Benzyl Chloride	25.04	91	10273	0.111 ng		78
85) 1,3-Dichlorobenzene	25.07	146	3826	N.D. ✓		
86) 1,4-Dichlorobenzene	25.16	146	143693	1.712 ng		98
87) sec-Butylbenzene	25.21	105	12975	0.073 ng		80
88) p-Isopropyltoluene	25.40	119	43158	0.296 ng		76
89) 1,2,3-Trimethylbenzene	25.40	105	111088	0.820 ng		89
90) 1,2-Dichlorobenzene	25.58	146	5287	0.064 ng		99
91) d-Limonene	25.58	68	49164	0.891 ng		94
92) 1,2-Dibromo-3-Chloropr...	26.25	157	540	N.D. ✓		
93) n-Undecane	26.50	57	578513	7.253 ng		76
94) 1,2,4-Trichlorobenzene	27.62	180	2856	N.D. ✓		
95) Naphthalene	27.77	128	288104	1.577 ng		87
96) n-Dodecane	27.74	57	483808	6.099 ng		80
97) Hexachloro-1,3-butadiene	28.19	225	12796	0.320 ng		95

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(3) Dichlorodifluoromethane (T)

4.958min (-0.006) 1.38ng

response 112799

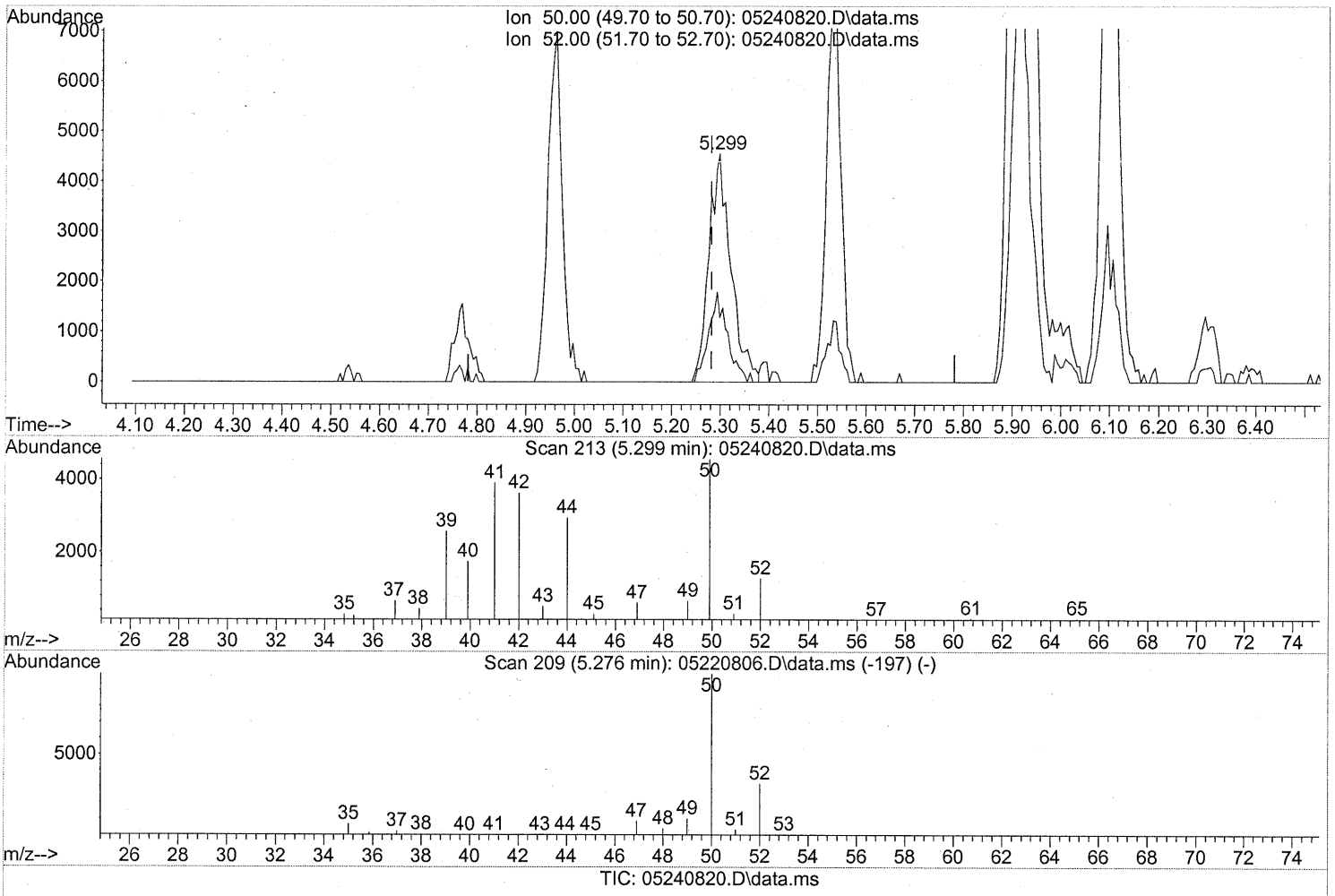
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.83
100.90	9.30	9.37
102.90	6.00	6.04

668

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(4) Chloromethane (T)

5.299min (+0.017) 0.27ng

response 14235

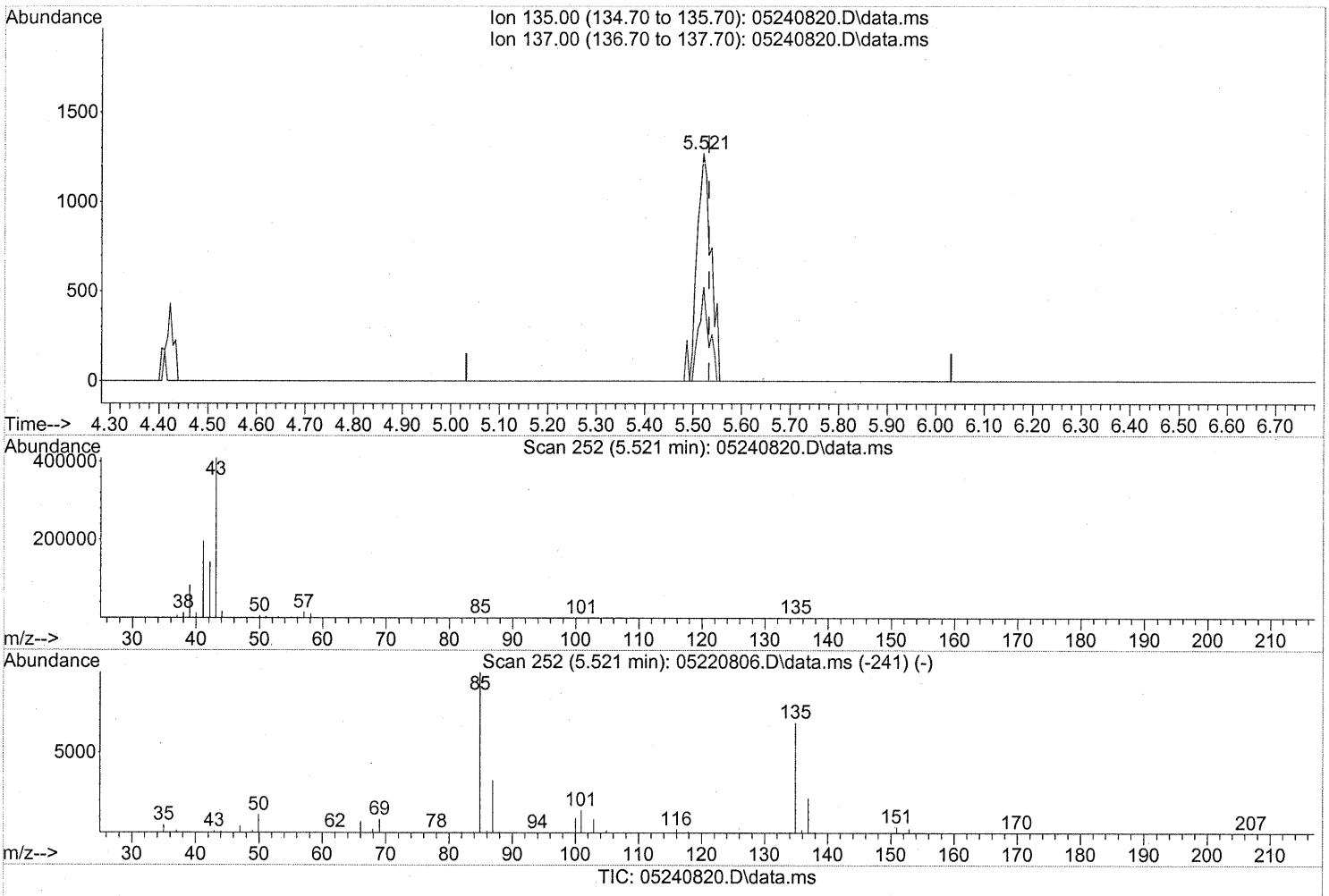
Ion	Exp%	Act%
50.00	100	100
52.00	33.70	33.31
0.00	0.00	0.00
0.00	0.00	0.00

669

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(5) Freon 114 (T)

5.521min (-0.011) 0.06ng

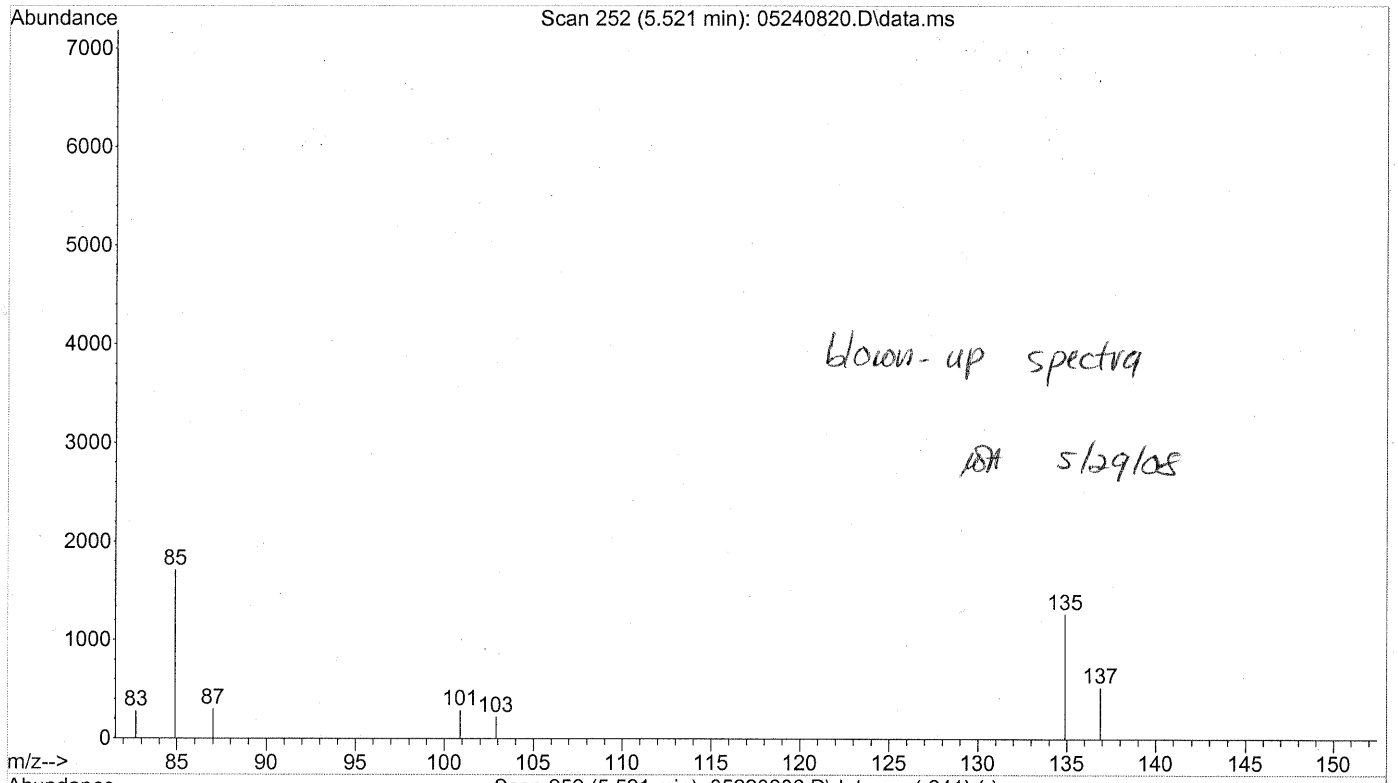
response 2552

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	29.94
0.00	0.00	0.00
0.00	0.00	0.00

see blown-up spectra

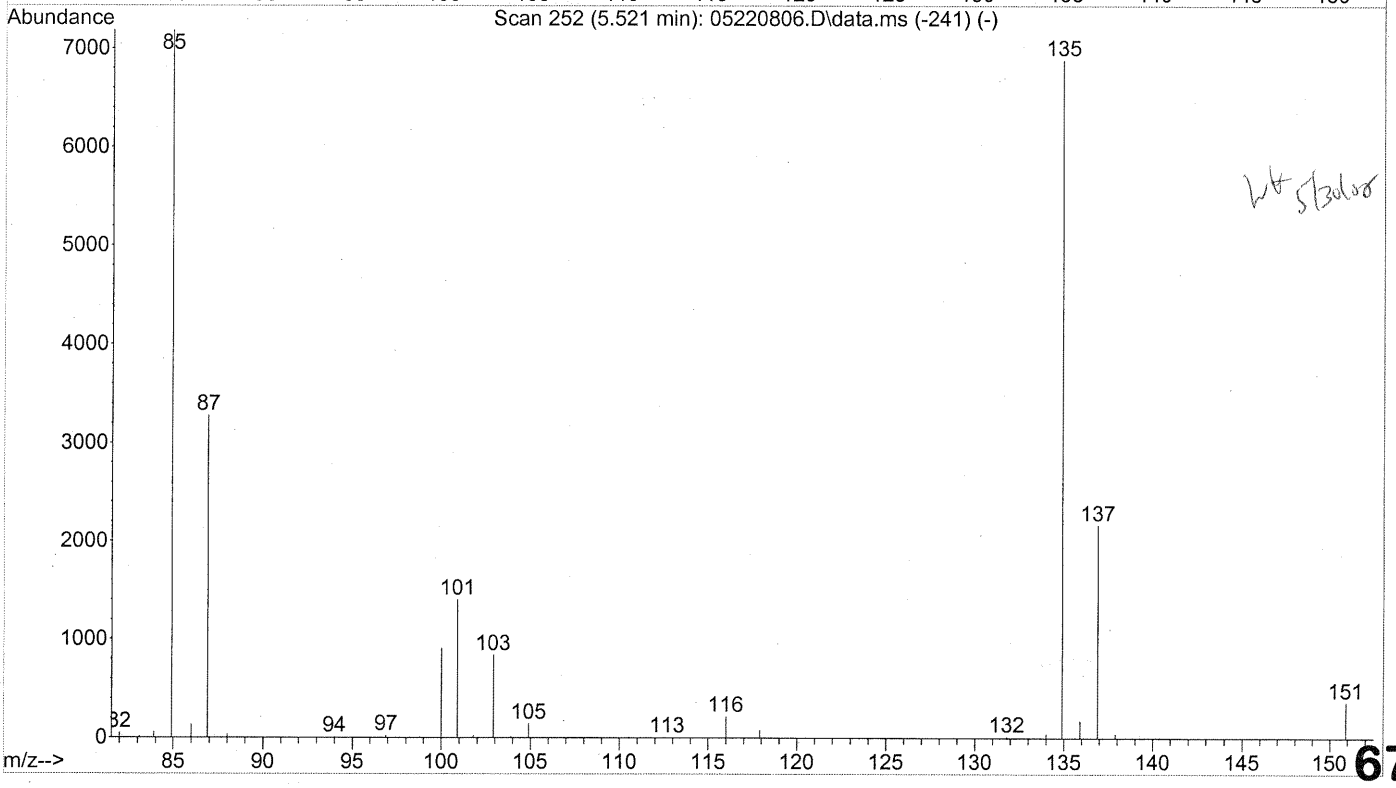
670

File :J:\MS13\DATA\2008_05\24\05240820.D
Operator : WA
Acquired : 24 May 2008 20:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-013 (1000ml)
Misc Info : ENSR SG85B-05 (-3.0, 3.5)
Vial Number: 17



Blown-up spectra

RH 5/29/08

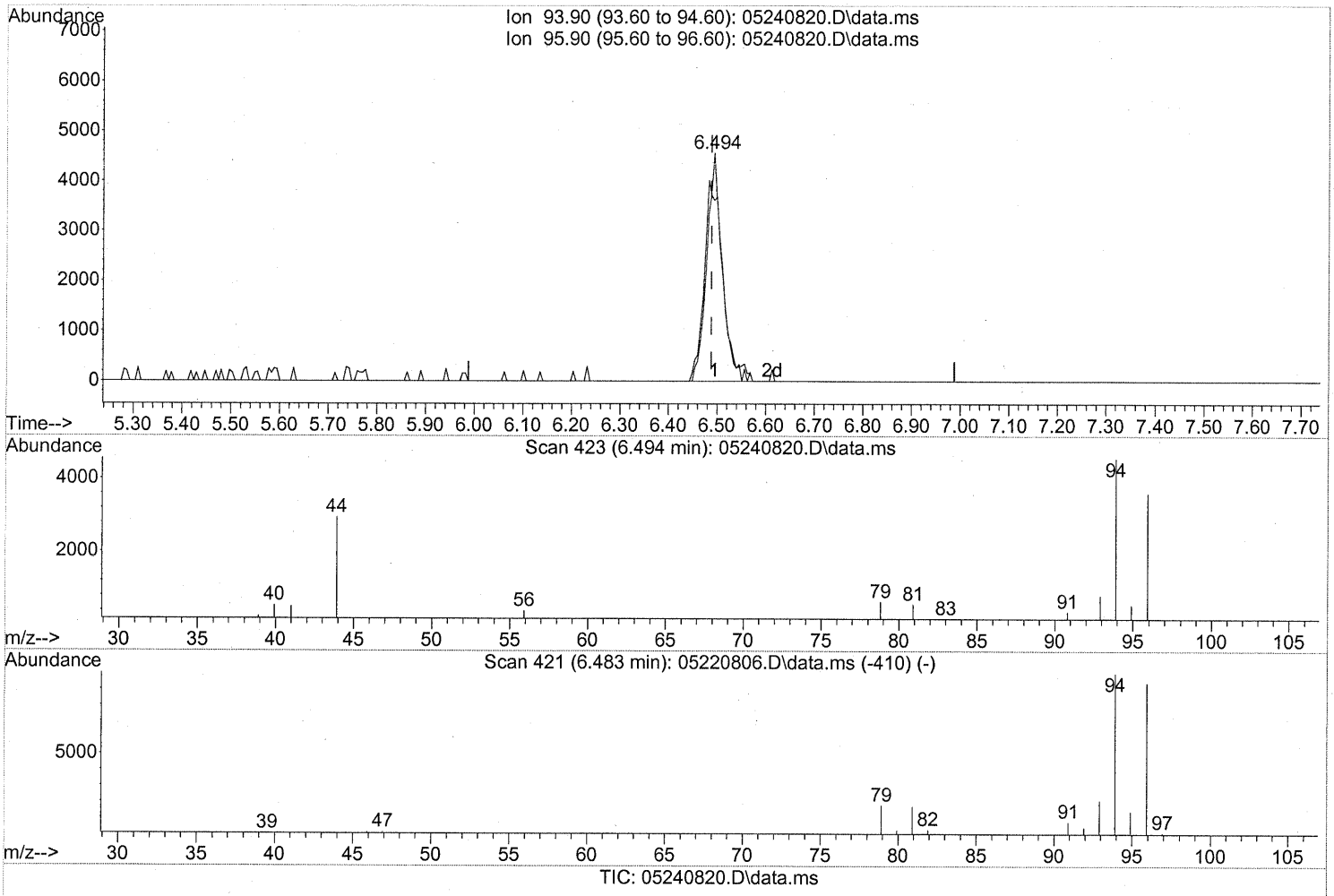


RH 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(8) Bromomethane (T)

6.494min (+0.006) 0.38ng

response 11080

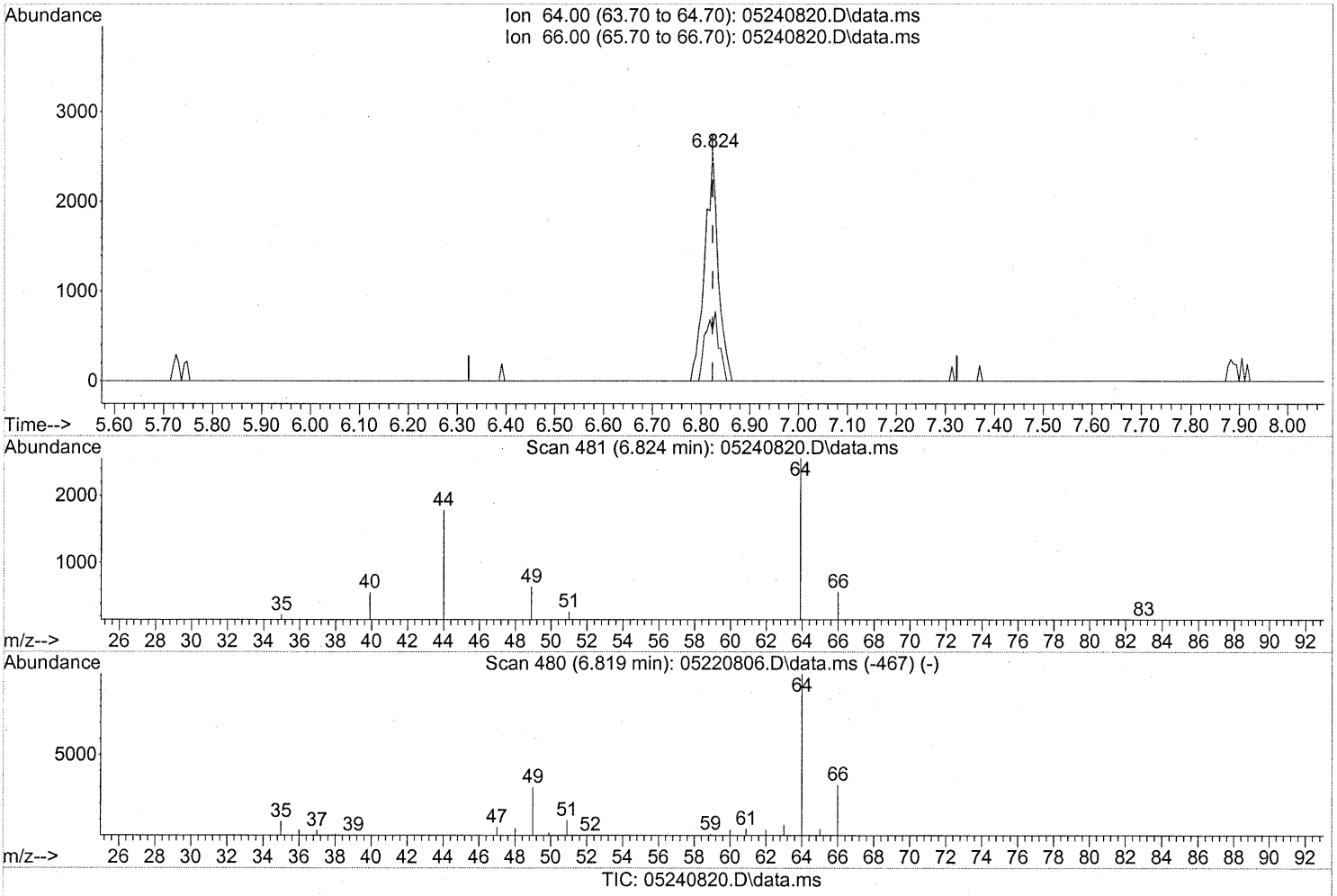
Ion	Exp%	Act%
93.90	100	100
95.90	92.30	88.55
0.00	0.00	0.00
0.00	0.00	0.00

672

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(9) Chloroethane (T)

6.824min (-0.000) 0.19ng

response 4885

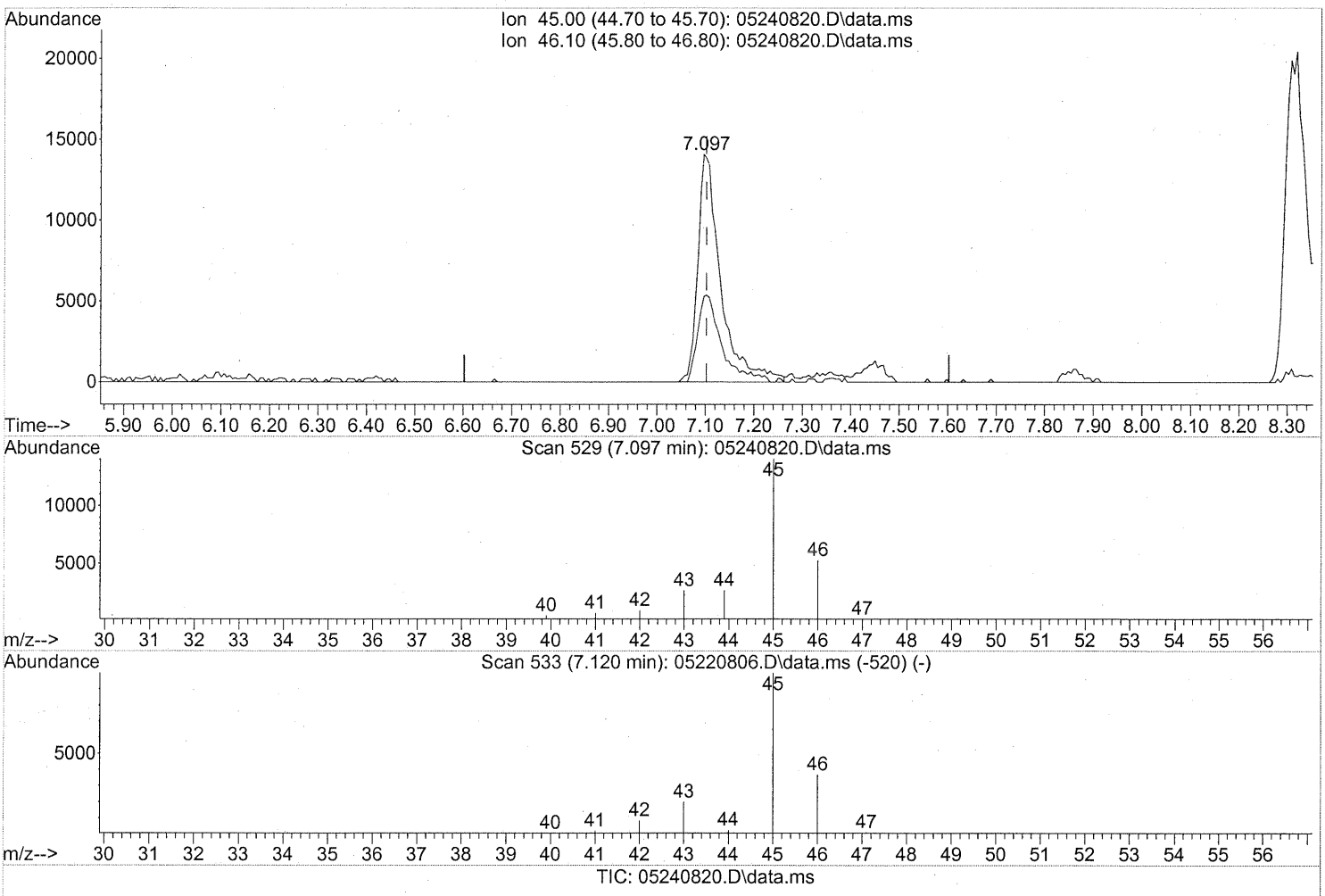
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	29.38
0.00	0.00	0.00
0.00	0.00	0.00

673

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 1.56ng

response 46099

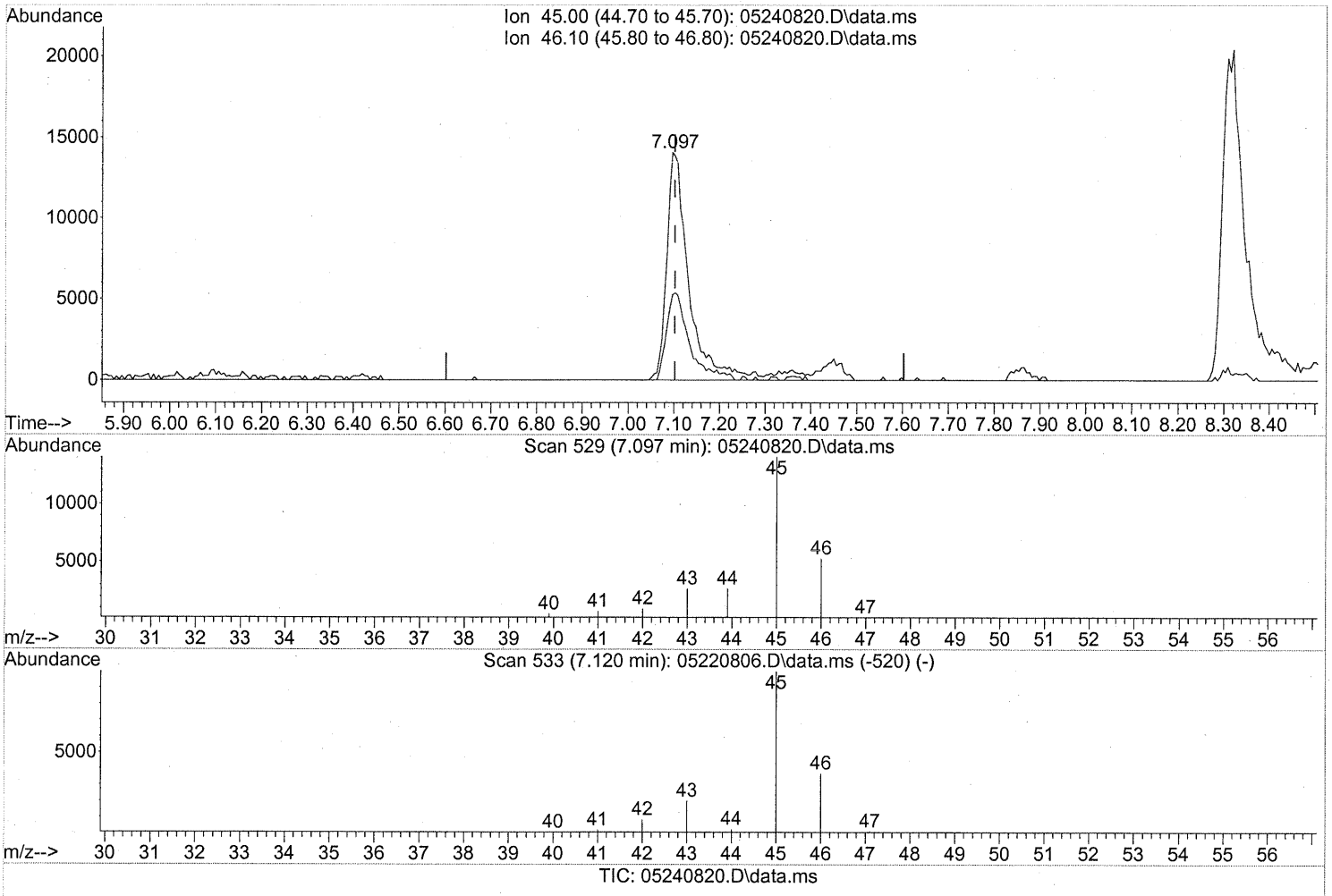
tailing

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	39.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 1.80ng m

response 53107

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.70
0.00	0.00	0.00
0.00	0.00	0.00

added tailing
5/29/08

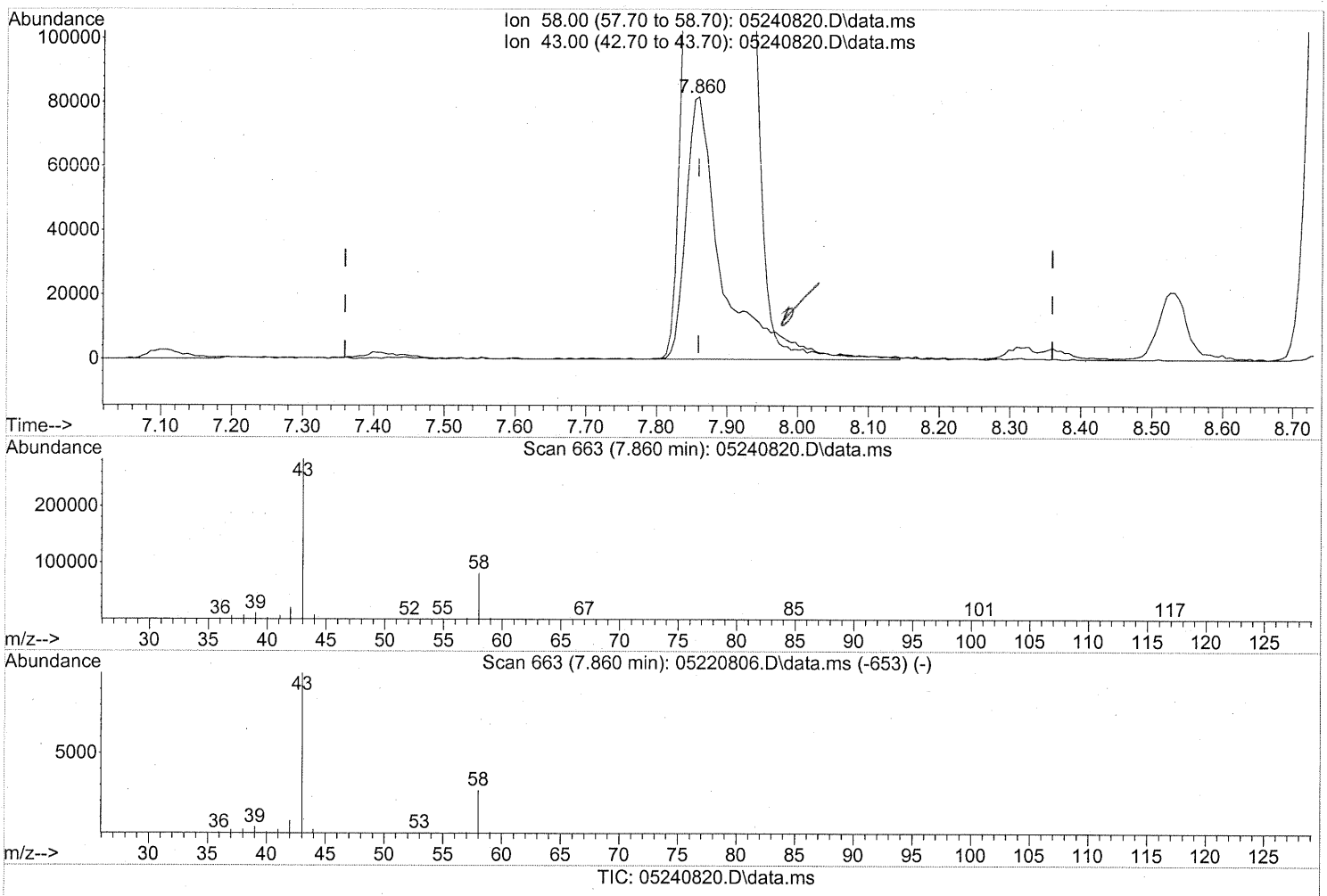
5/30/08

675

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(13) Acetone (T)

7.860min (-0.000) 9.63ng

response 290825

interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	271.09
0.00	0.00	0.00
0.00	0.00	0.00

676

```
Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On    : 24 May 2008  20:14
Operator  : WA
Sample    : P0801442-013 (1000ml)
Misc      : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration
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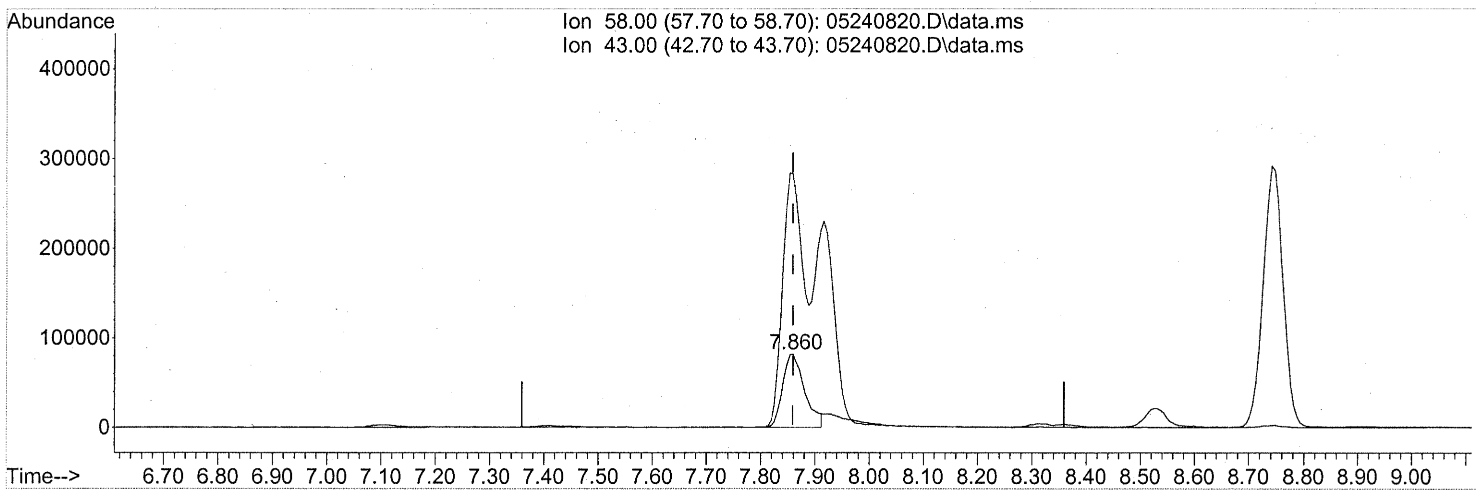
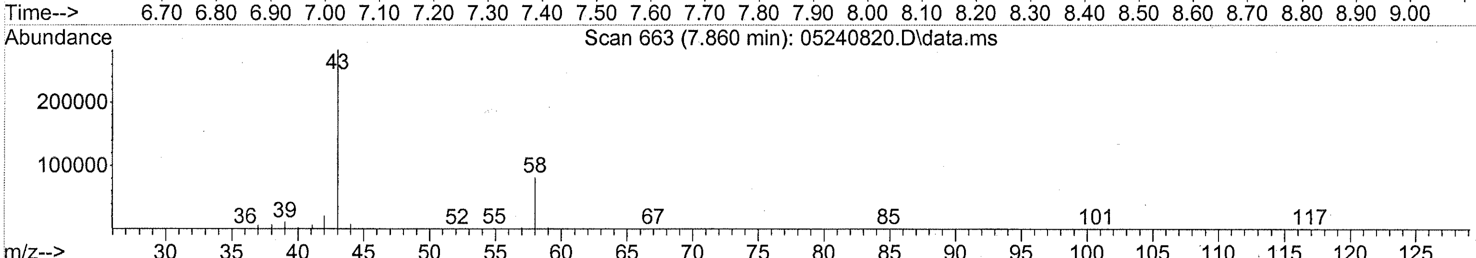
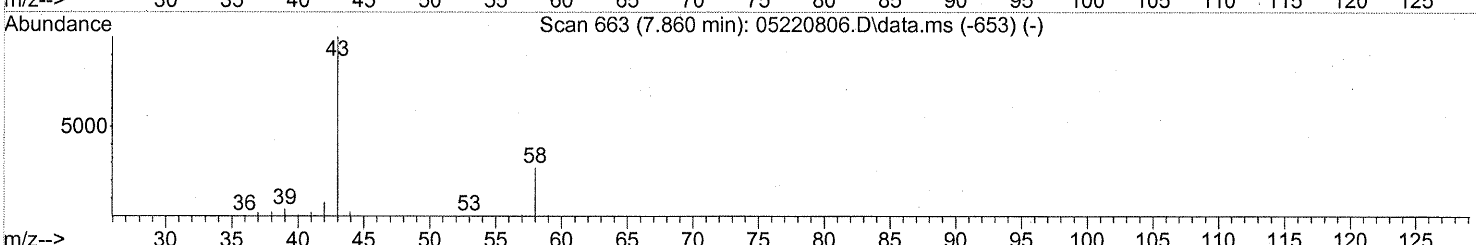






TIC: 05240820.D\data.ms

(13) Acetone (T)

7.860min (-0.000) 7.52ng m

response 227084

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	347.18#
0.00	0.00	0.00
0.00	0.00	0.00

N/D shoulder

WA 5/29/08

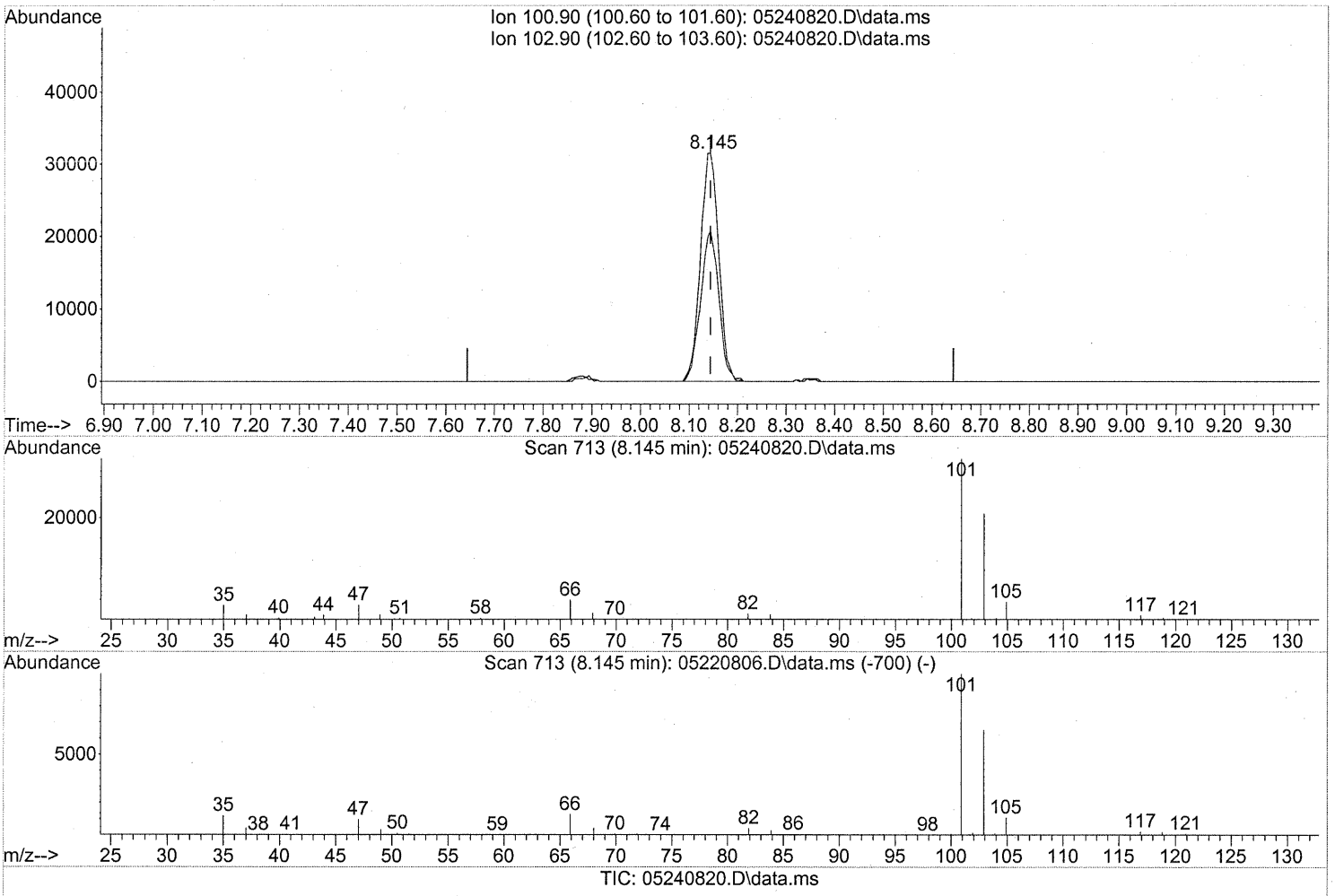
wts 5/30/08

677

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 1.18ng

response 82894

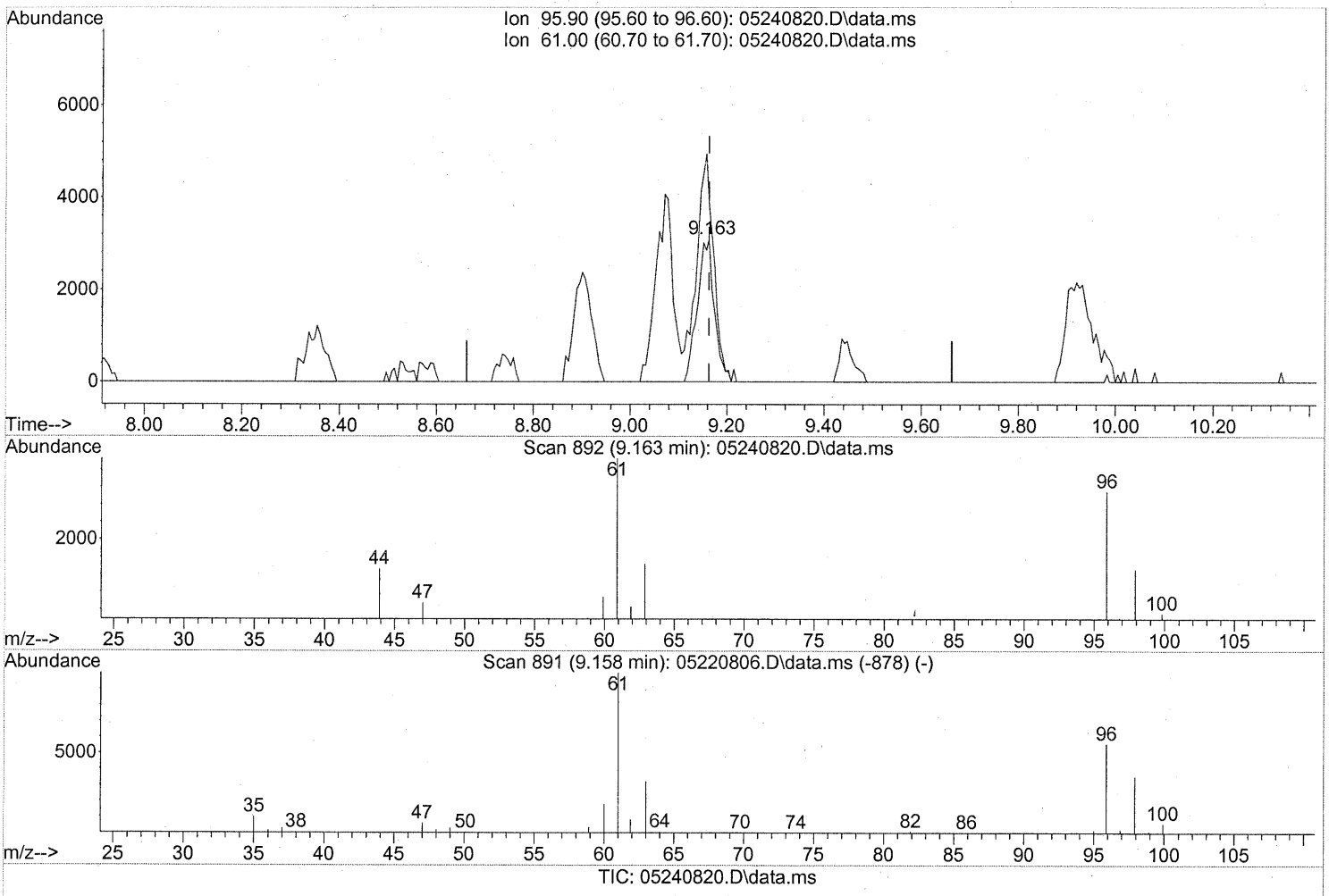
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.57
0.00	0.00	0.00
0.00	0.00	0.00

678

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.24ng

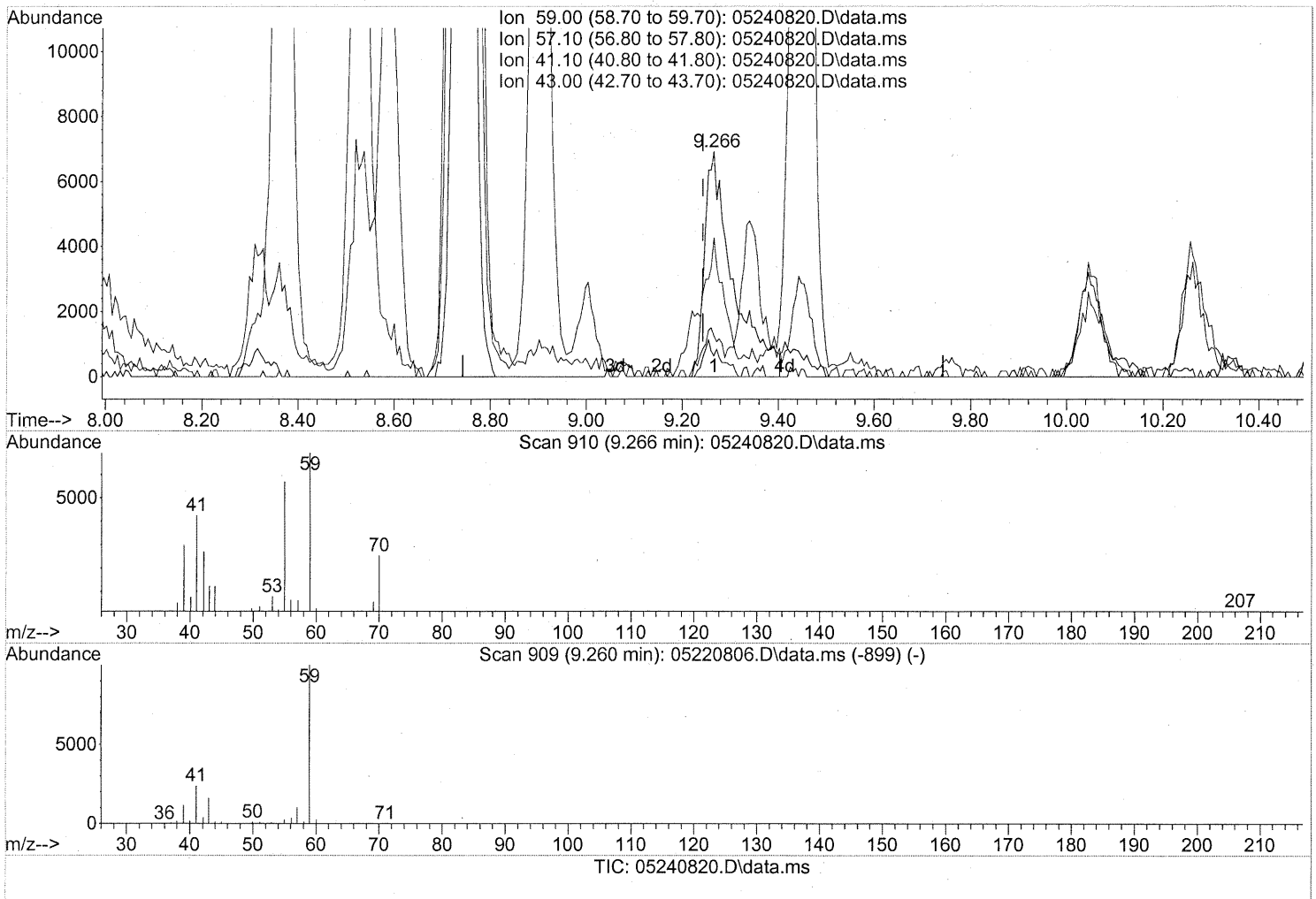
response 7527

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	162.64#
0.00	0.00	0.00
0.00	0.00	0.00

679

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.35ng

response 28317

split peak

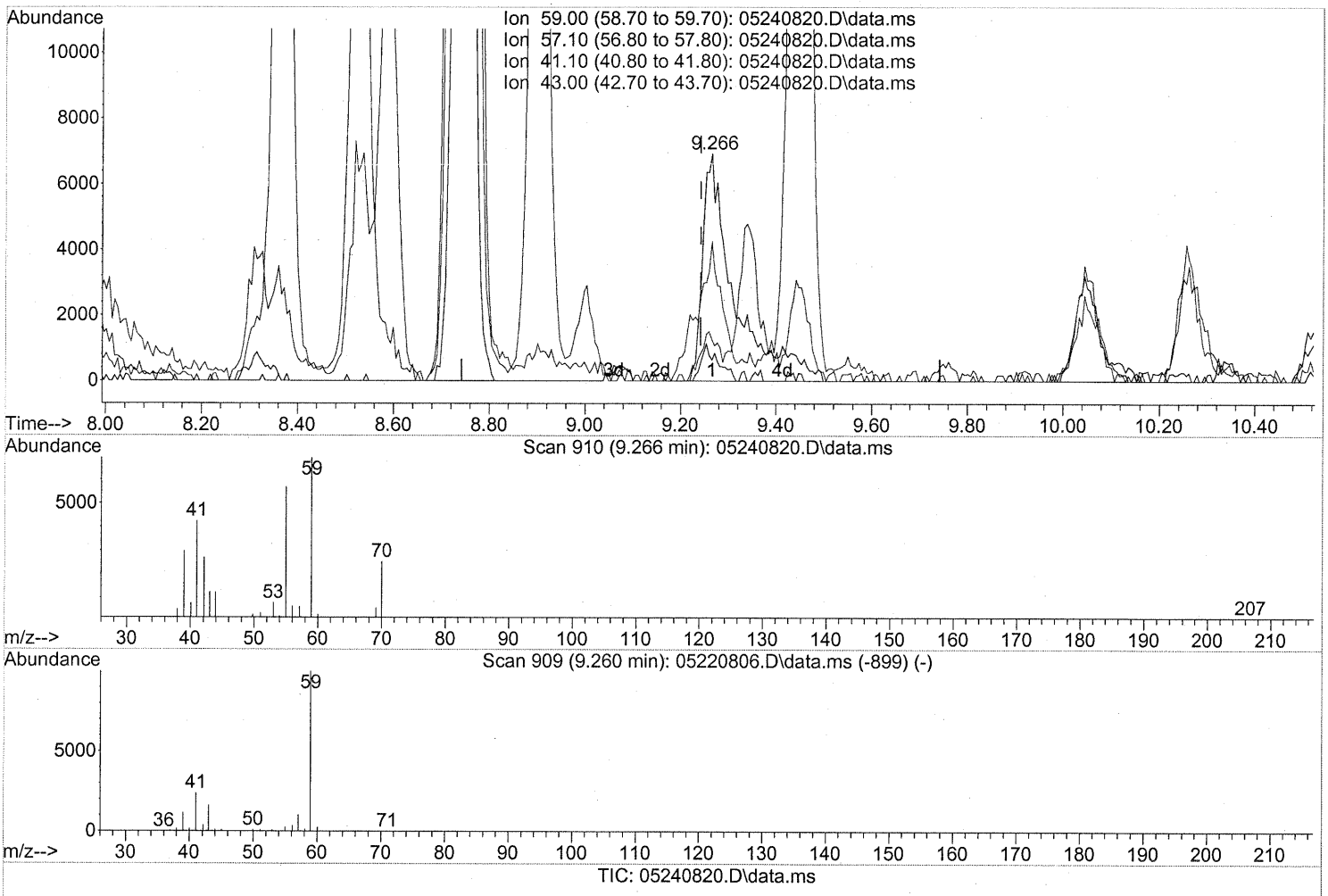
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	9.63
41.10	20.10	59.90#
43.00	12.30	14.83

680

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.39ng m

response 31560

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.64
41.10	20.10	53.75#
43.00	12.30	13.30

int. whole peaks

5/29/08

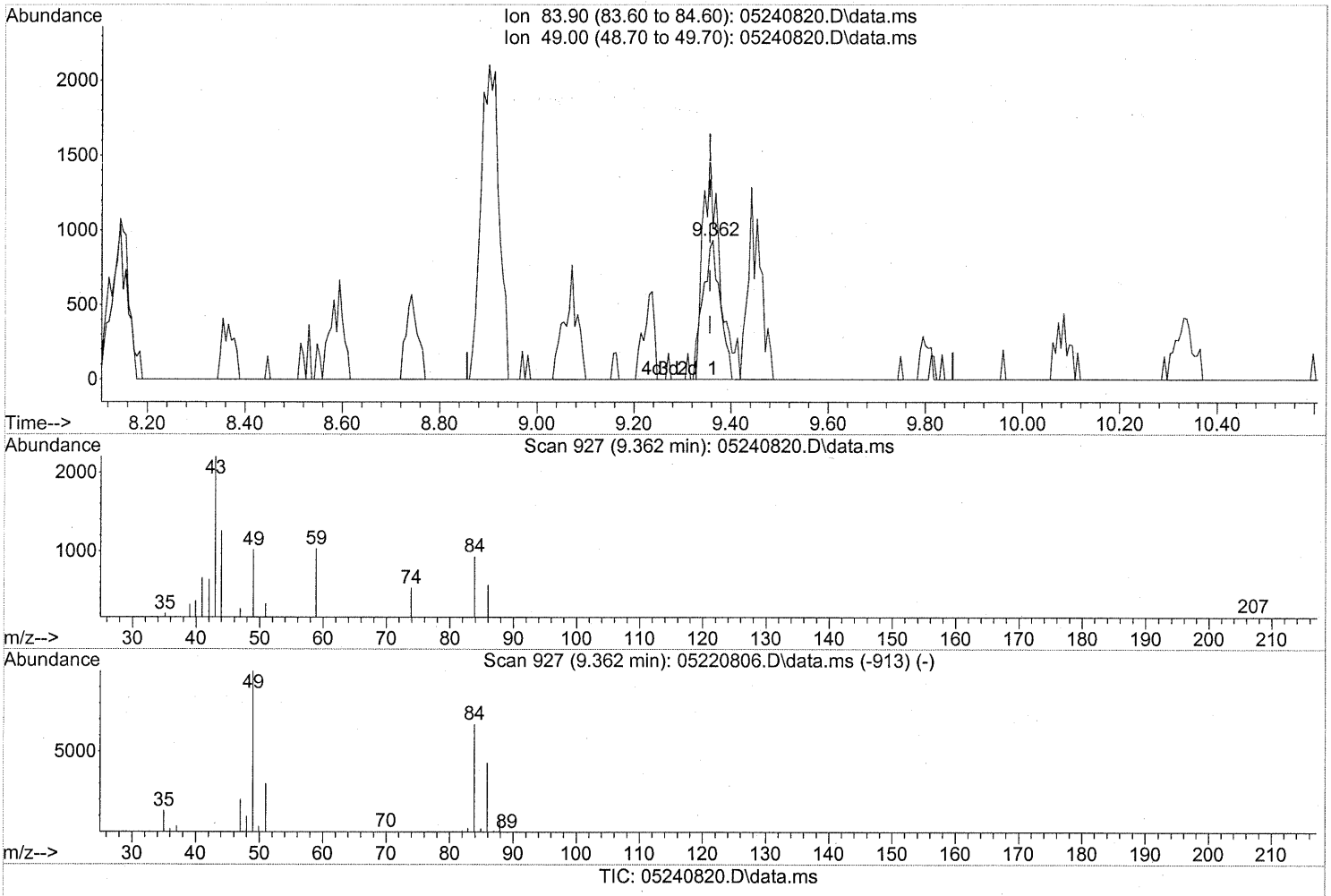
W 5/30/08

681

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.07ng

response 2247

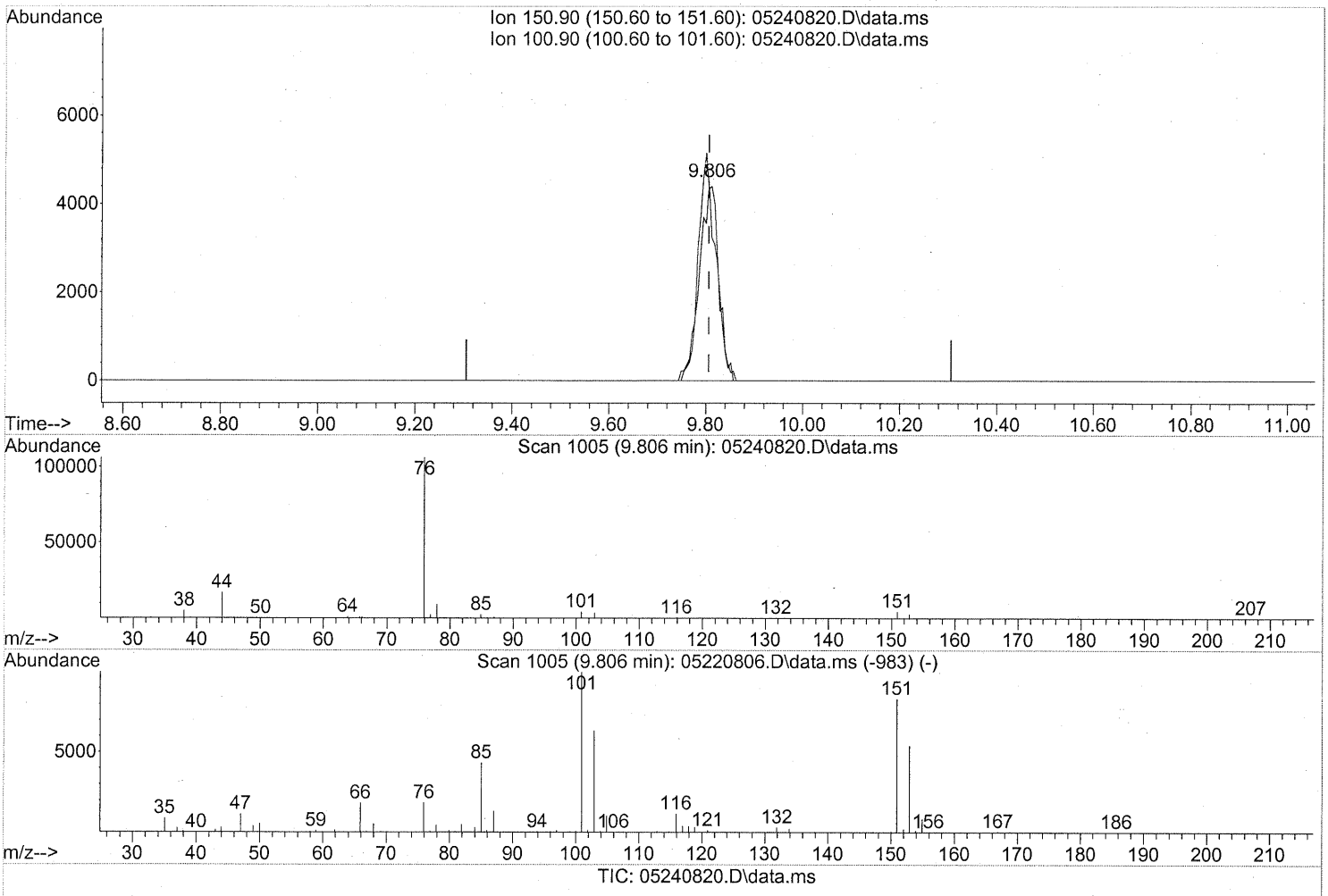
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	166.04
0.00	0.00	0.00
0.00	0.00	0.00

682

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.35ng

response 11278

before

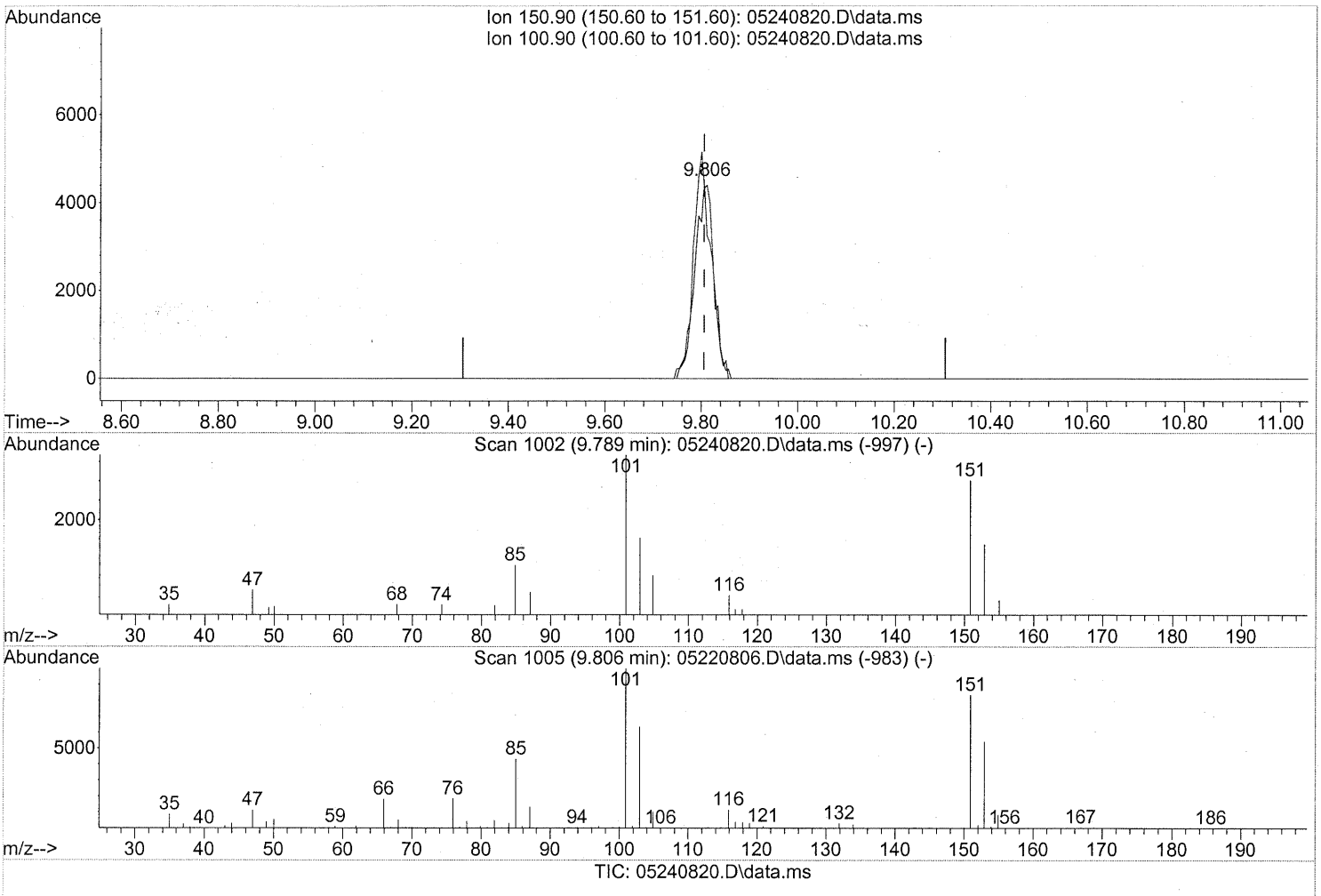
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	122.48
0.00	0.00	0.00
0.00	0.00	0.00

683

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.35ng

response 11278

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	122.48
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

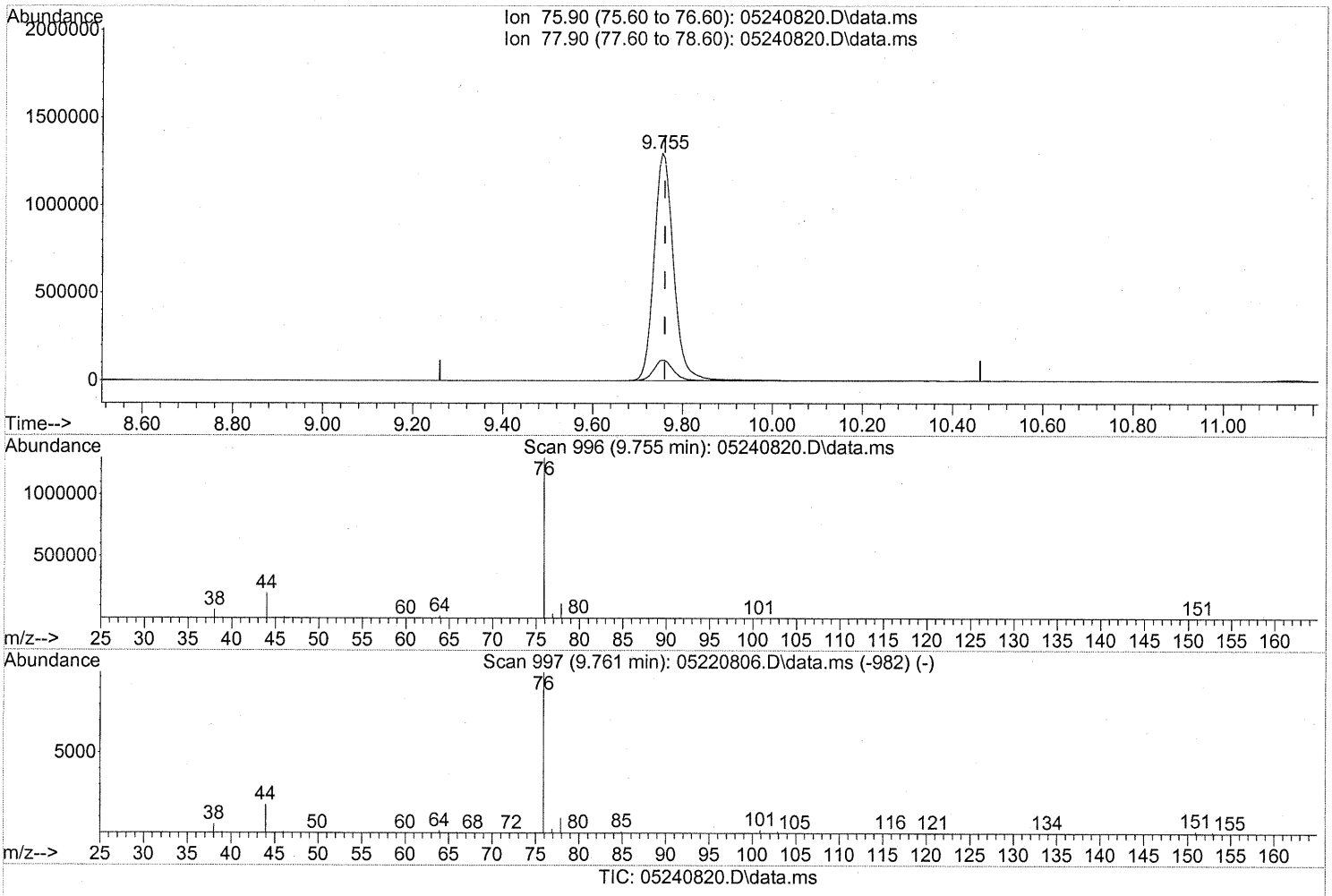
5/29/08

684

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 30.40ng

response 3894857

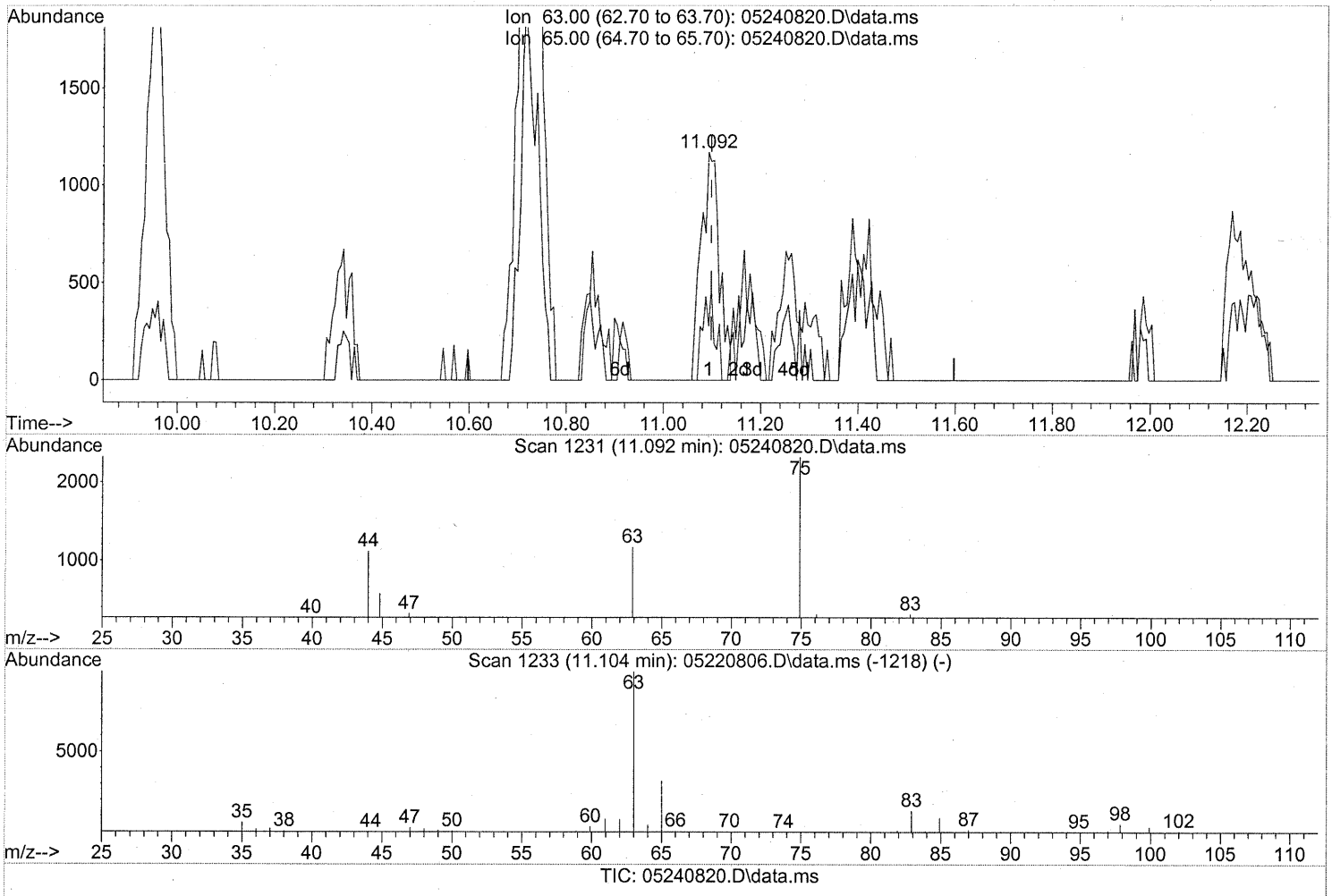
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.88
0.00	0.00	0.00
0.00	0.00	0.00

685

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(24) 1,1-Dichloroethane (T)

11.092min (-0.006) 0.05ng

response 3072

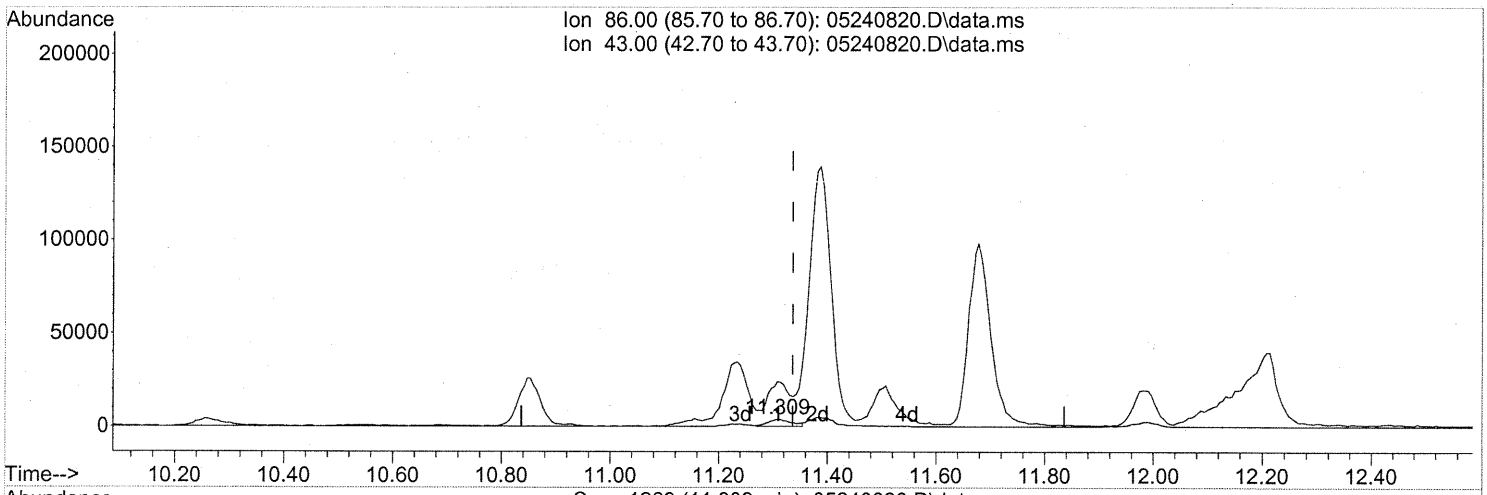
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	26.01
0.00	0.00	0.00
0.00	0.00	0.00

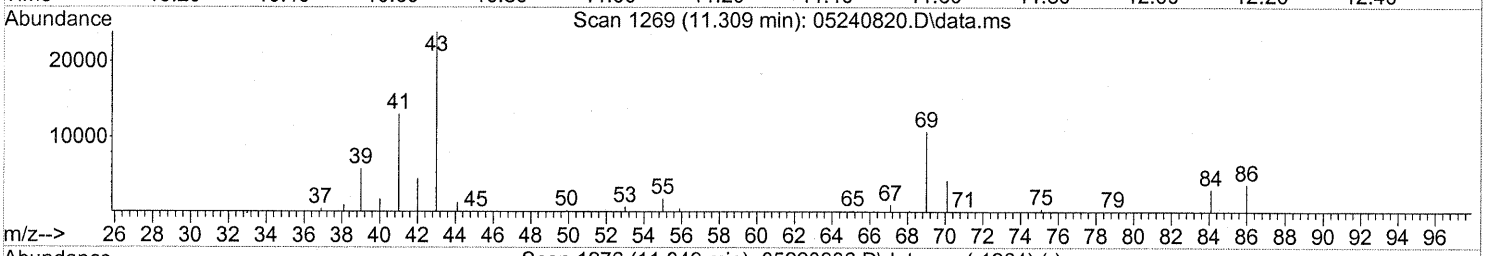
686

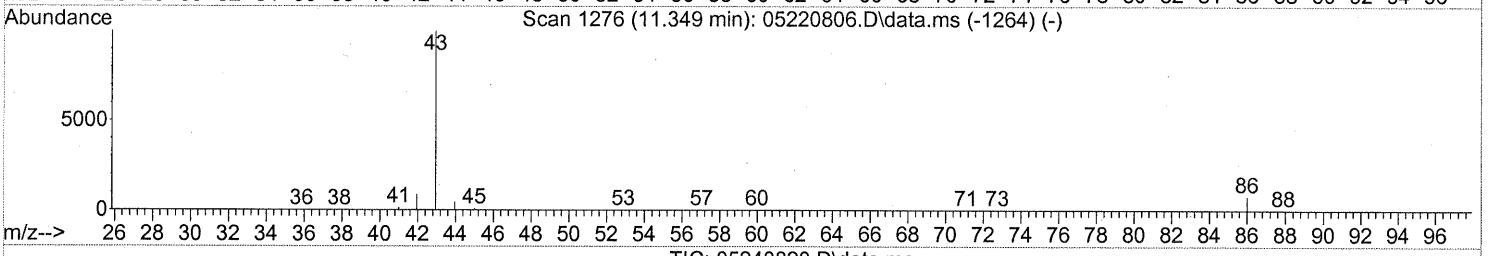
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(26) Vinyl Acetate (T)

11.309min (-0.028) 1.98ng

response 11071

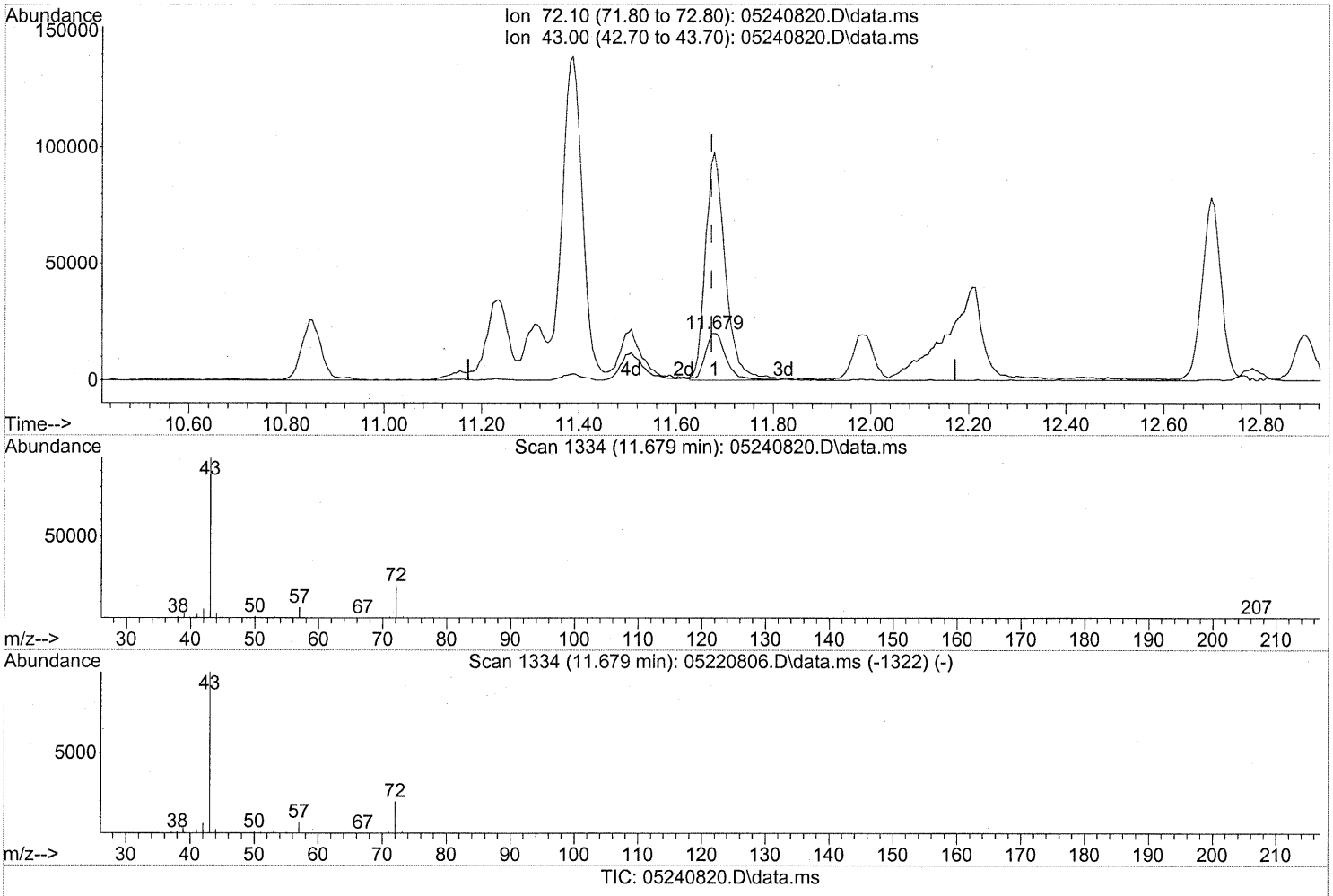
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	610.05#
0.00	0.00	0.00
0.00	0.00	0.00

687

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 2.71ng

response 59821

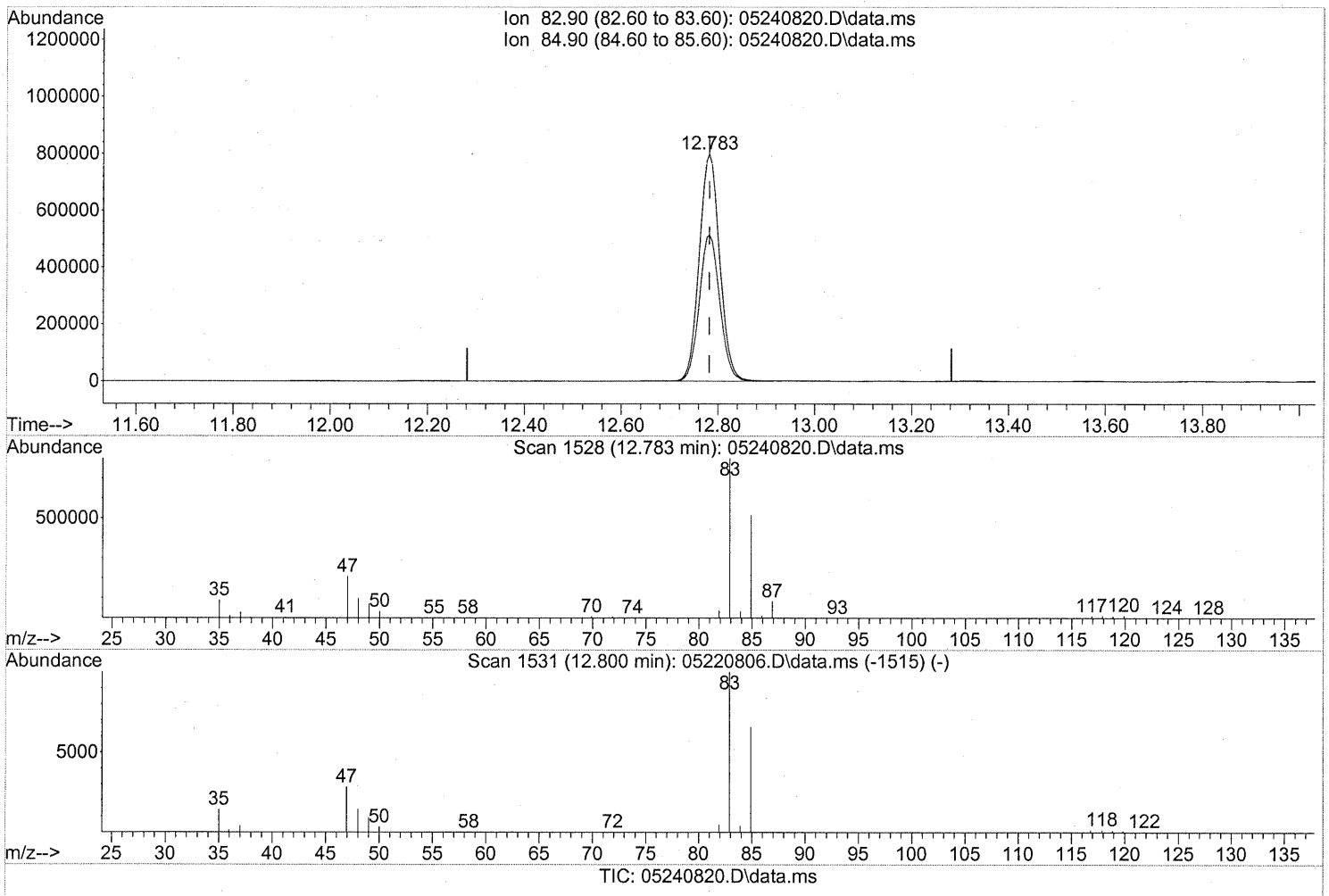
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	455.56#
0.00	0.00	0.00
0.00	0.00	0.00

688

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(32) Chloroform (T)

12.783min (-0.000) 45.76ng

response 2341829

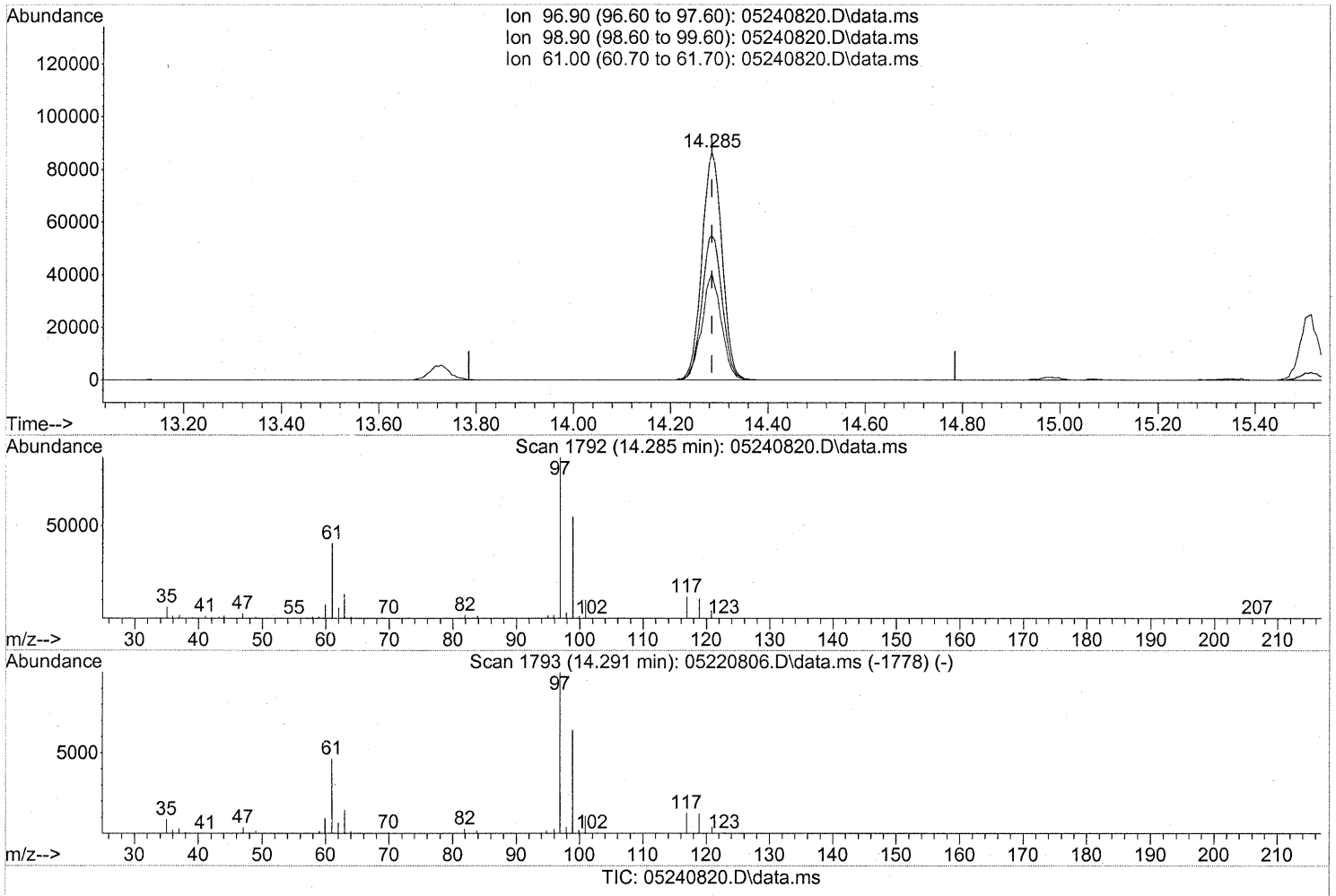
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.63
0.00	0.00	0.00
0.00	0.00	0.00

689

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 4.60ng

response 249808

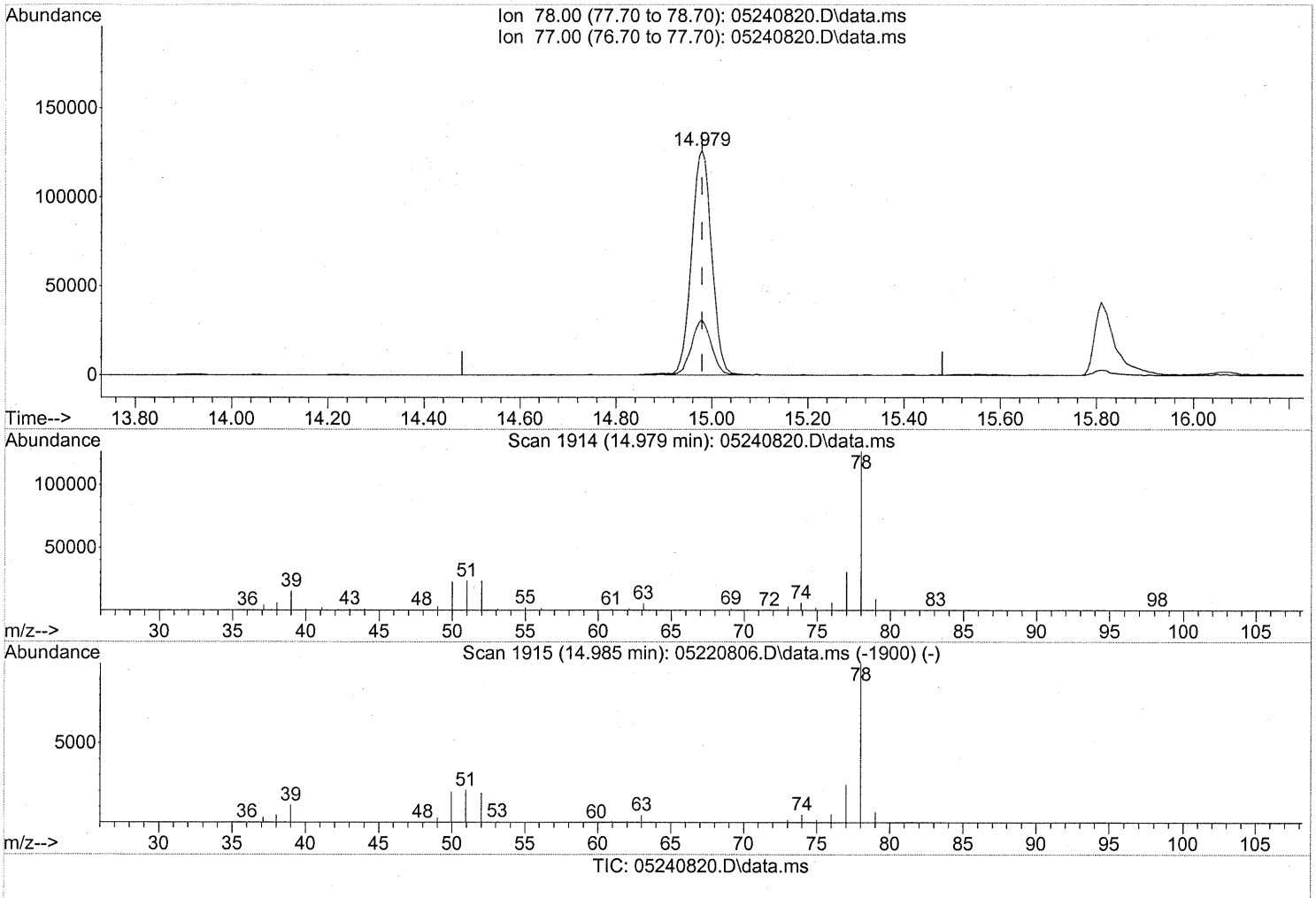
Ion	Exp%	Act%
96.90	100	100
98.90	63.40	64.21
61.00	50.50	44.90
0.00	0.00	0.00

690

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 2.93ng

response 366227

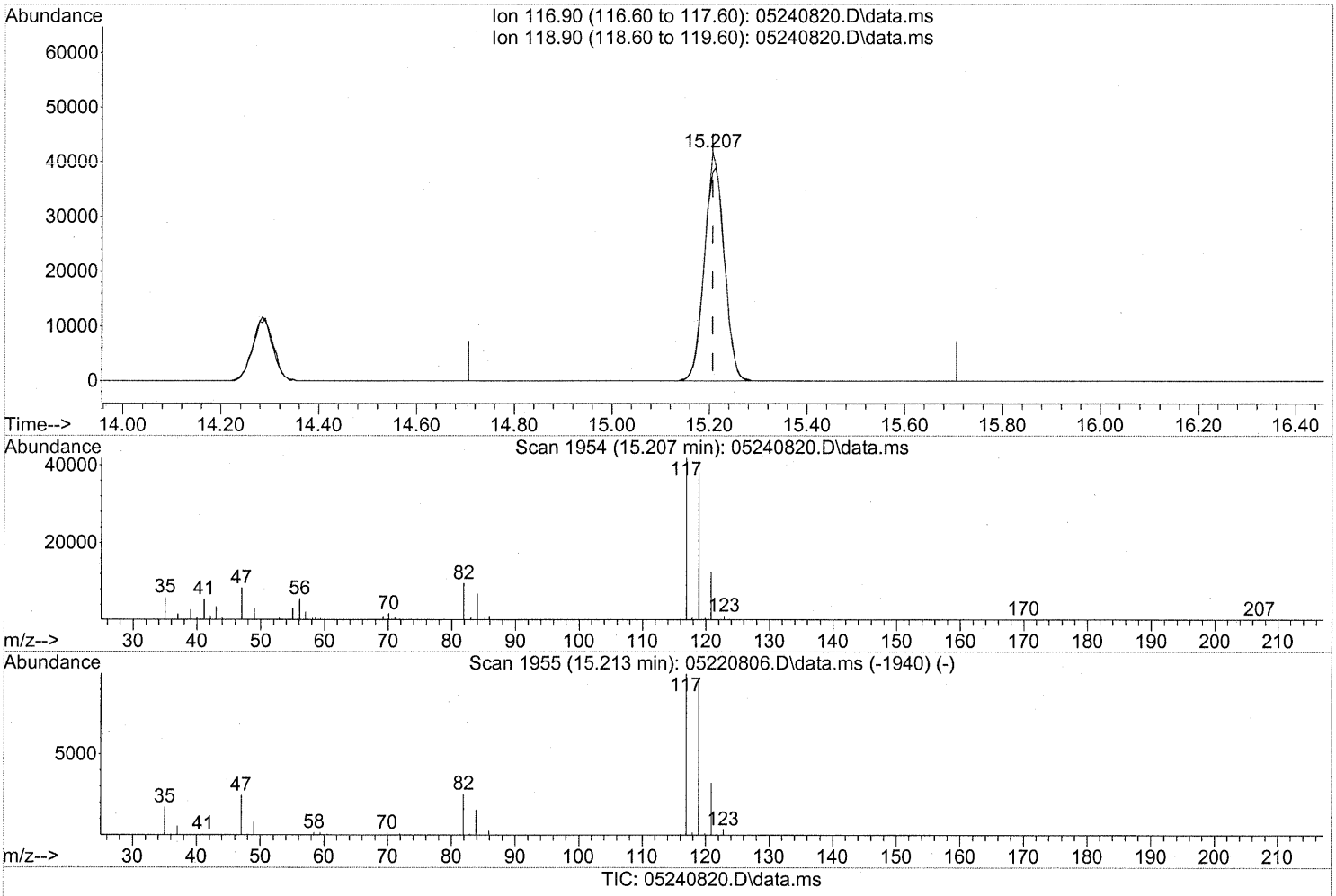
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.87
0.00	0.00	0.00
0.00	0.00	0.00

691

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 2.42ng

response 116242

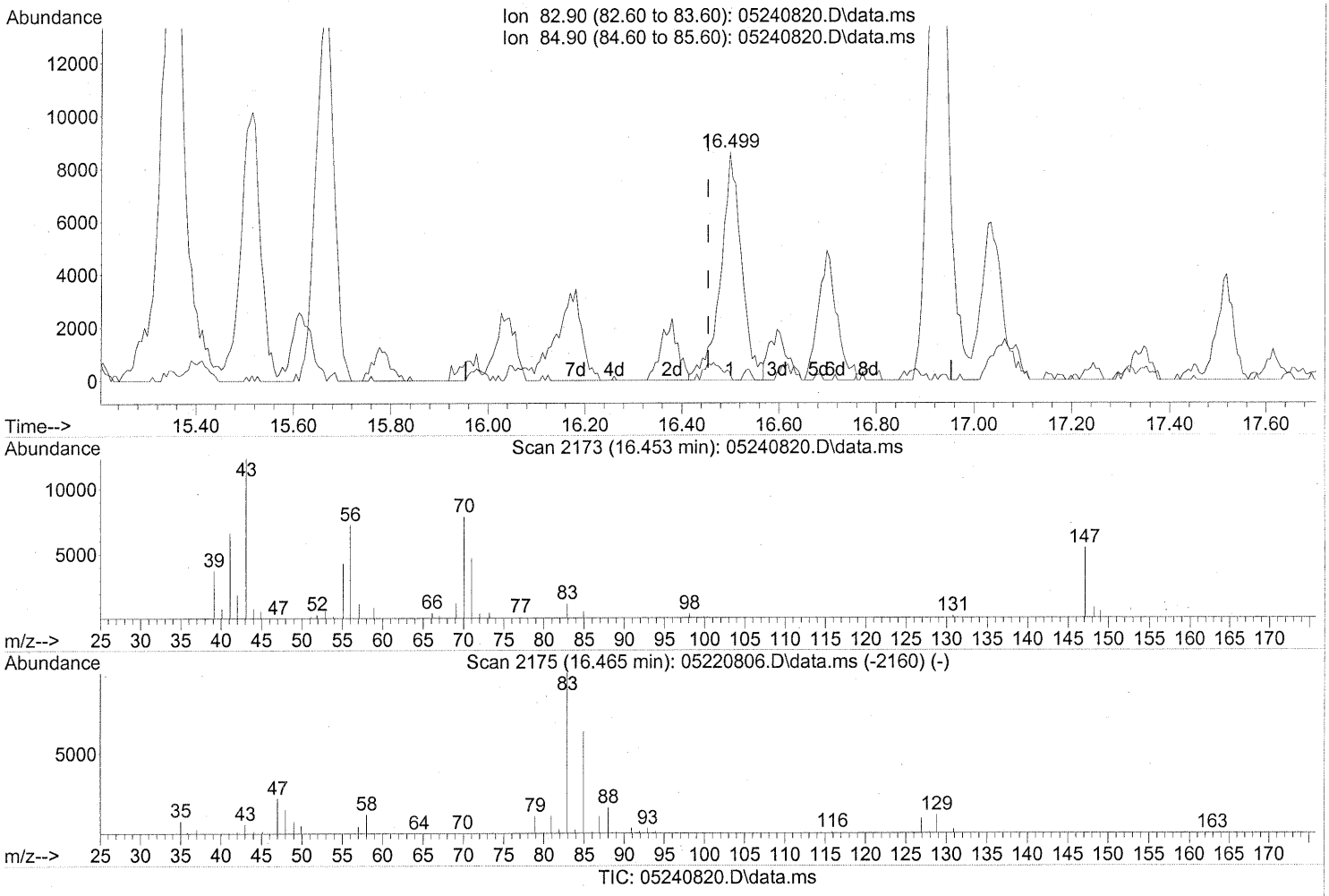
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.10
0.00	0.00	0.00
0.00	0.00	0.00

692

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 8:14 pm
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(46) Bromodichloromethane (T)

16.499min (+0.045) 0.61ng

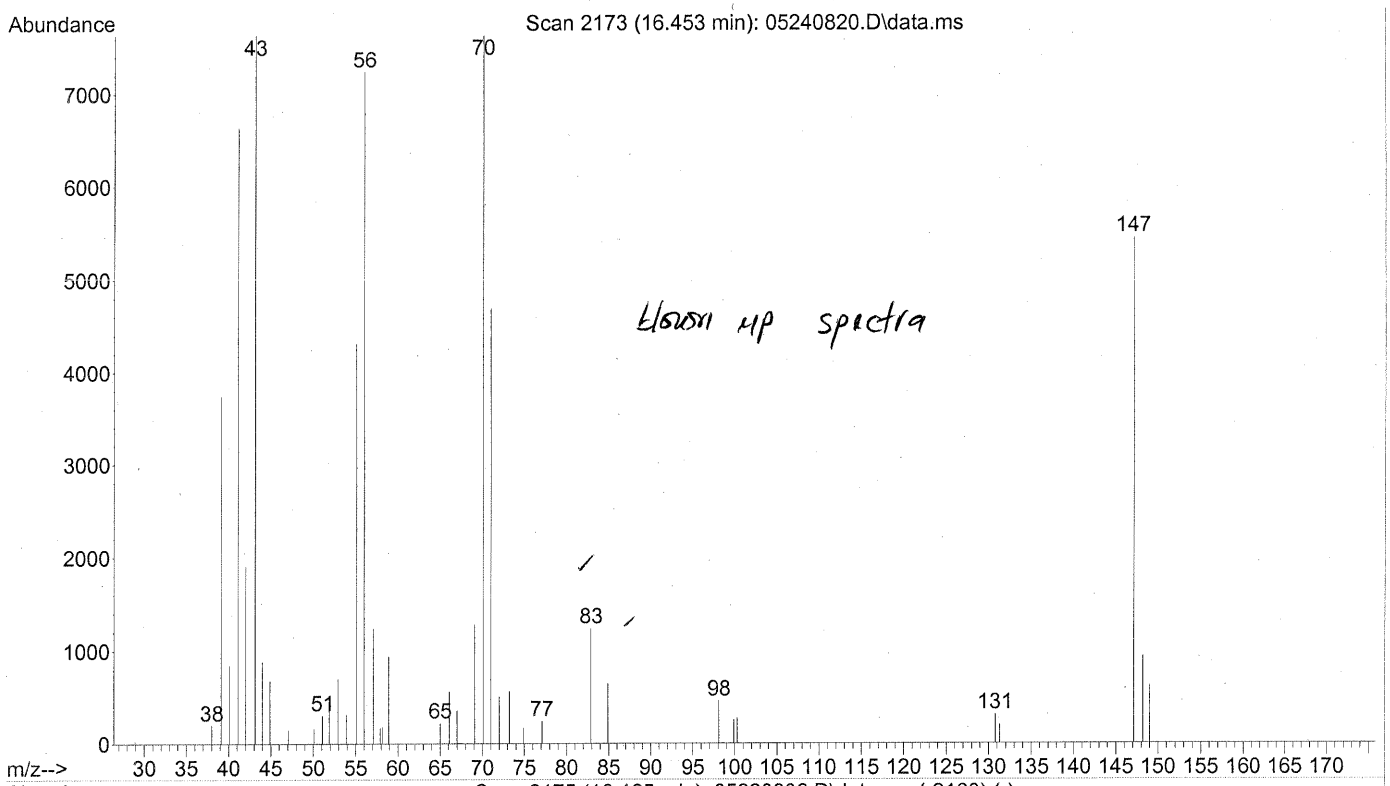
response 25862

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

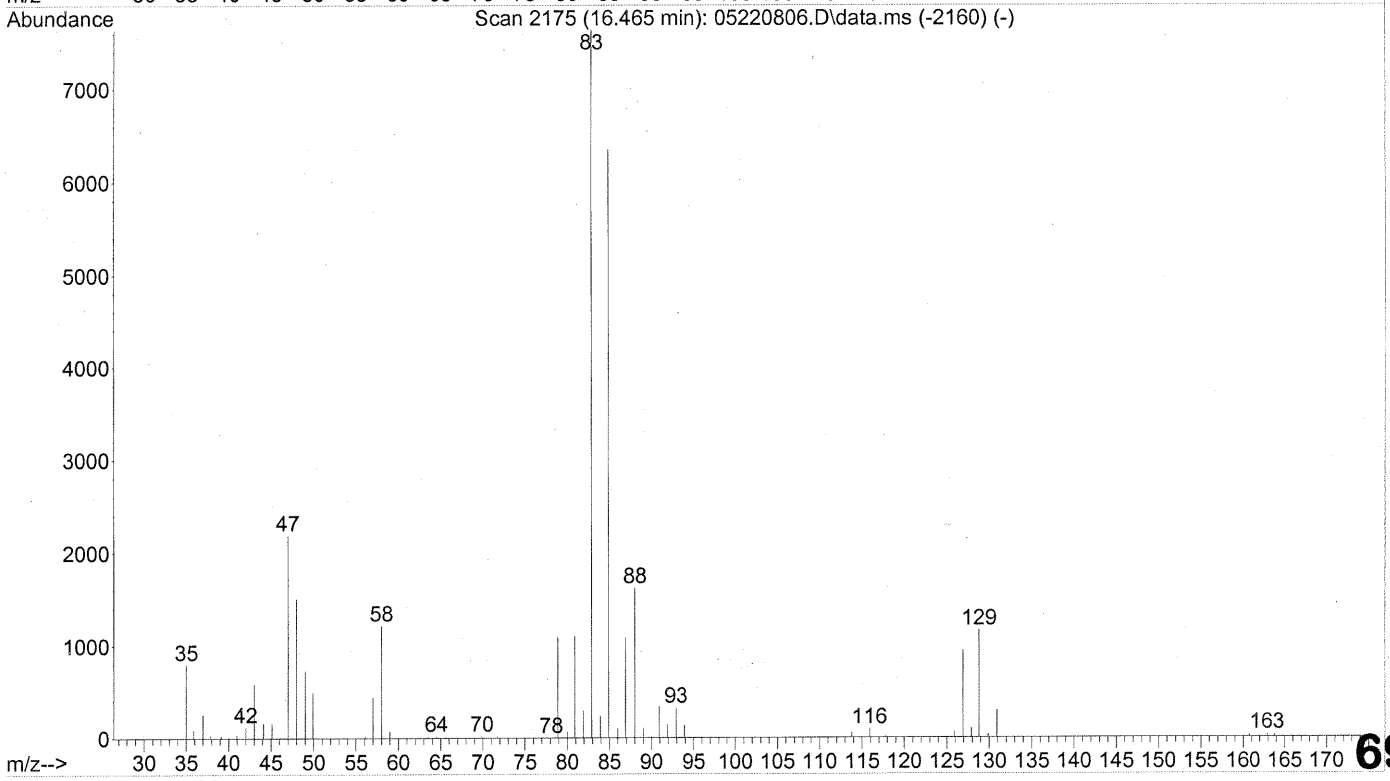
SIL blown up spectra

693

File :J:\MS13\DATA\2008_05\24\05240820.D
Operator : WA
Acquired : 24 May 2008 8:14 pm using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801442-013 (1000ml)
Misc Info : ENSR SG85B-05 (-3.0, 3.5)
Vial Number: 17



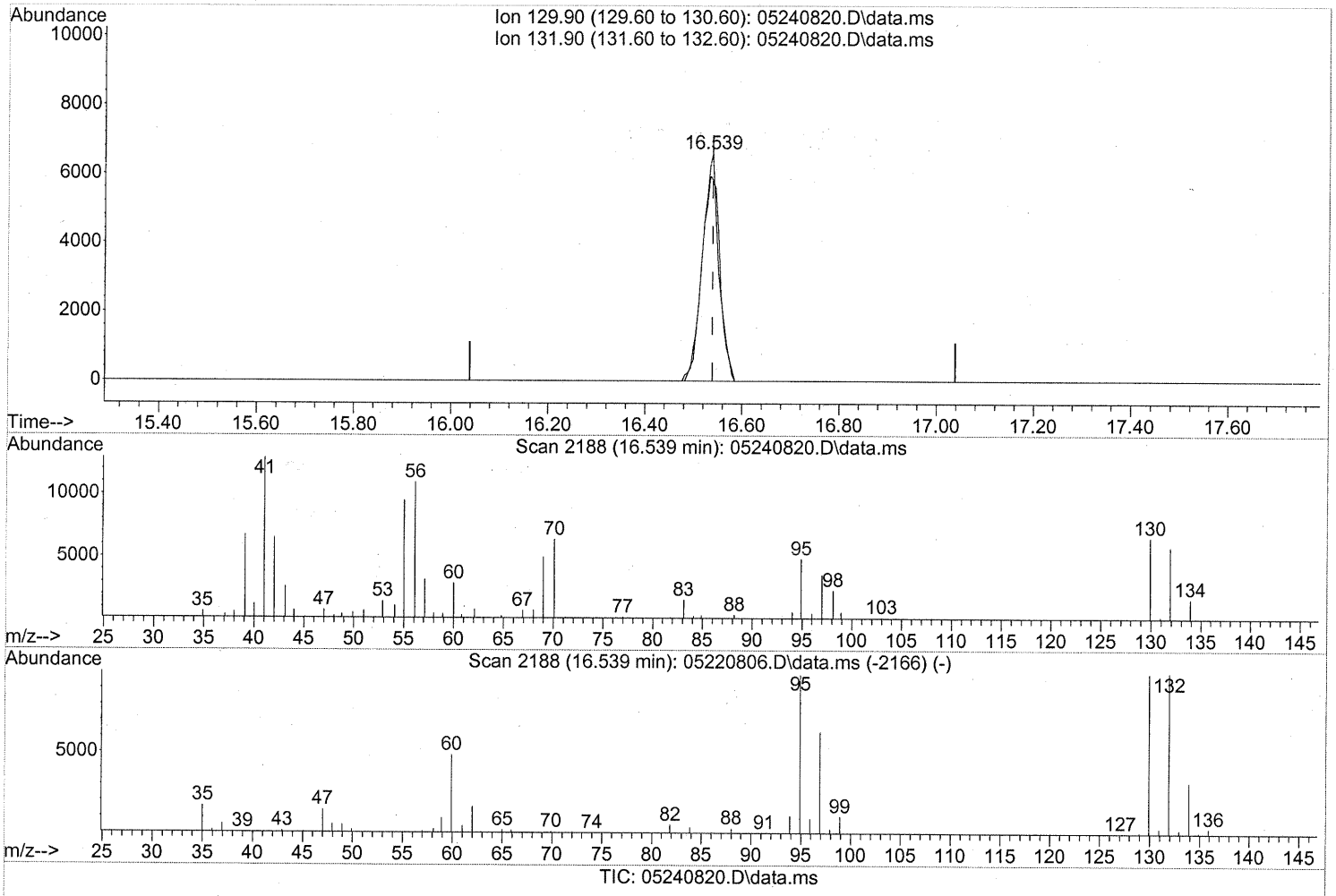
Blown up spectra



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(47) Trichloroethene (T)

16.539min (-0.000) 0.40ng

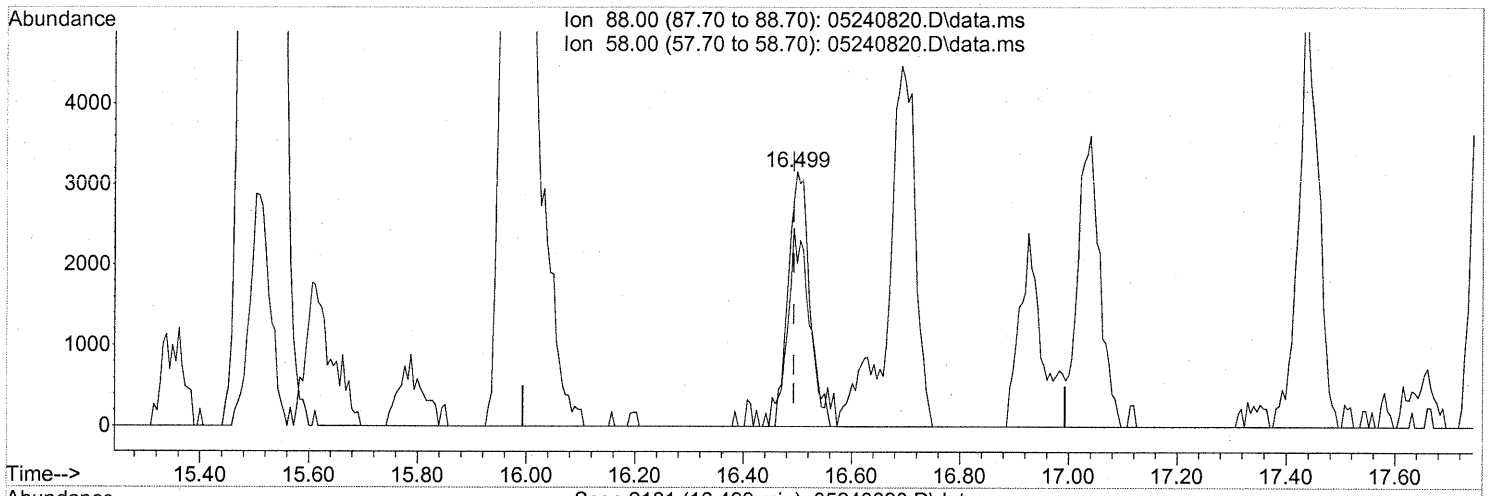
response 15488

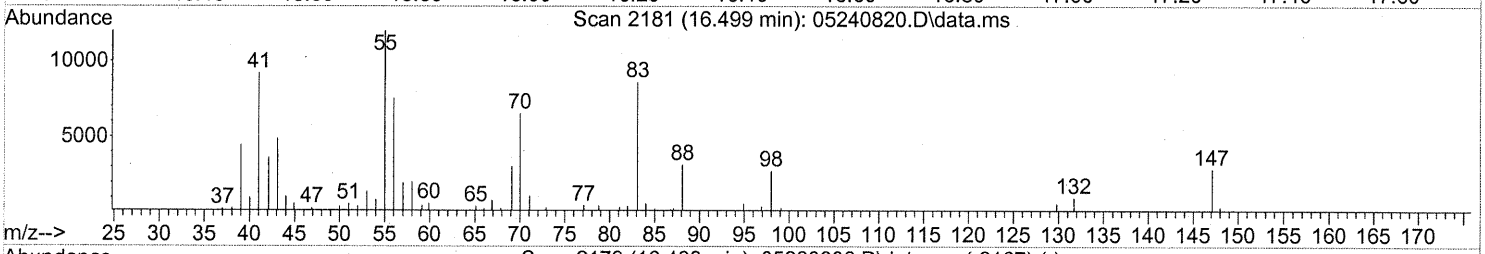
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.96
0.00	0.00	0.00
0.00	0.00	0.00

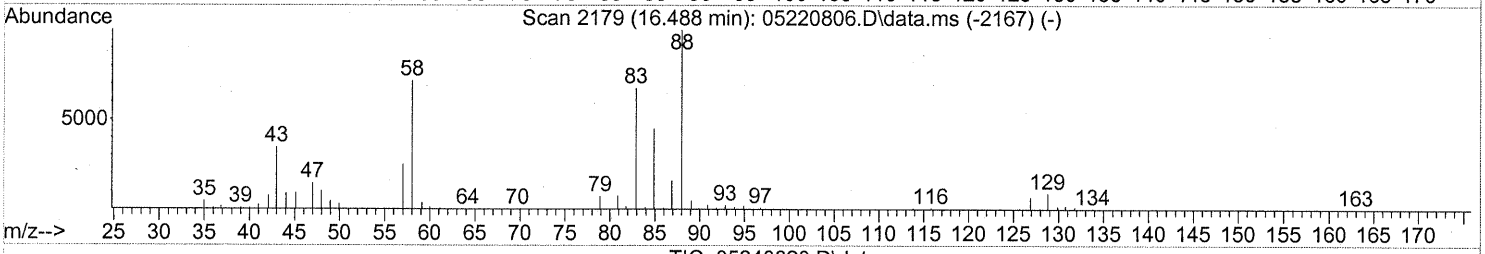
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(48) 1,4-Dioxane (T)

16.499min (+0.006) 0.37ng

response 8660

before

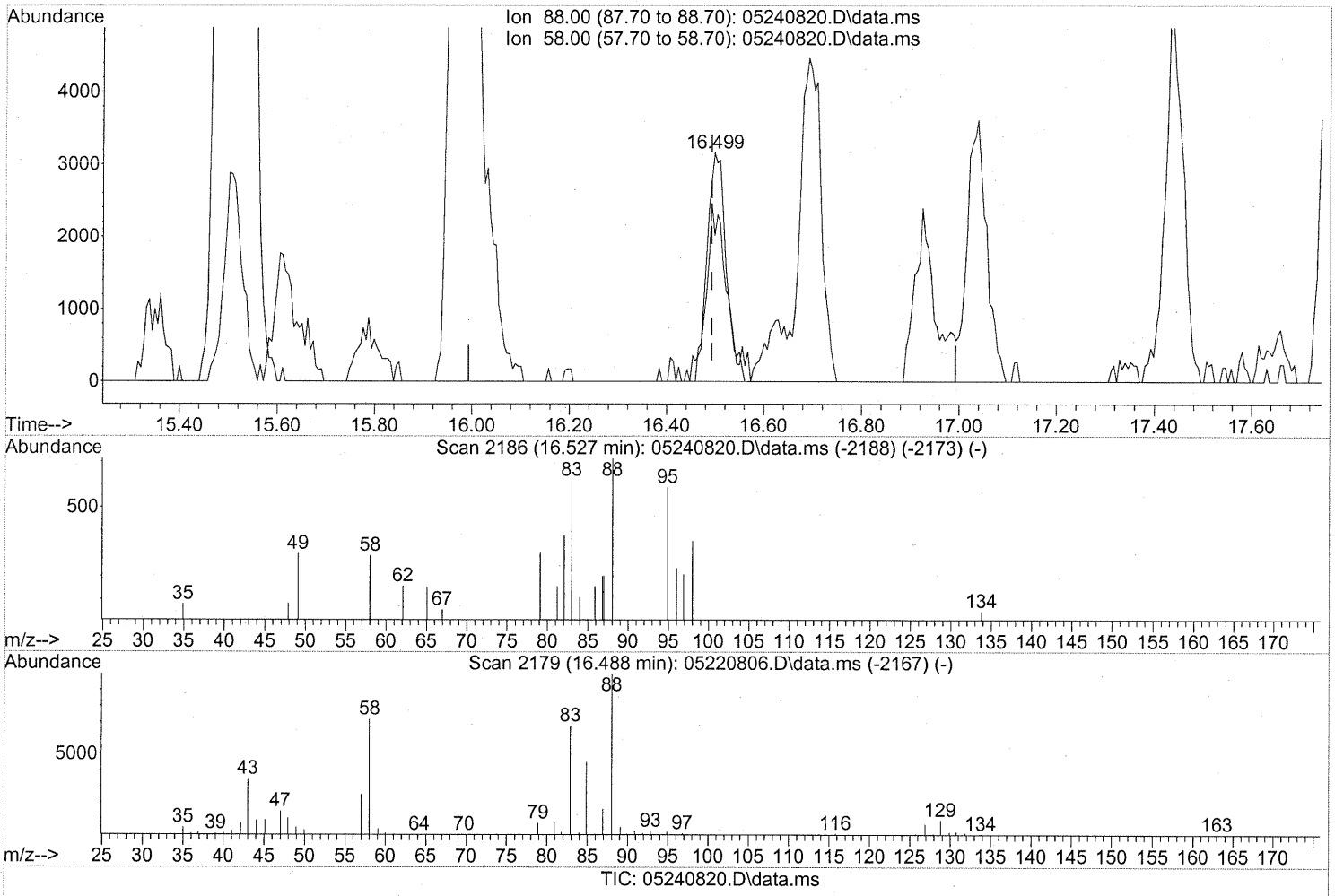
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	79.99
0.00	0.00	0.00
0.00	0.00	0.00

696

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801422-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 09:05:25 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(48) 1,4-Dioxane (T)

16.499min (+0.006) 0.37ng

response 8660

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	79.99
0.00	0.00	0.00
0.00	0.00	0.00

after subst

MA 5/29/08

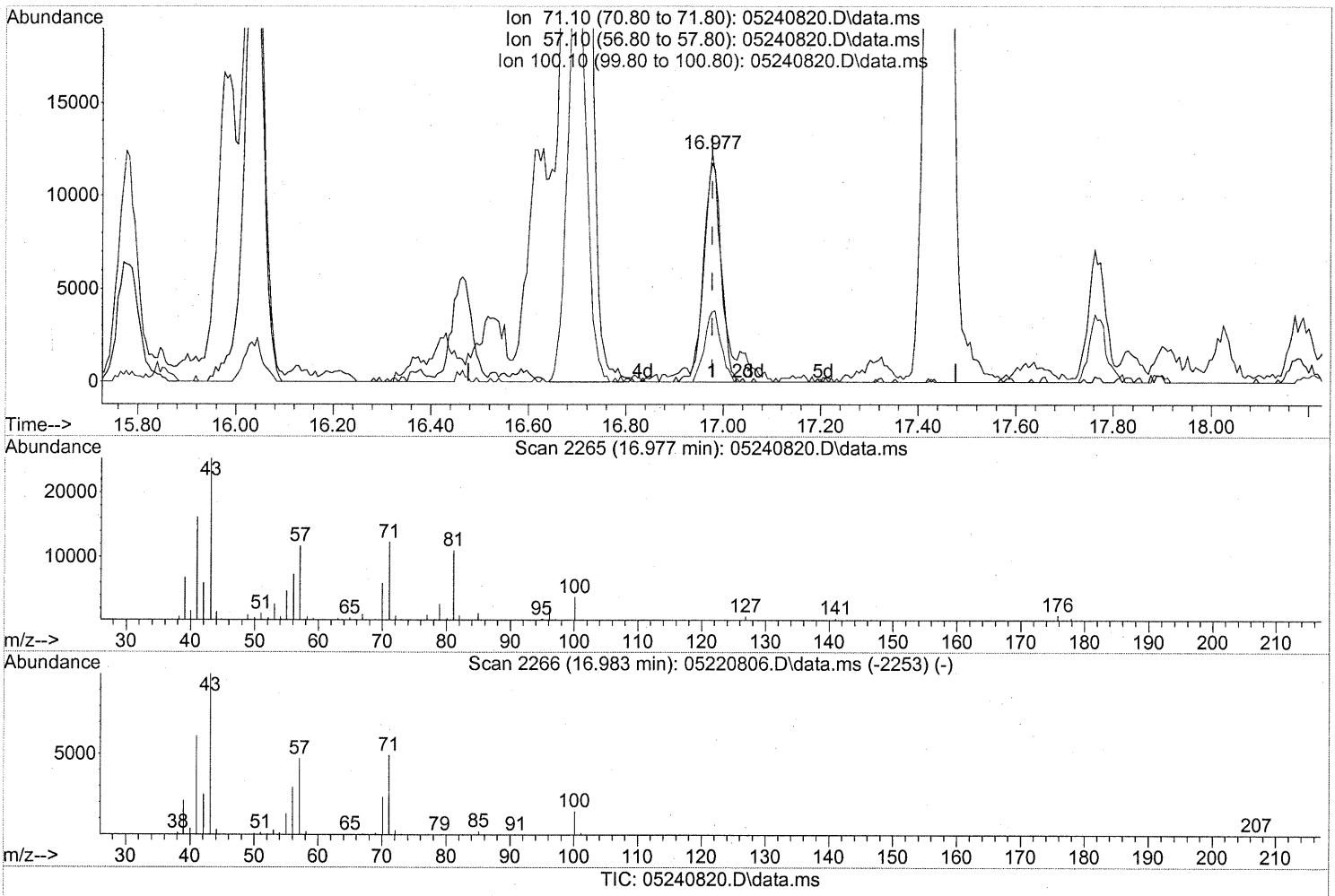
WA 5/30/08

697

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(51) n-Heptane (T)

16.977min (-0.000) 0.89ng

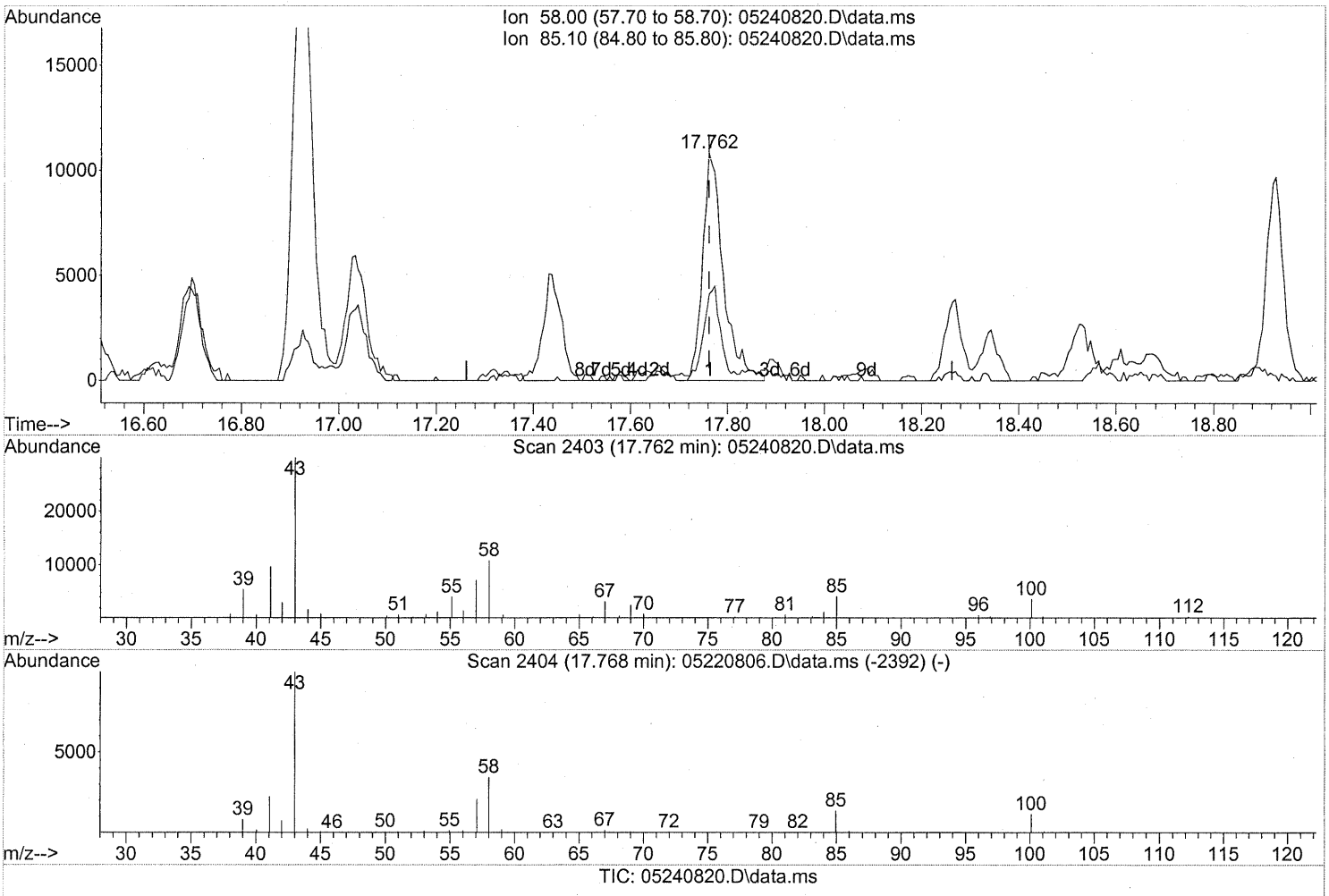
response 29549

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	94.15#
100.10	30.10	30.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

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

17.762min (-0.000) 0.96ng

response 31987

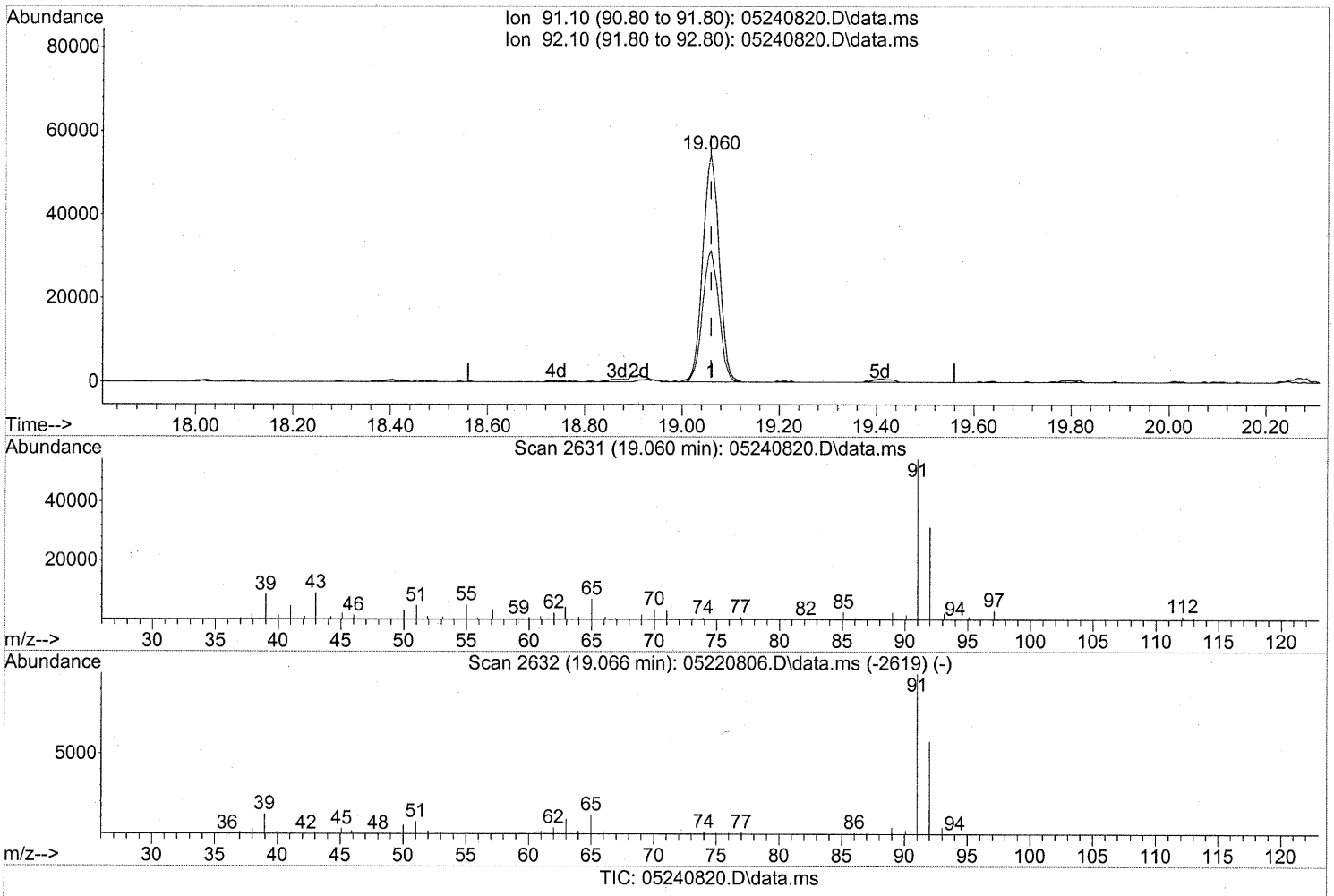
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	34.04
0.00	0.00	0.00
0.00	0.00	0.00

699

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.93ng

response 127566

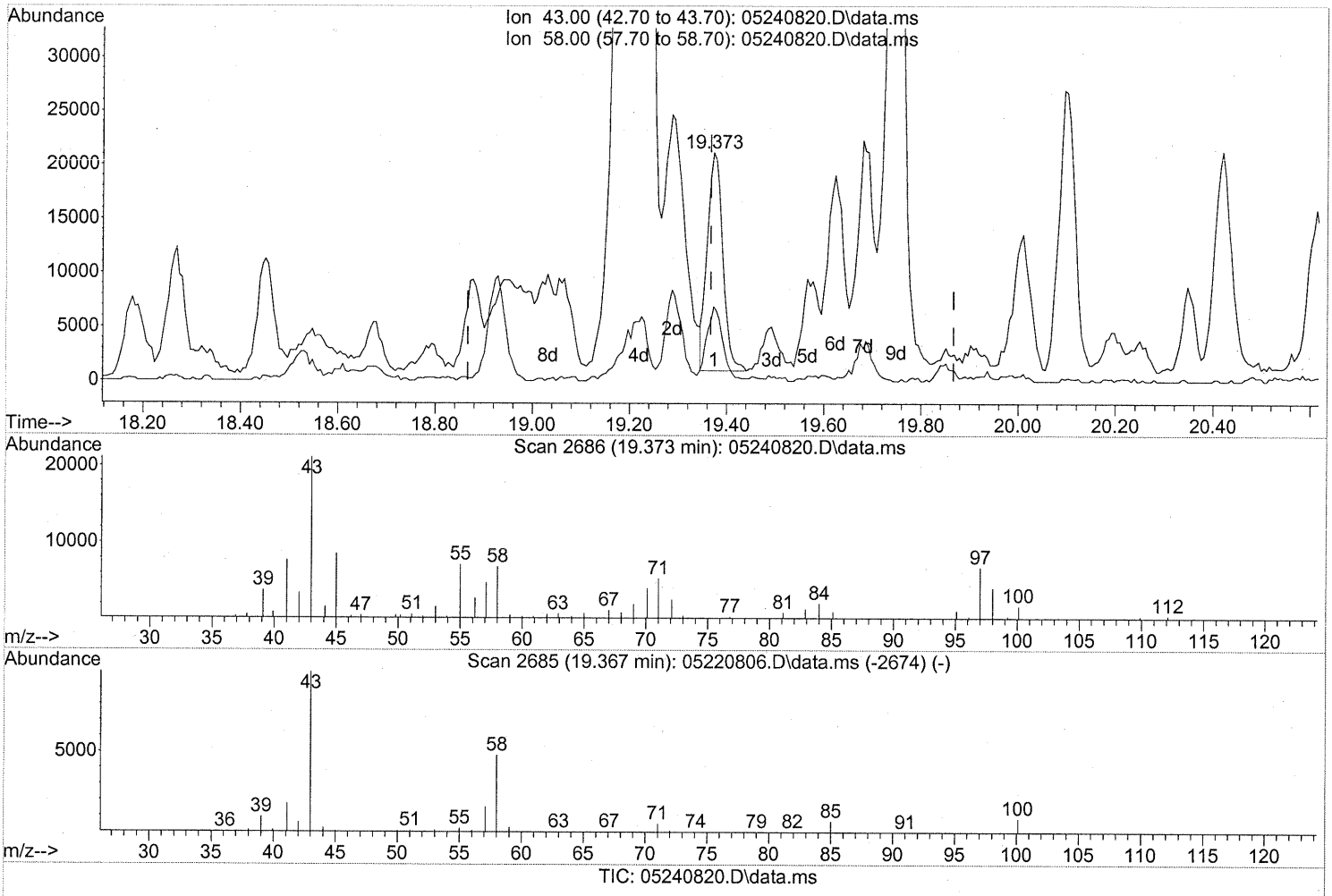
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.71
0.00	0.00	0.00
0.00	0.00	0.00

700

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.47ng

response 44997

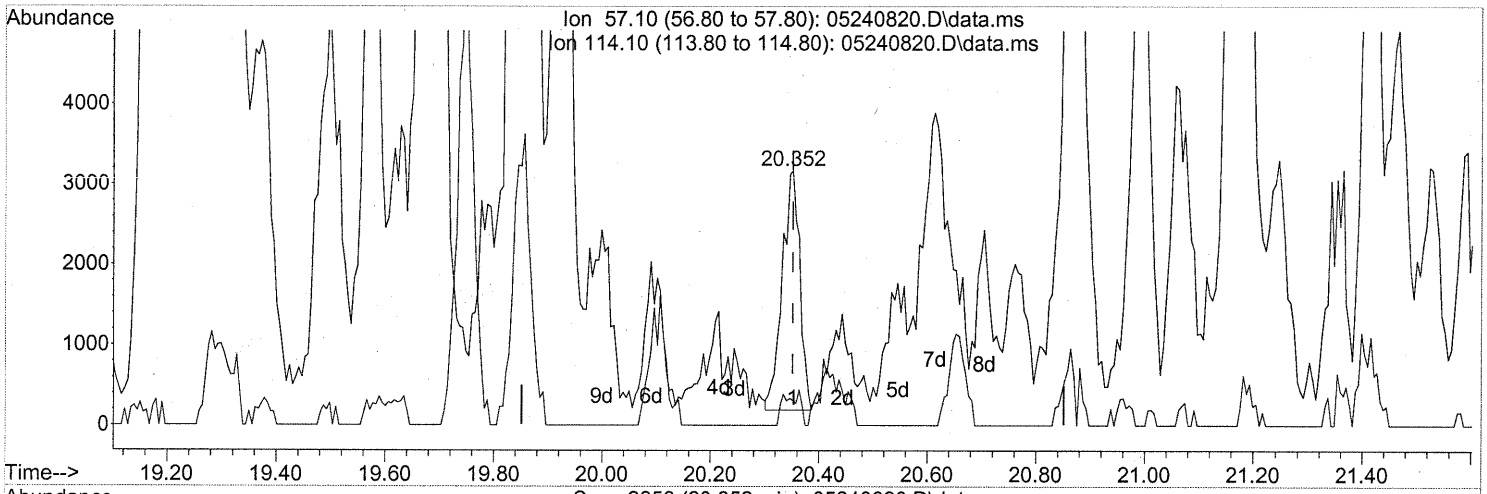
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	35.57#
0.00	0.00	0.00
0.00	0.00	0.00

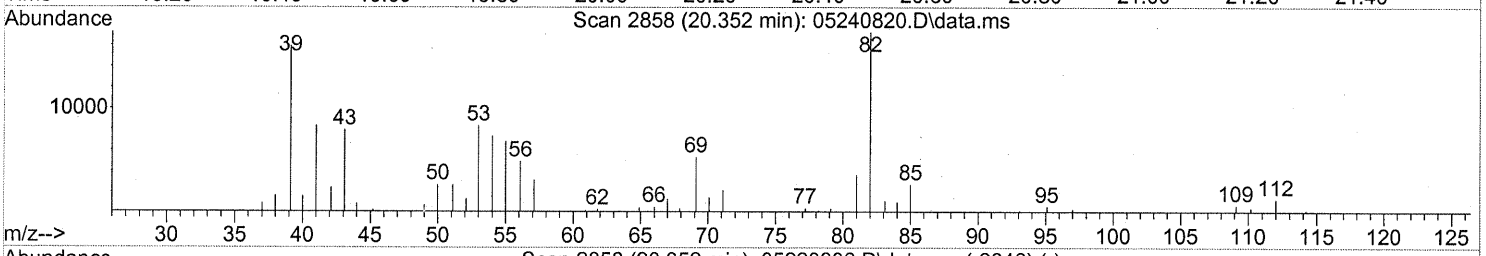
701

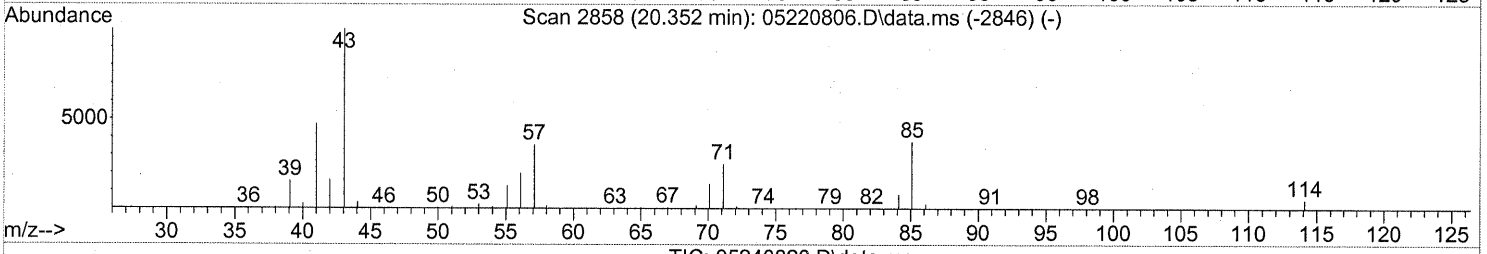
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(63) n-Octane (T)

20.352min (-0.000) 0.22ng

response 6651

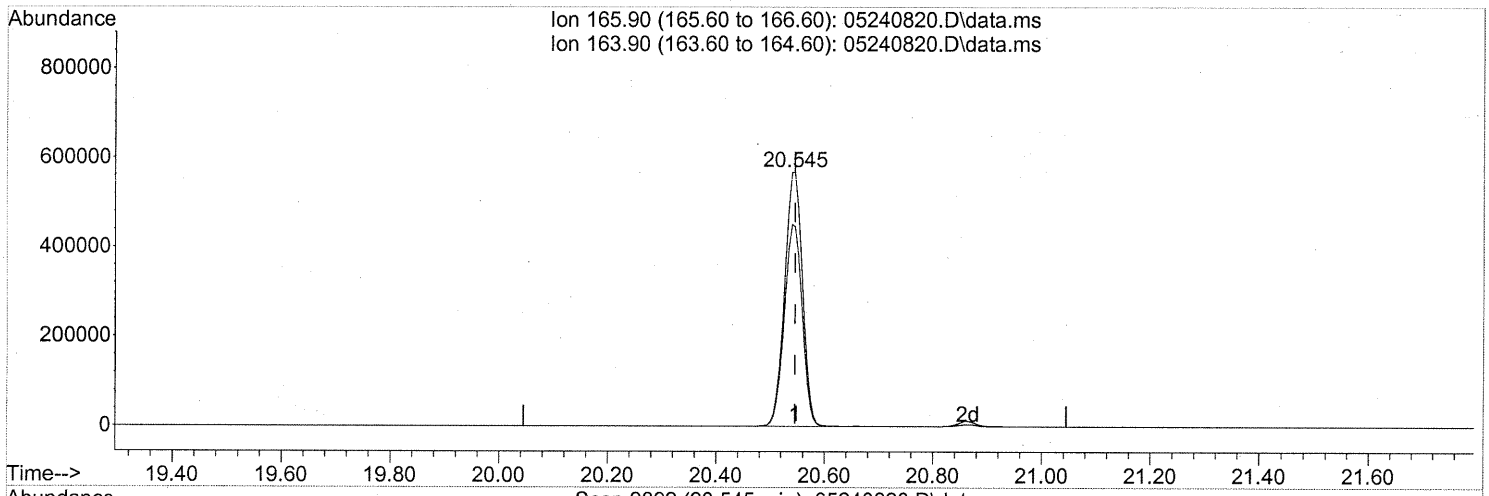
Ion	Exp%	Act%
57.10	100	100
114.10	10.20	13.02
0.00	0.00	0.00
0.00	0.00	0.00

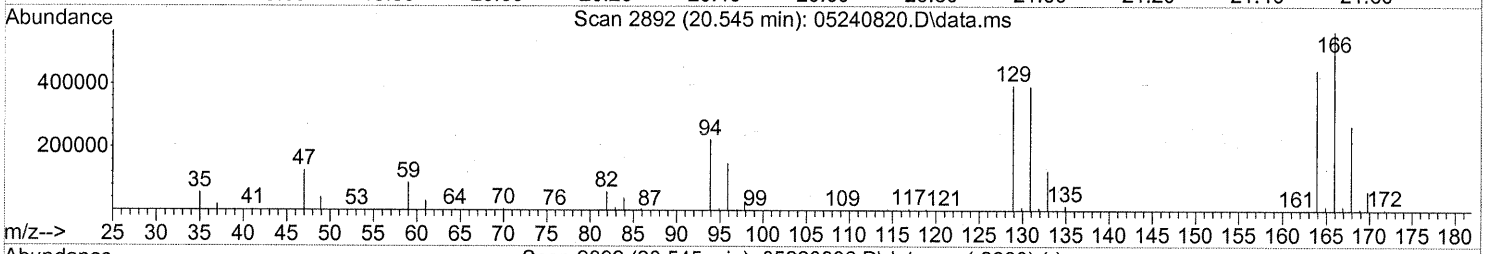
702

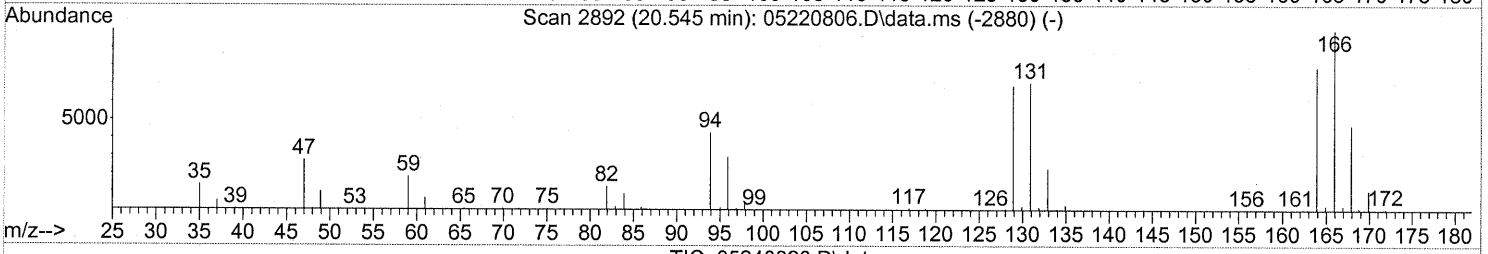
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 31.53ng

response 1284198

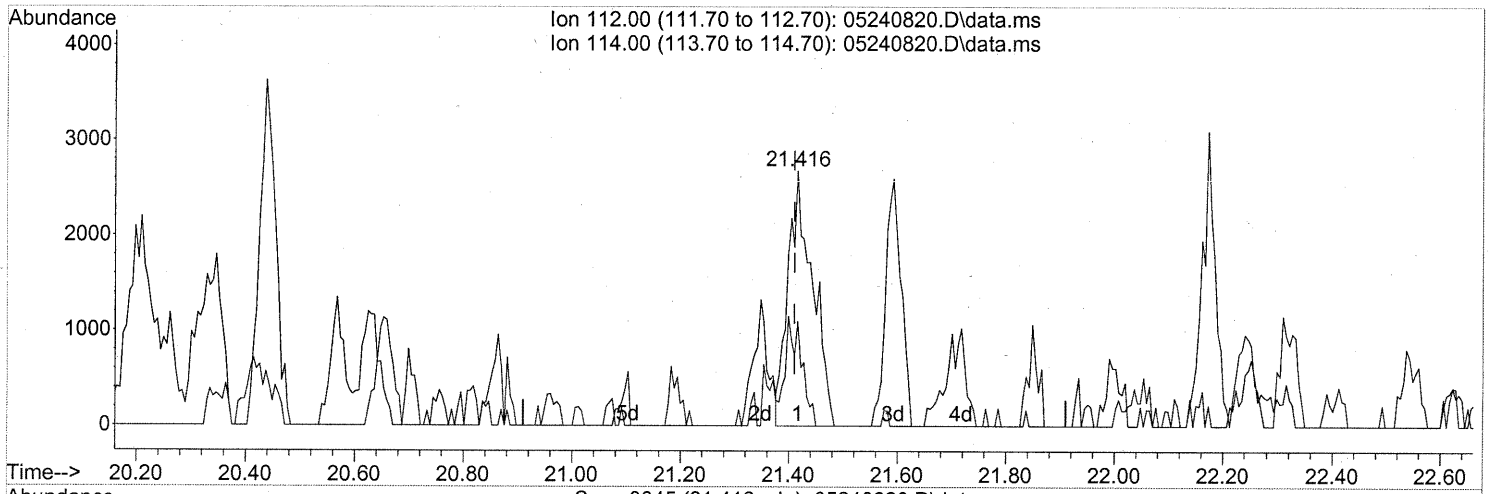
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.37
0.00	0.00	0.00
0.00	0.00	0.00

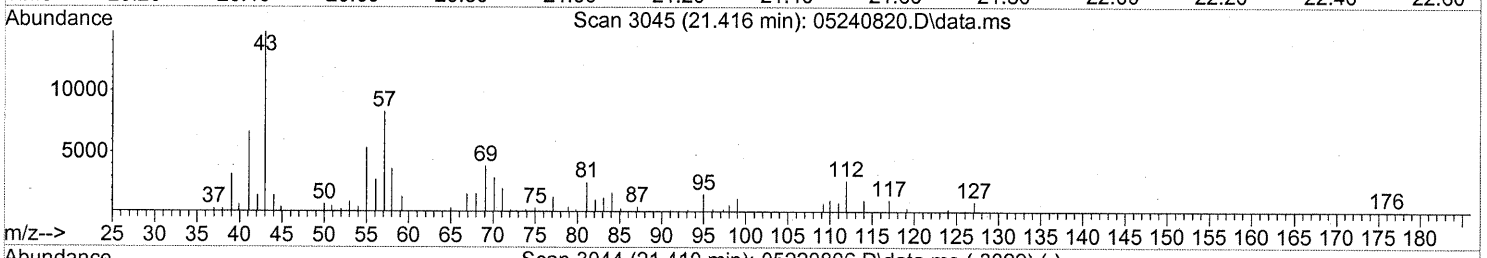
703

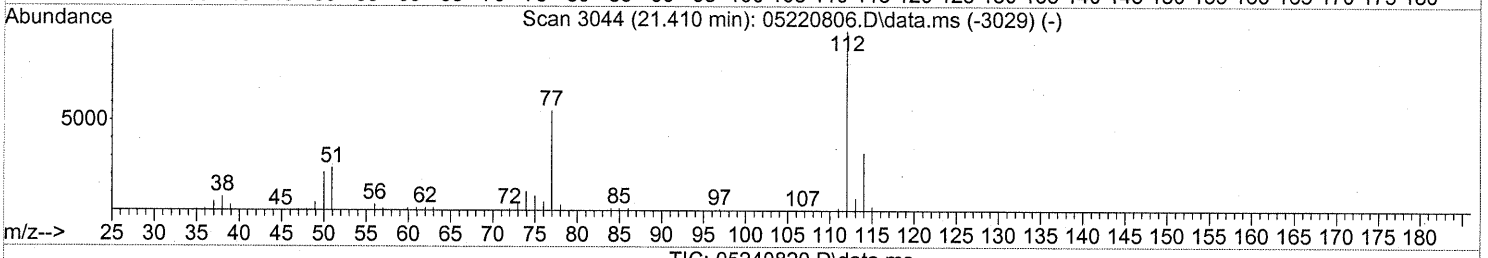
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(65) Chlorobenzene (T)

21.416min (+0.006) 0.09ng

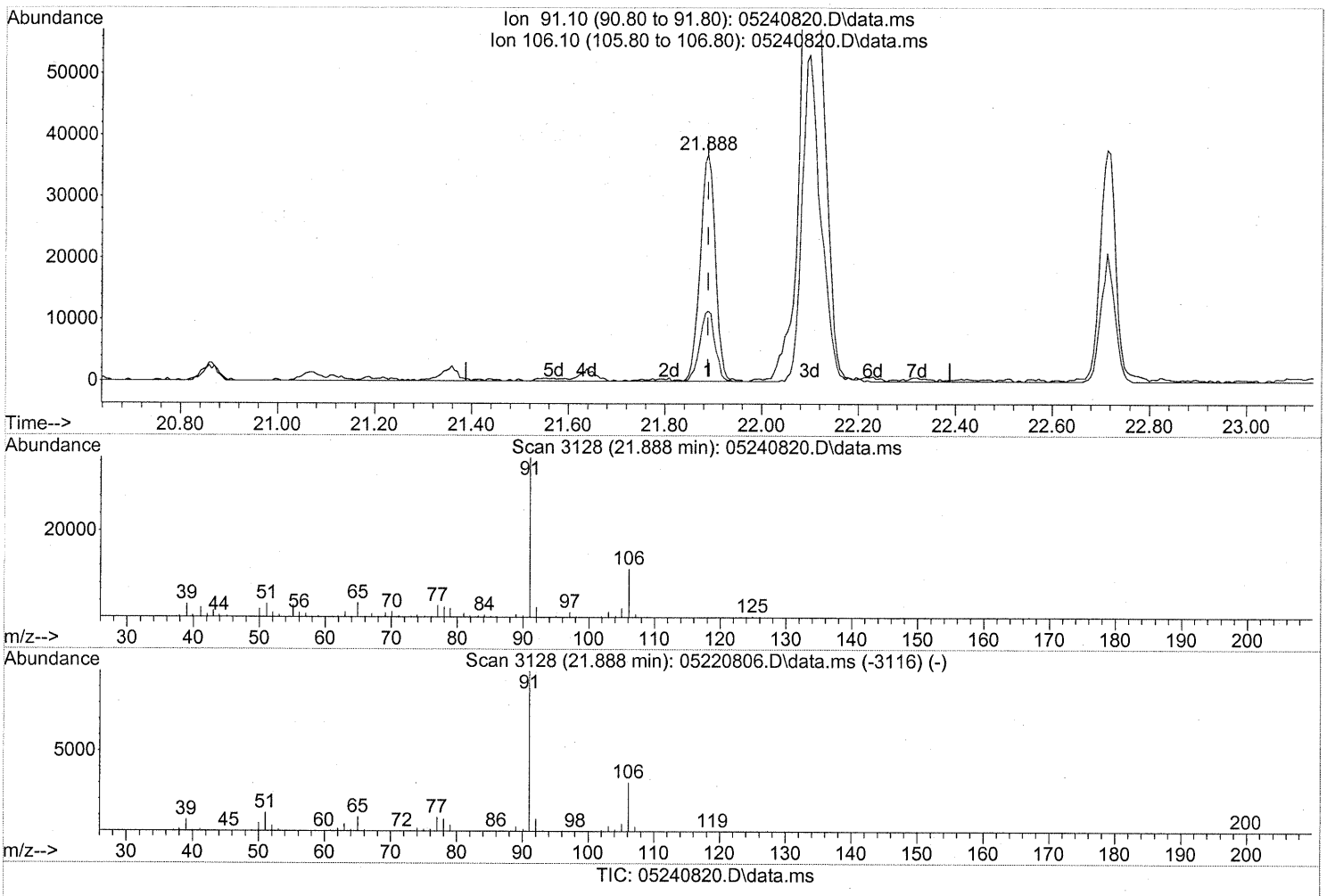
response 8357

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	27.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.51ng

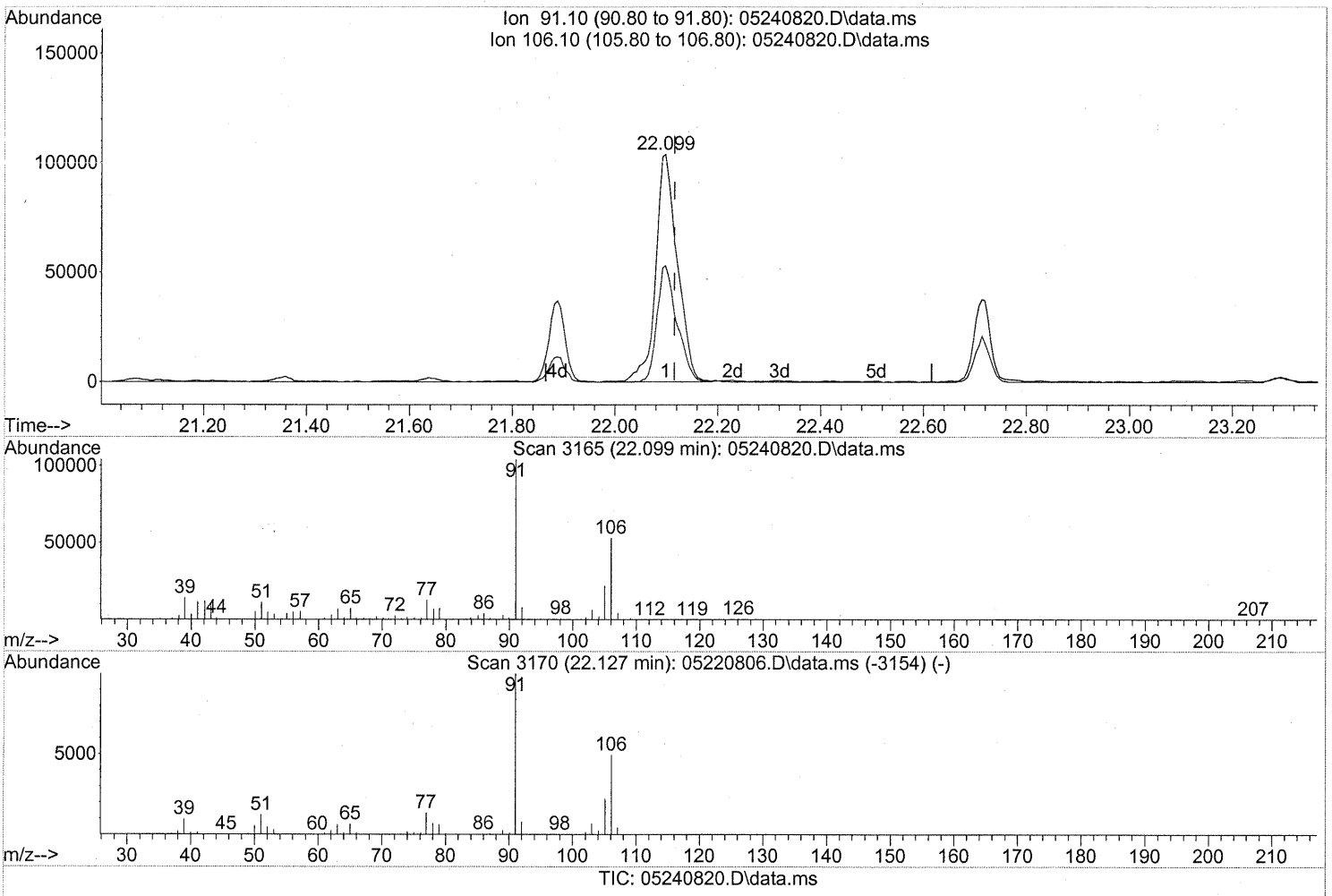
response 80461

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

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

22.099min (-0.017) 2.87ng

response 303031

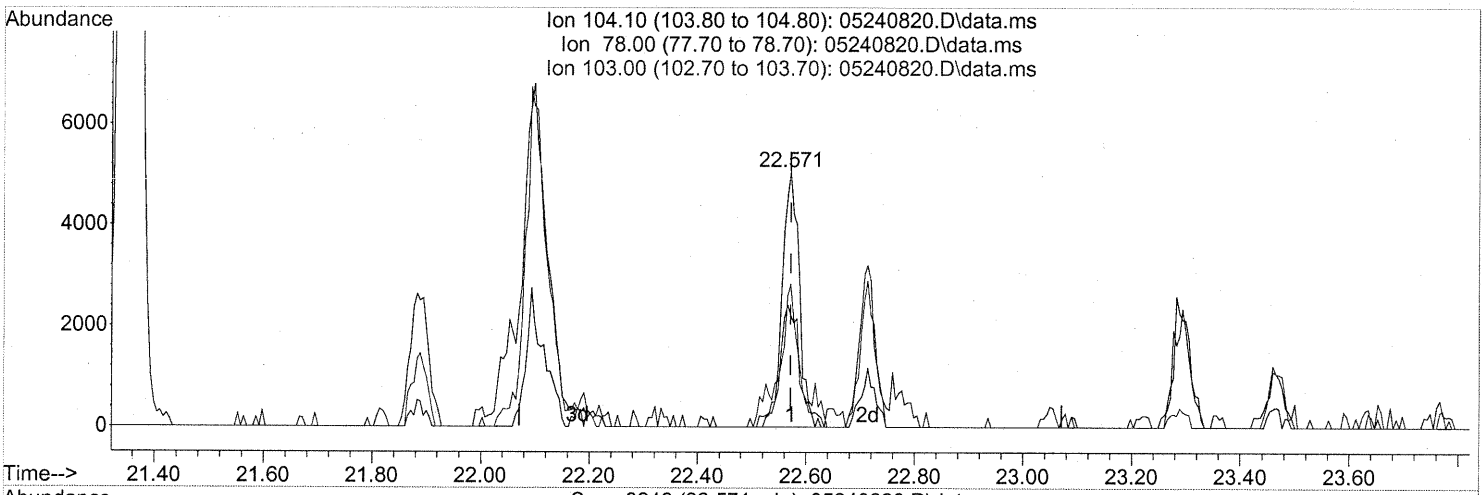
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	47.21
0.00	0.00	0.00
0.00	0.00	0.00

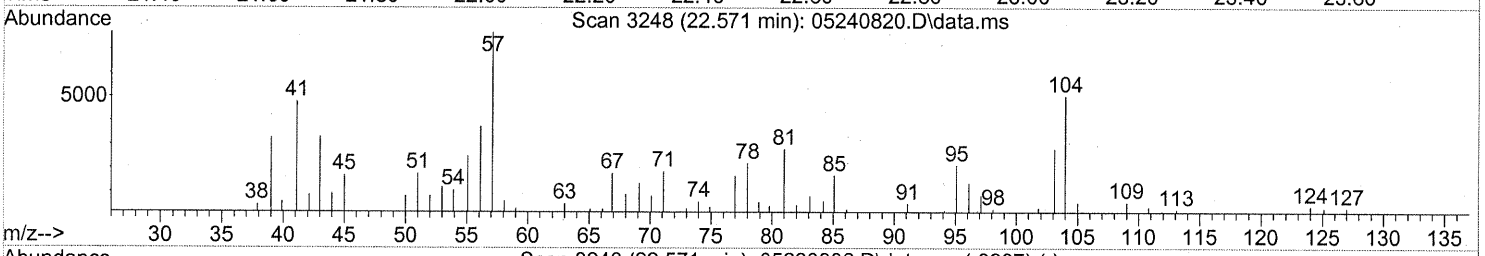
706

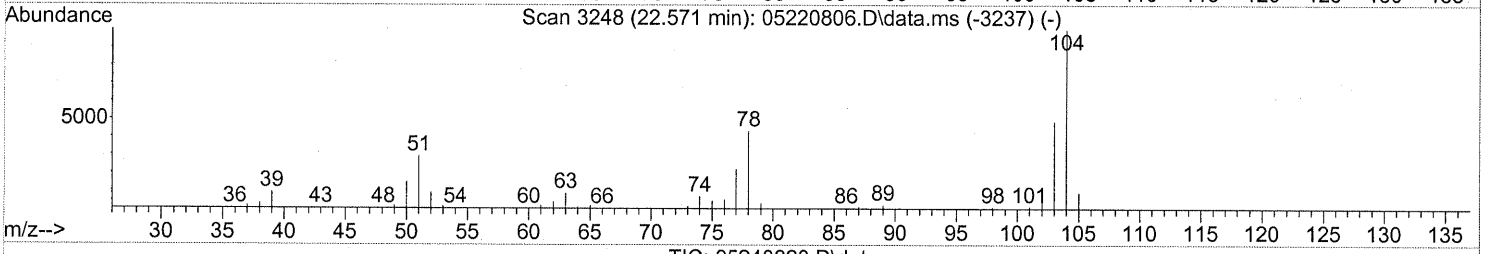
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(69) Styrene (T)

22.571min (-0.000) 0.12ng

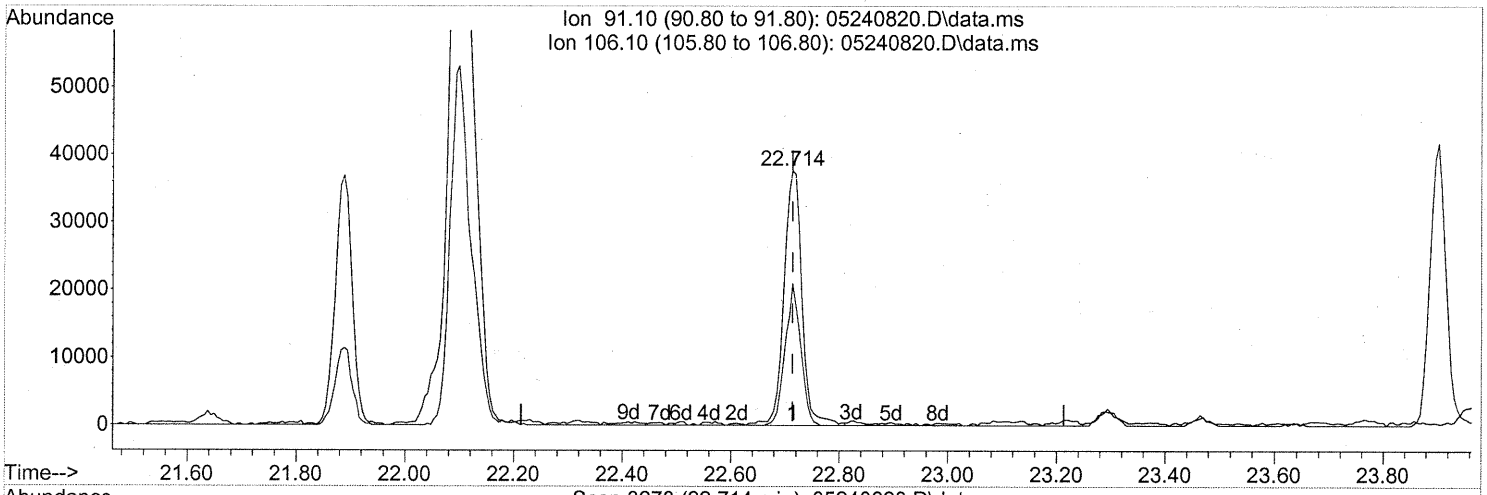
response 11018

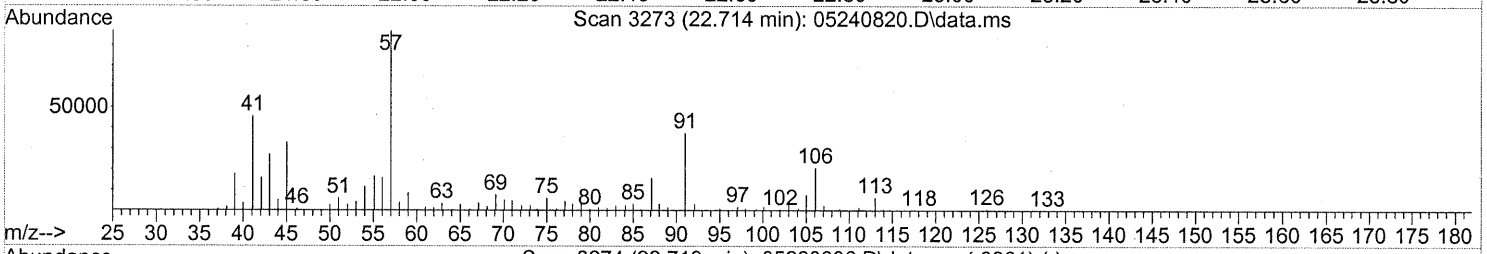
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	56.32
103.00	47.10	41.49
0.00	0.00	0.00

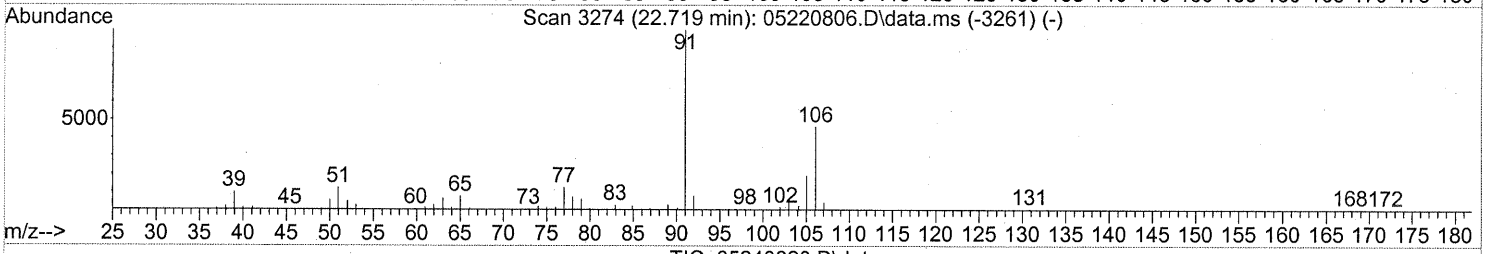
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.76ng

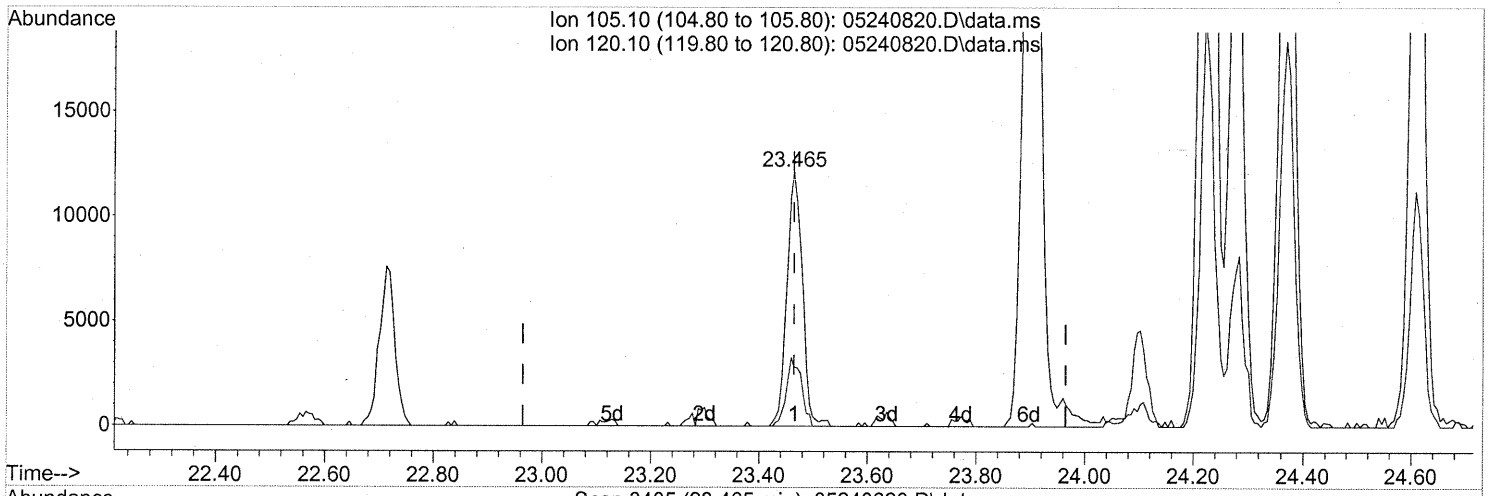
response 86090

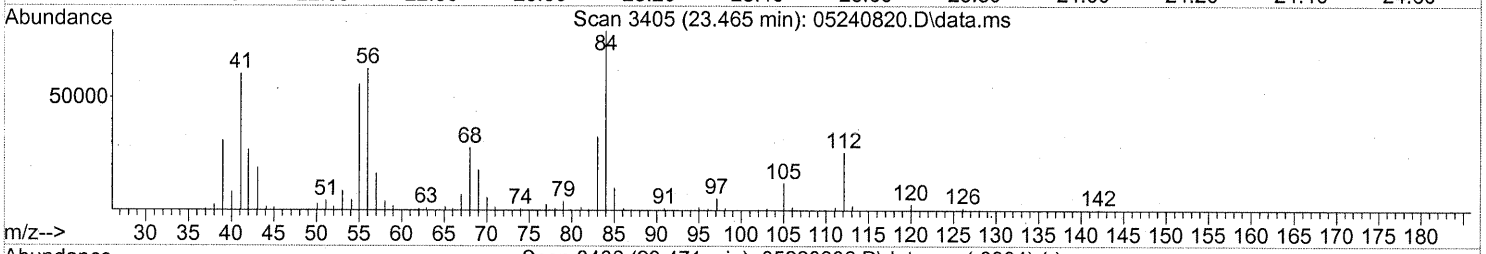
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	48.19
0.00	0.00	0.00
0.00	0.00	0.00

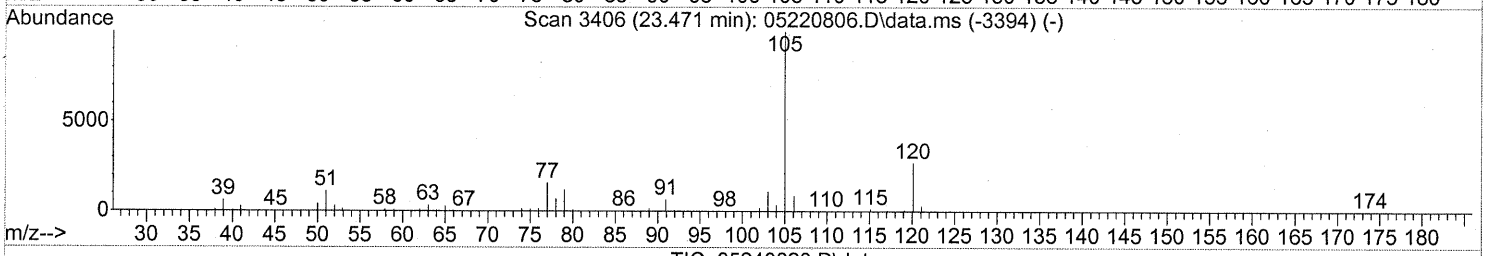
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(74) Cumene (T)

23.465min (-0.000) 0.16ng

response 24064

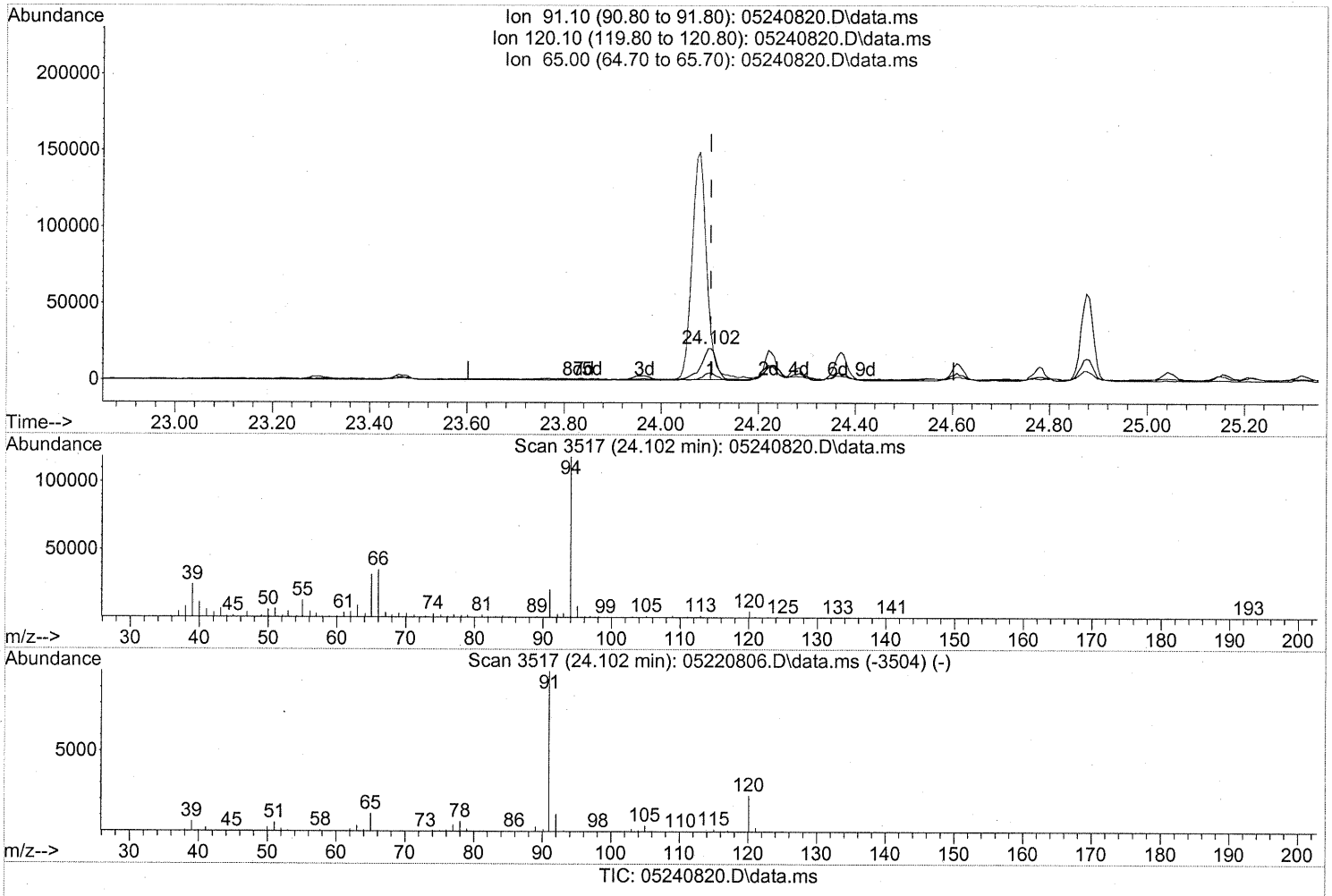
Ion	Exp%	Act%
105.10	100	100
120.10	26.30	26.11
0.00	0.00	0.00
0.00	0.00	0.00

709

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(76) n-Propylbenzene (T)

24.102min (-0.000) 0.23ng

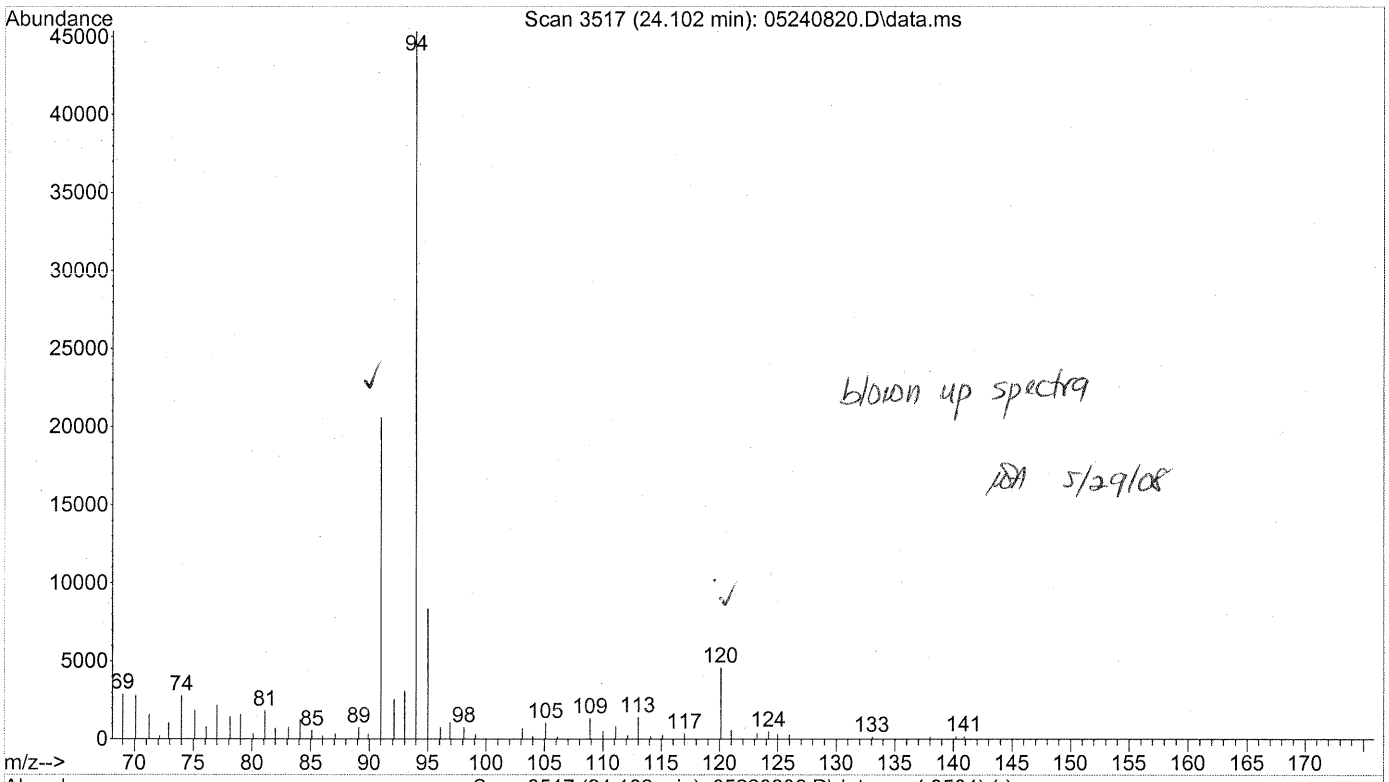
response 45333

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.35
65.00	11.40	0.00
0.00	0.00	0.00

see blown-up spectra

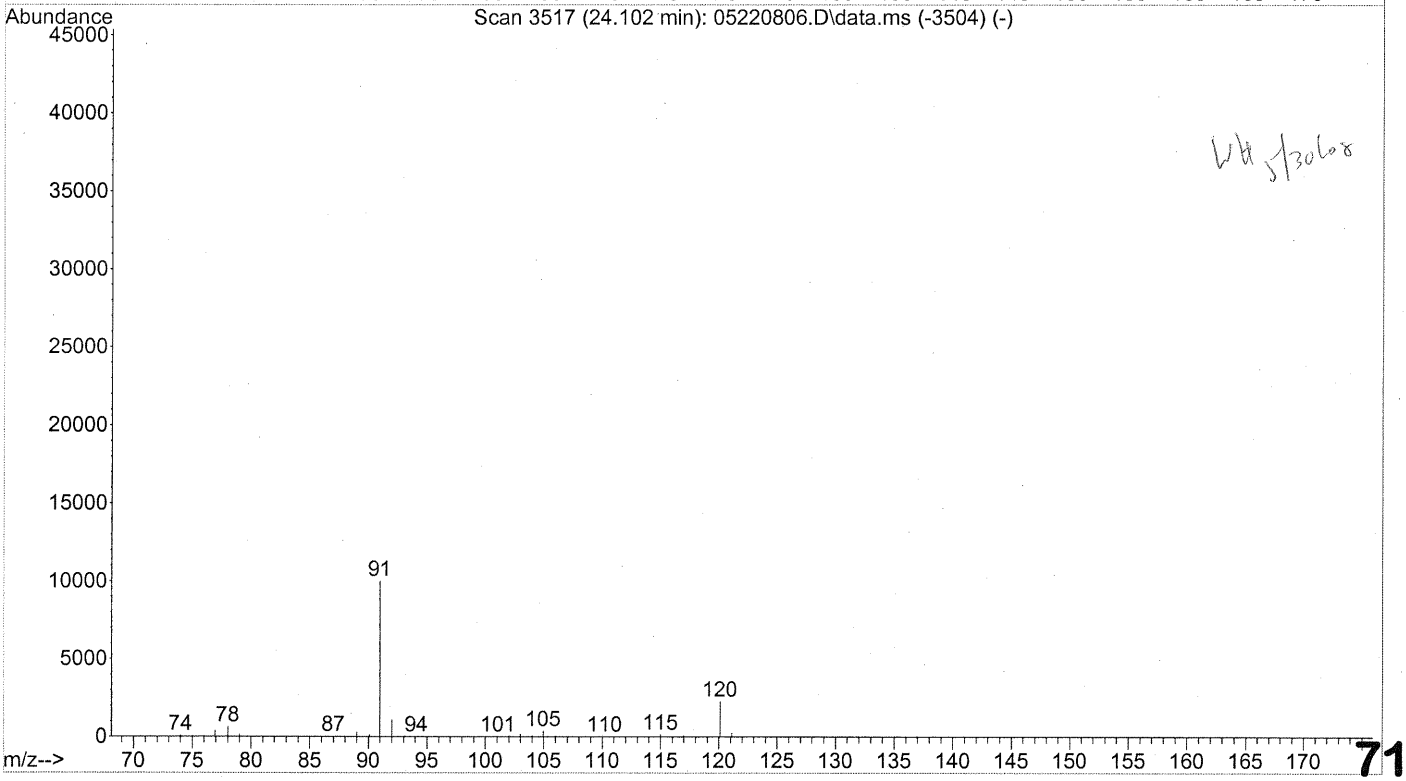
710

File :J:\MS13\DATA\2008_05\24\05240820.D
Operator : WA
Acquired : 24 May 2008 20:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-013 (1000ml)
Misc Info : ENSR SG85B-05 (-3.0, 3.5)
Vial Number: 17



blown up spectra

DH 5/29/08

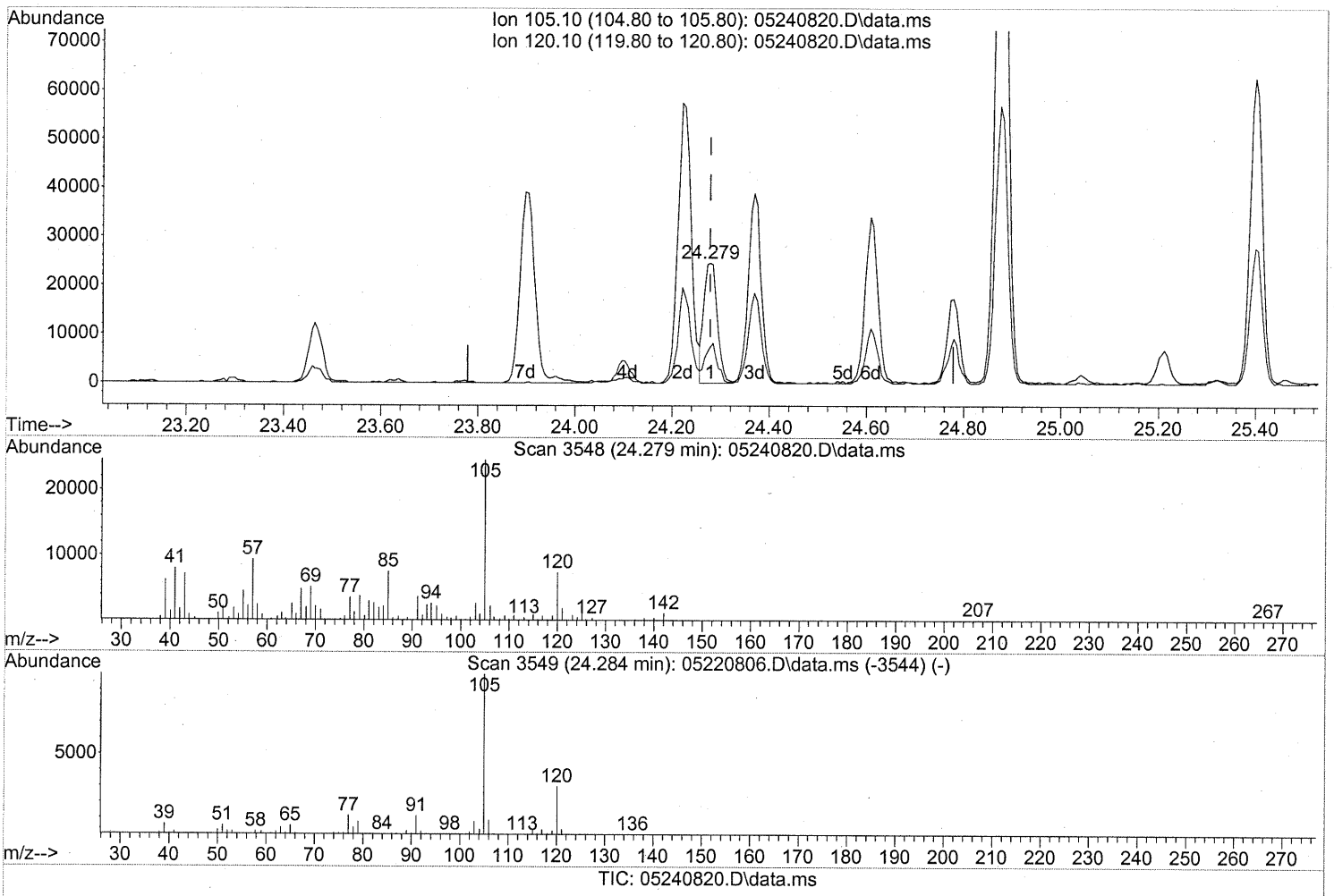


VH 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.31ng

response 47377

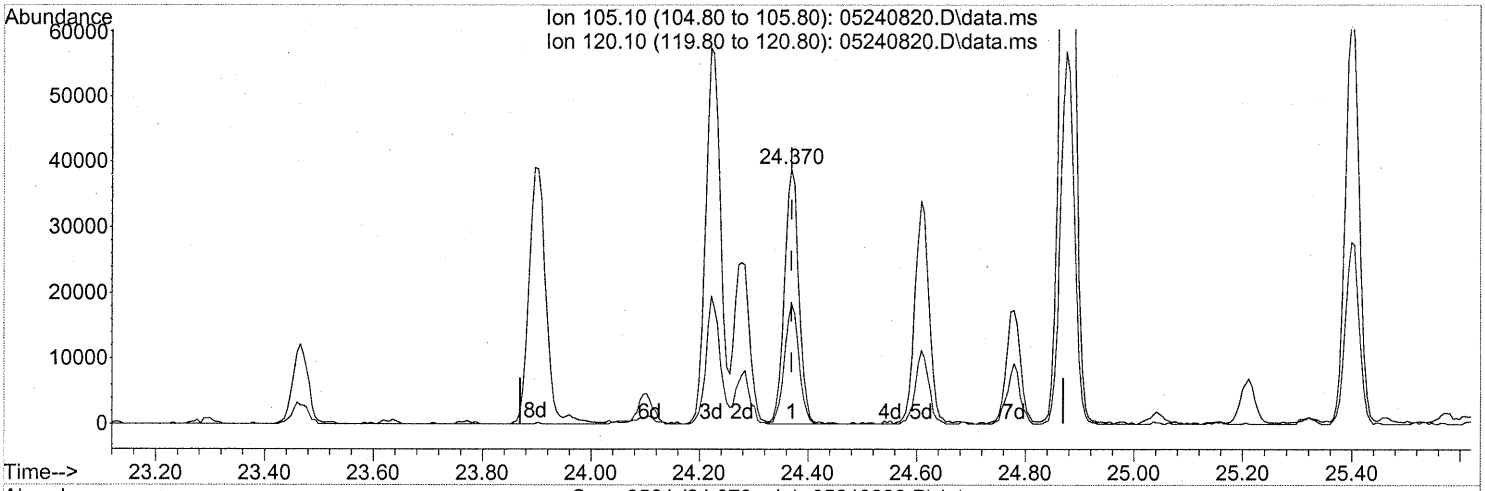
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.94
0.00	0.00	0.00
0.00	0.00	0.00

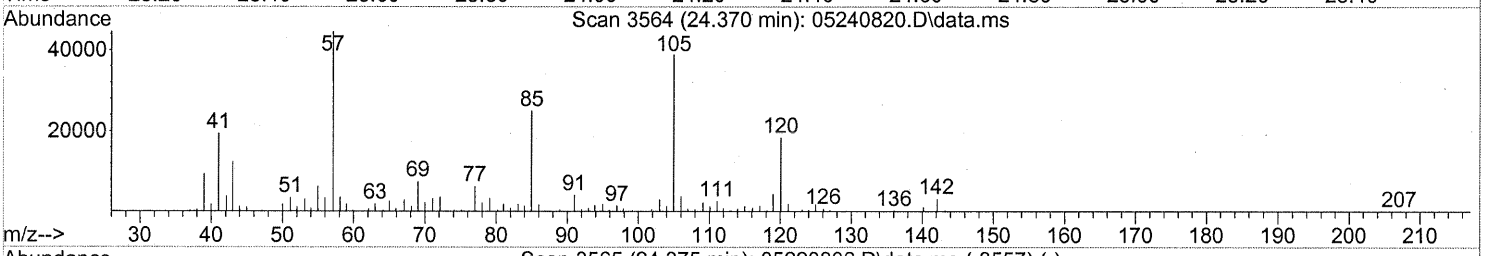
712

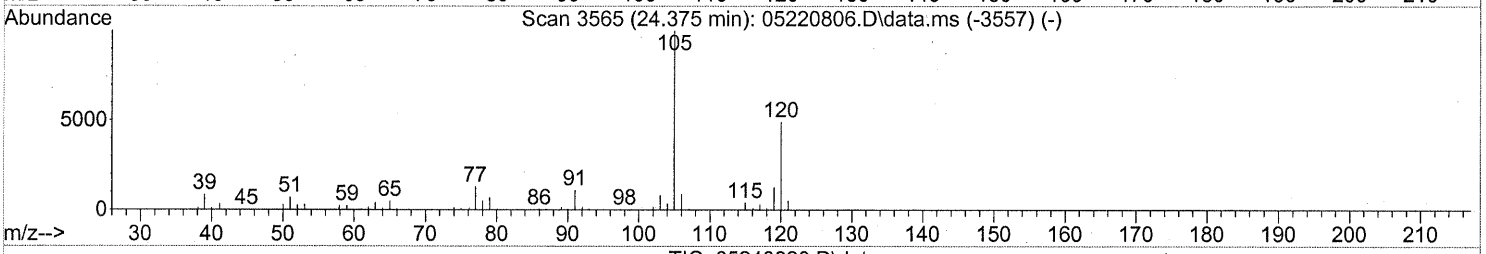
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

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

24.370min (-0.000) 0.53ng

response 71703

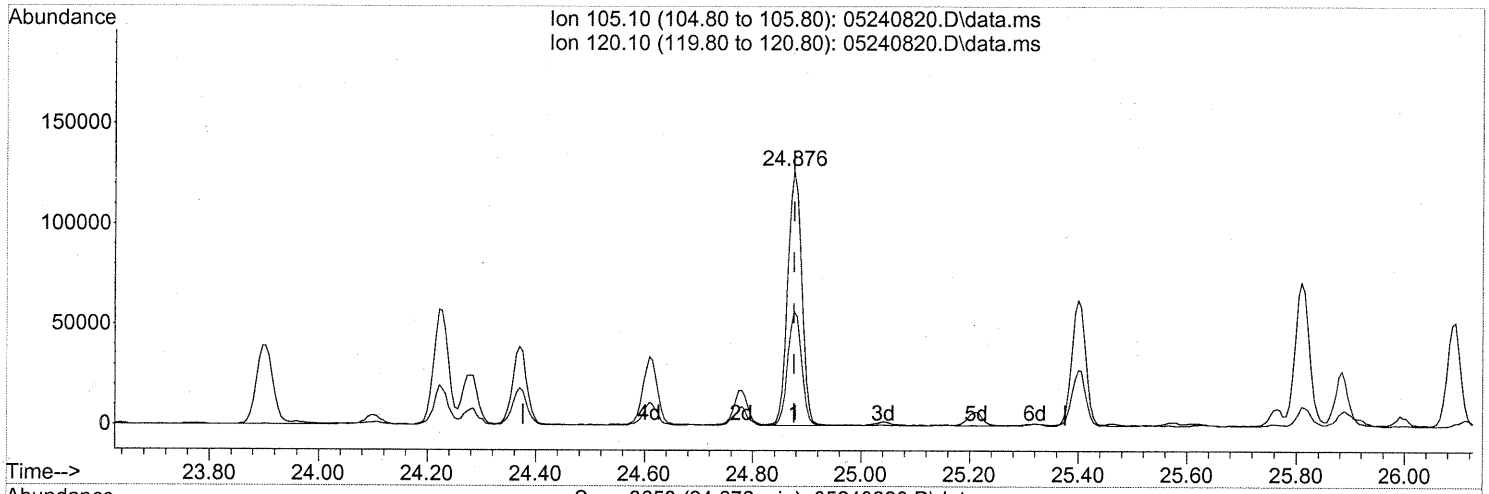
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.23
0.00	0.00	0.00
0.00	0.00	0.00

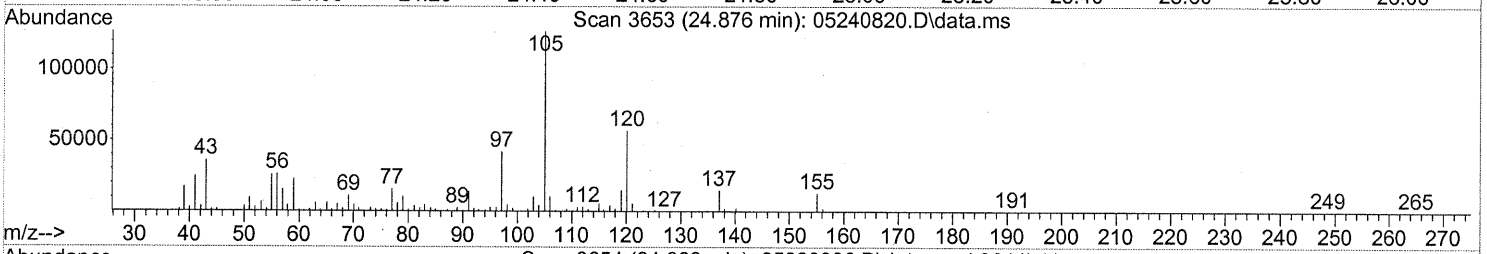
713

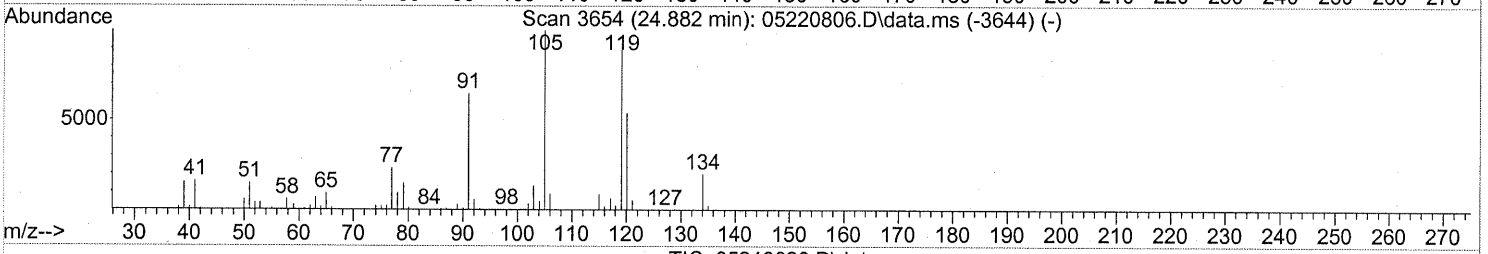
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

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

24.876min (-0.000) 1.66ng

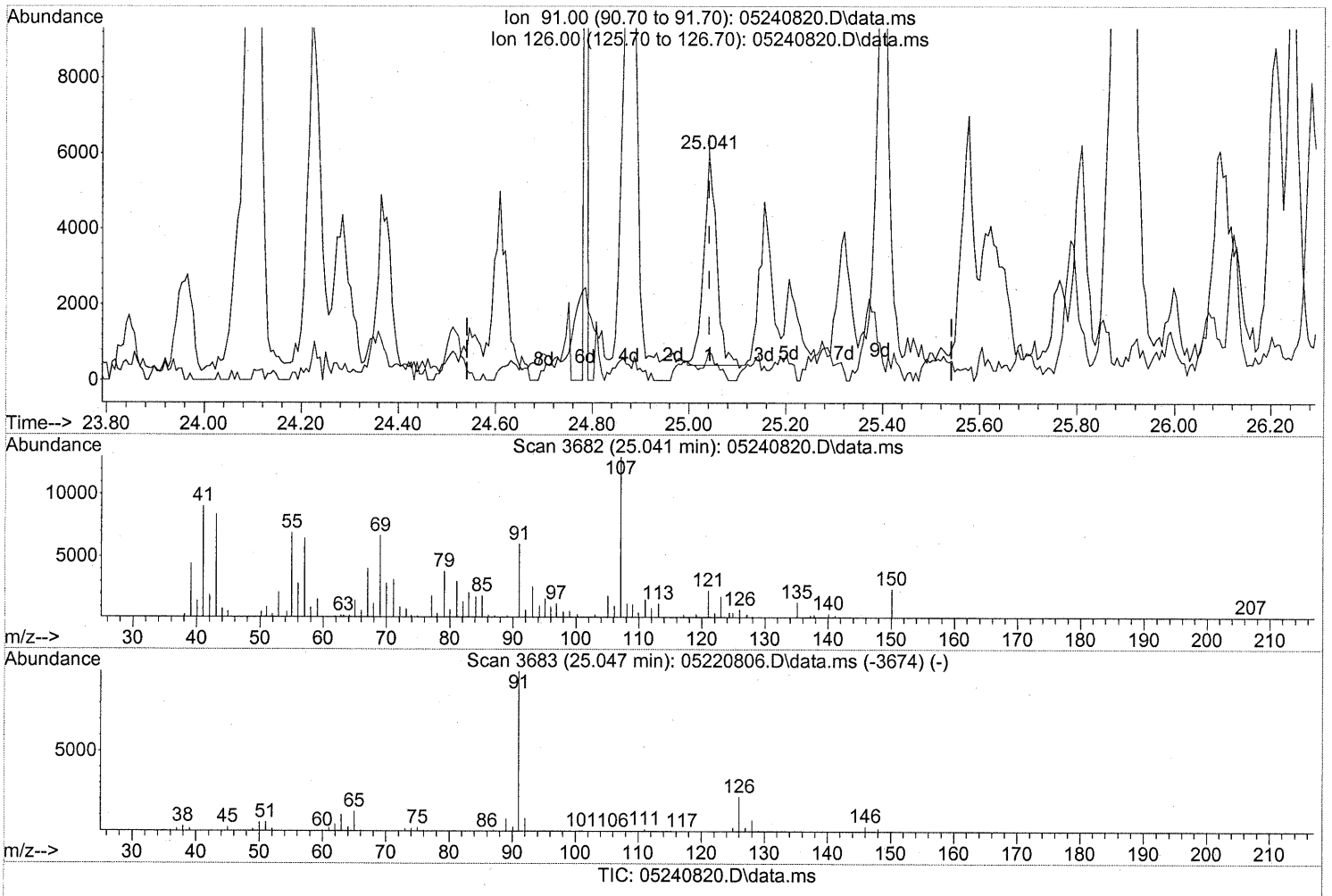
response 229884

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	43.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(84) Benzyl Chloride (T)

25.041min (-0.000) 0.11ng

response 10273

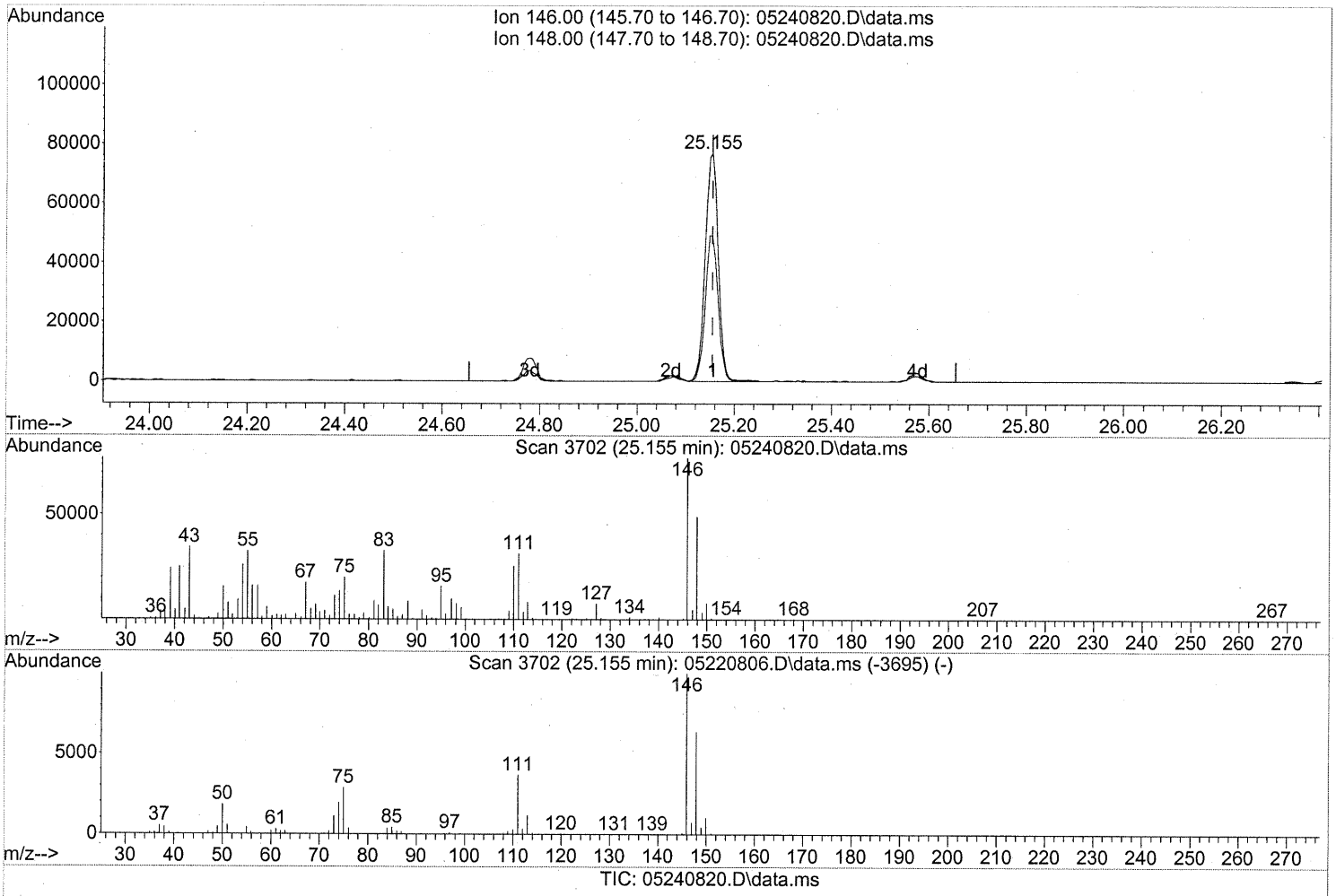
Ion	Exp%	Act%
91.00	100	100
126.00	22.50	11.93
0.00	0.00	0.00
0.00	0.00	0.00

715

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.71ng

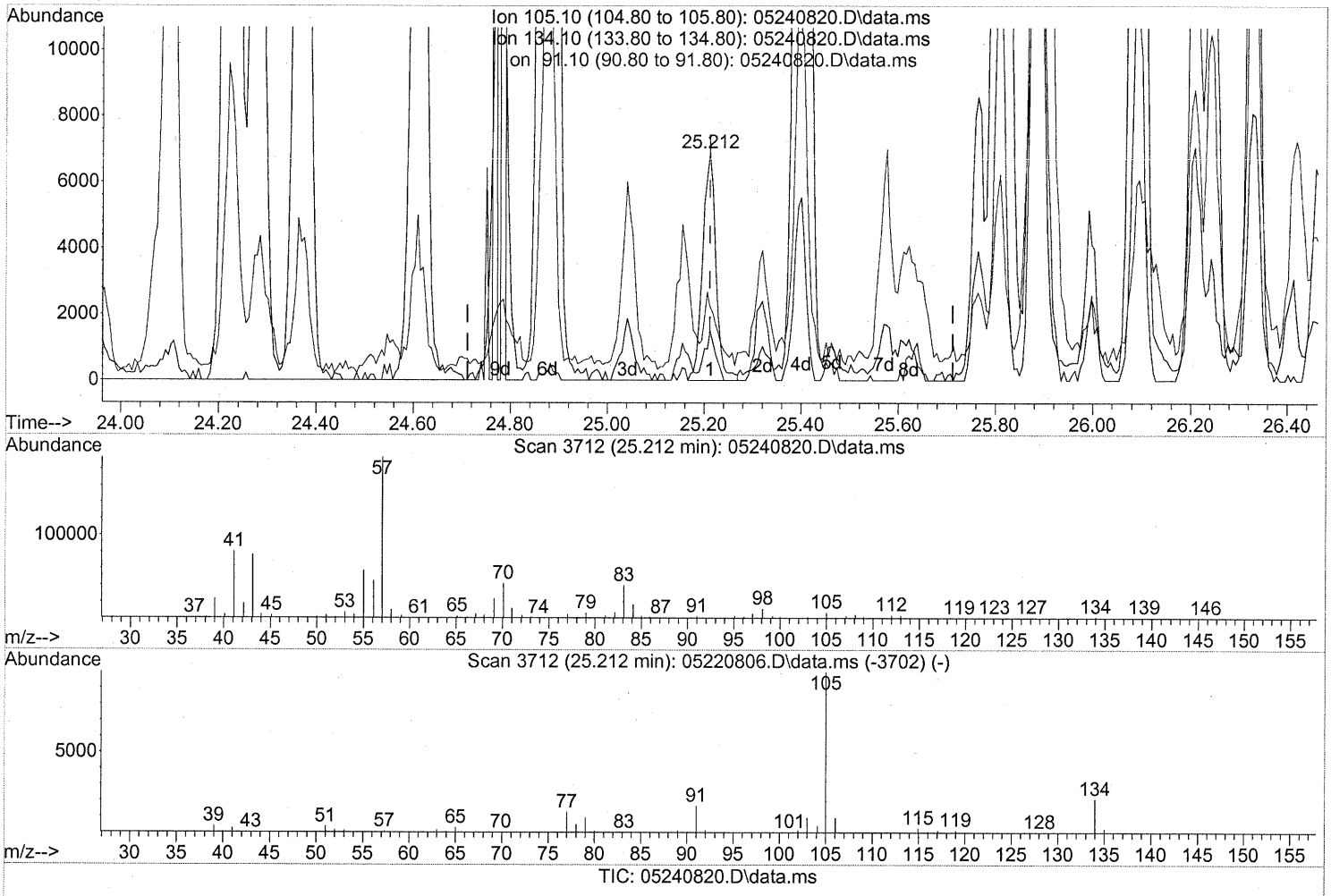
response 143693

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.07ng

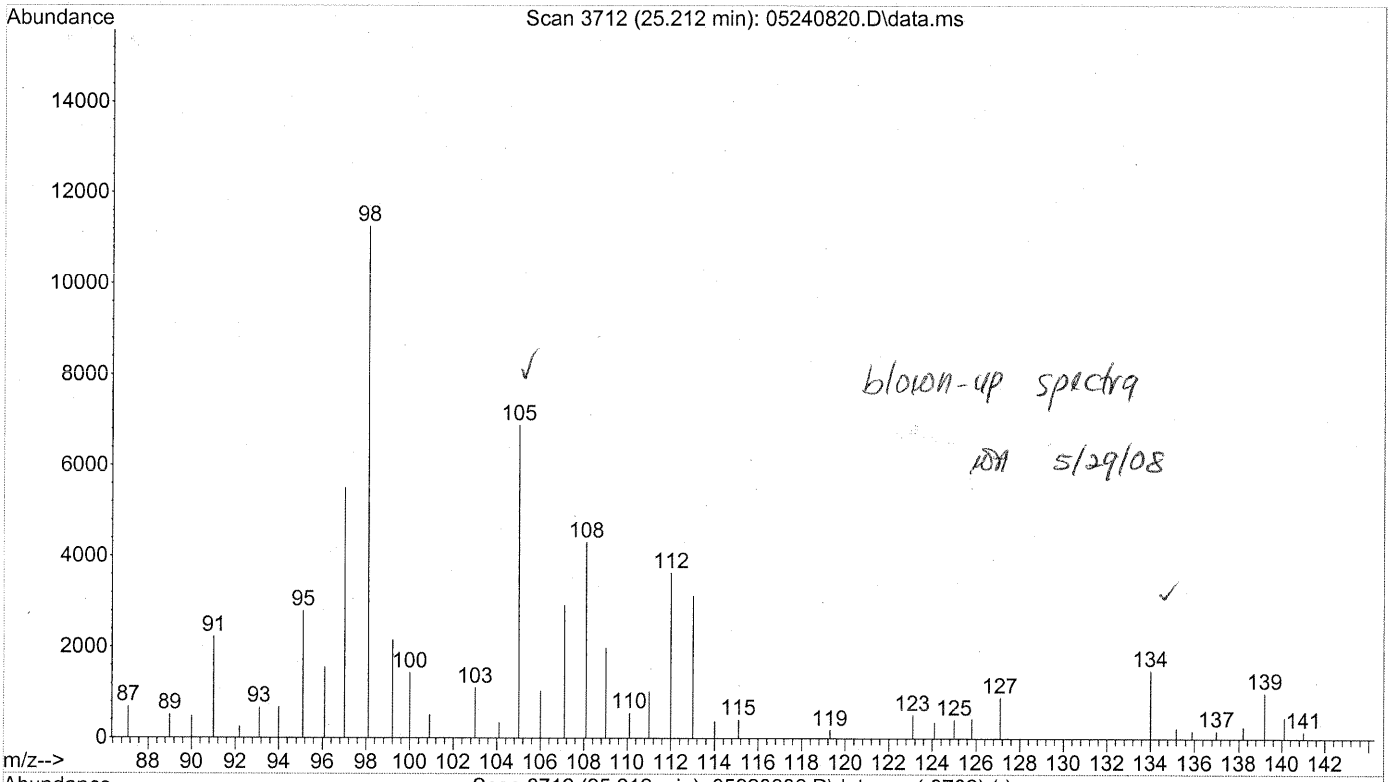
response 12975

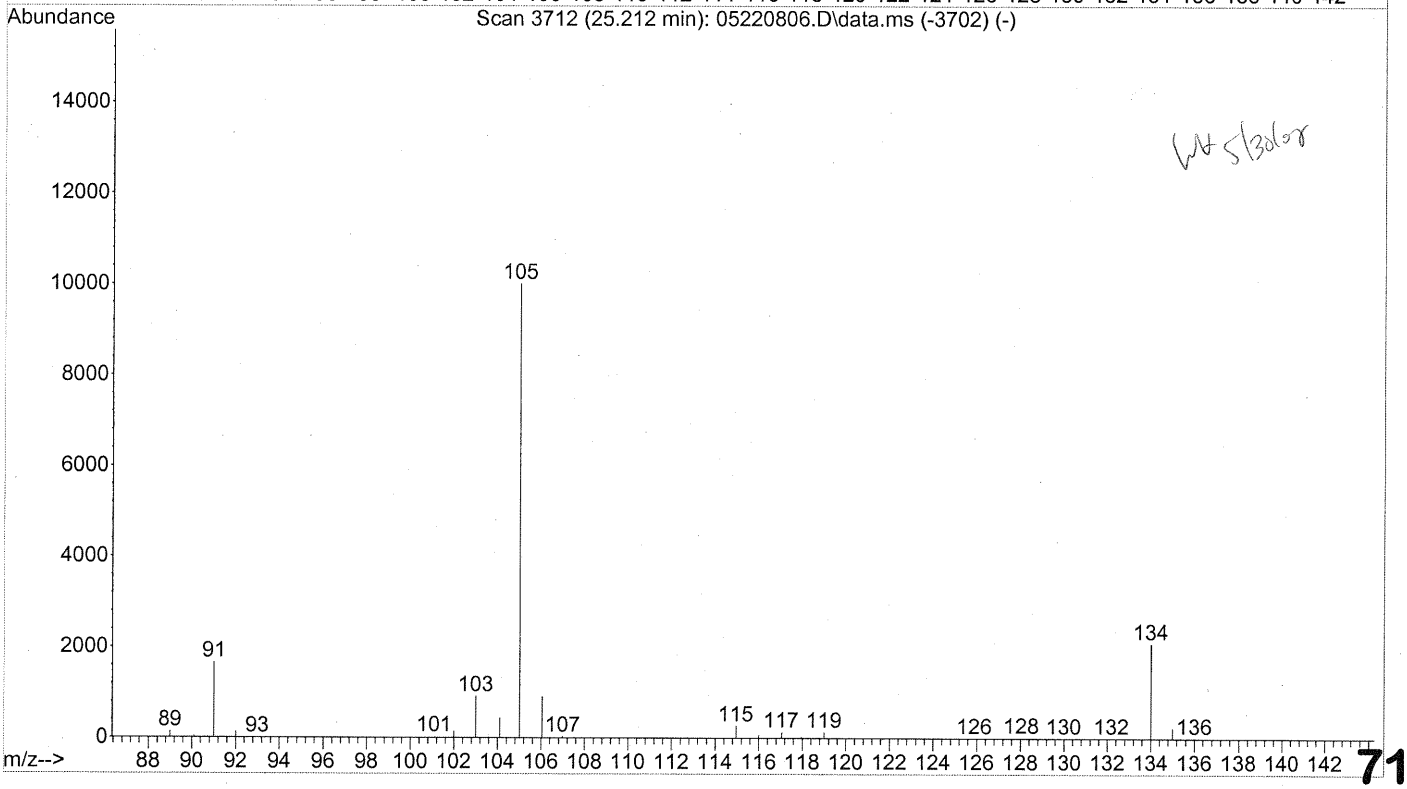
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	18.22
91.10	14.60	31.65
0.00	0.00	0.00

see blown-up

717

File :J:\MS13\DATA\2008_05\24\05240820.D
Operator : WA
Acquired : 24 May 2008 20:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801422-013 (1000ml)
Misc Info : ENSR SG85B-05 (-3.0, 3.5)
Vial Number: 17

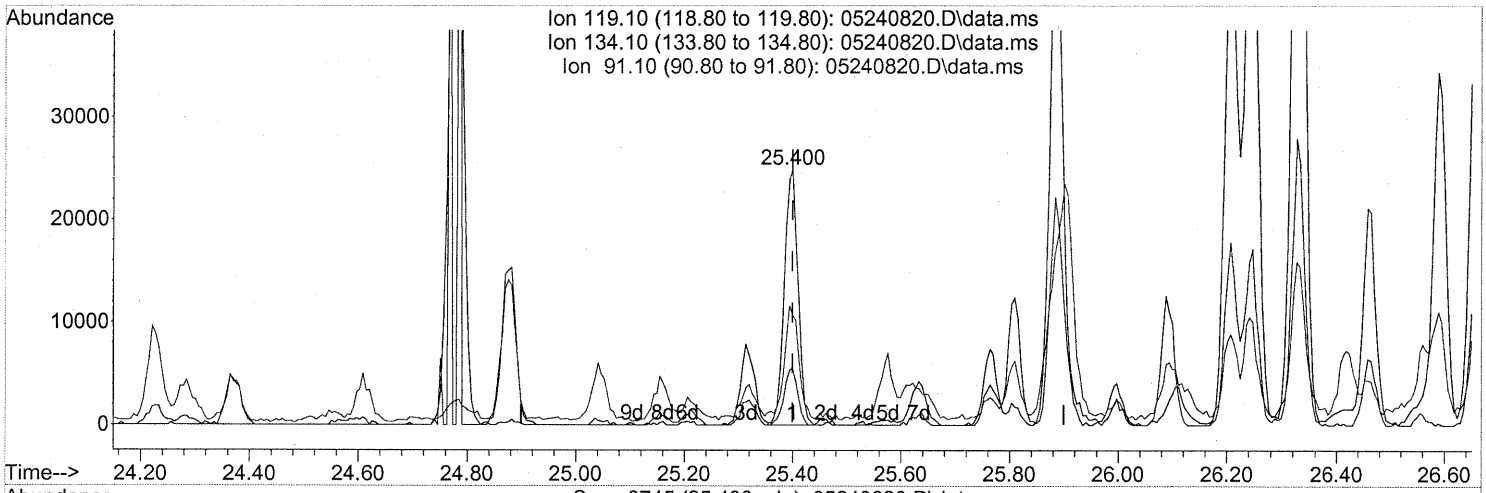


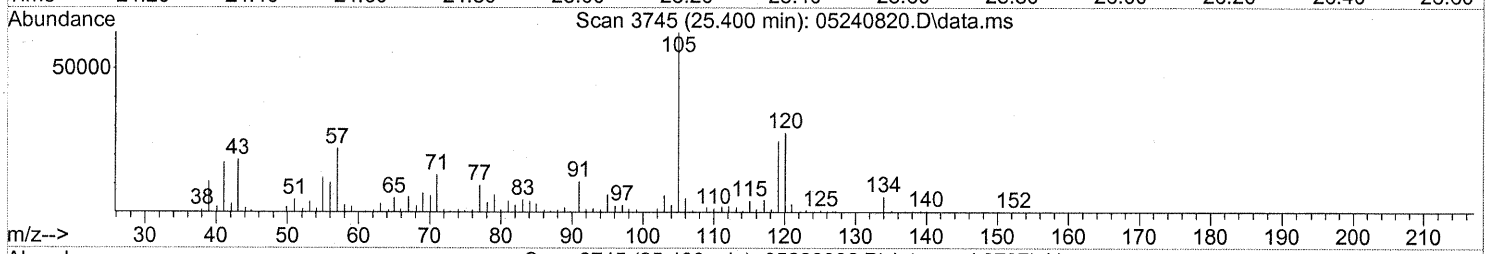


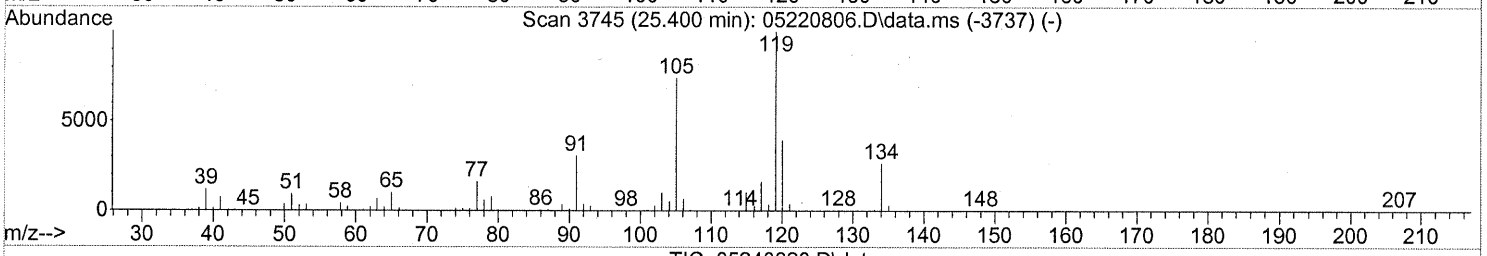
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.30ng

response 43158

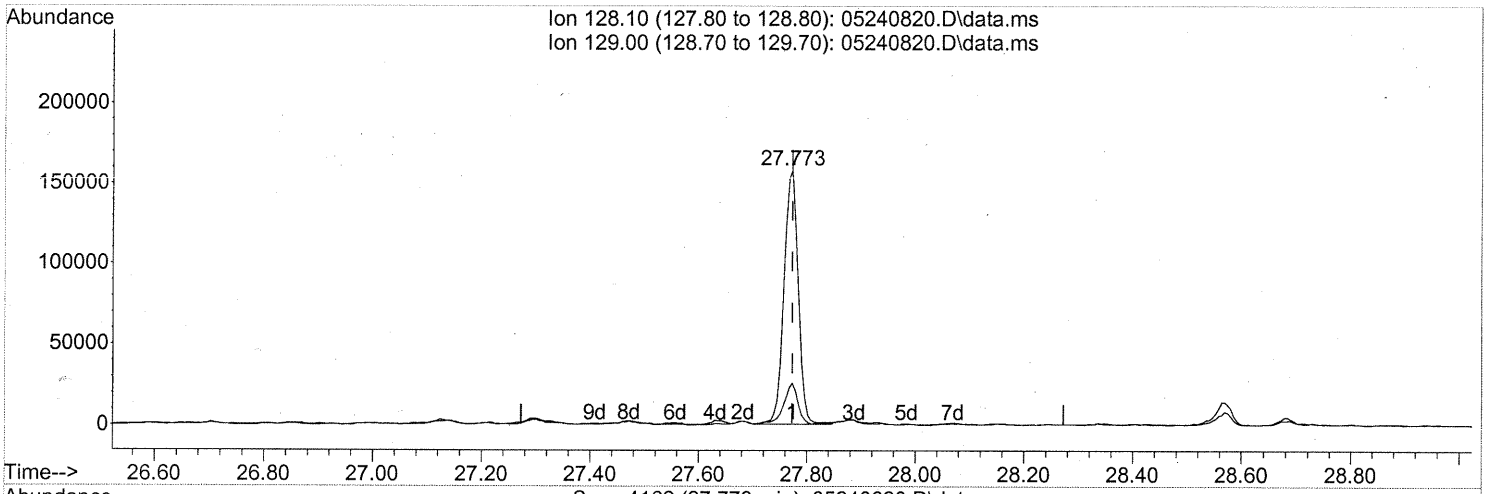
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	22.02
91.10	27.10	46.49
0.00	0.00	0.00

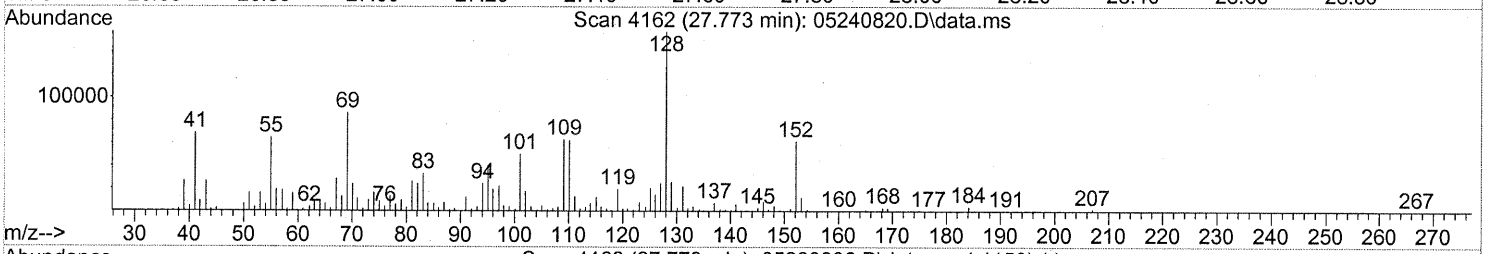
719

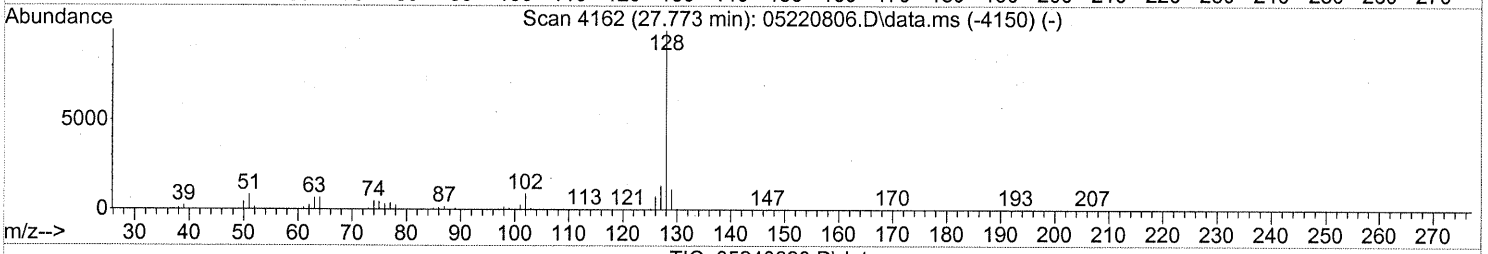
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 1.58ng

response 288104

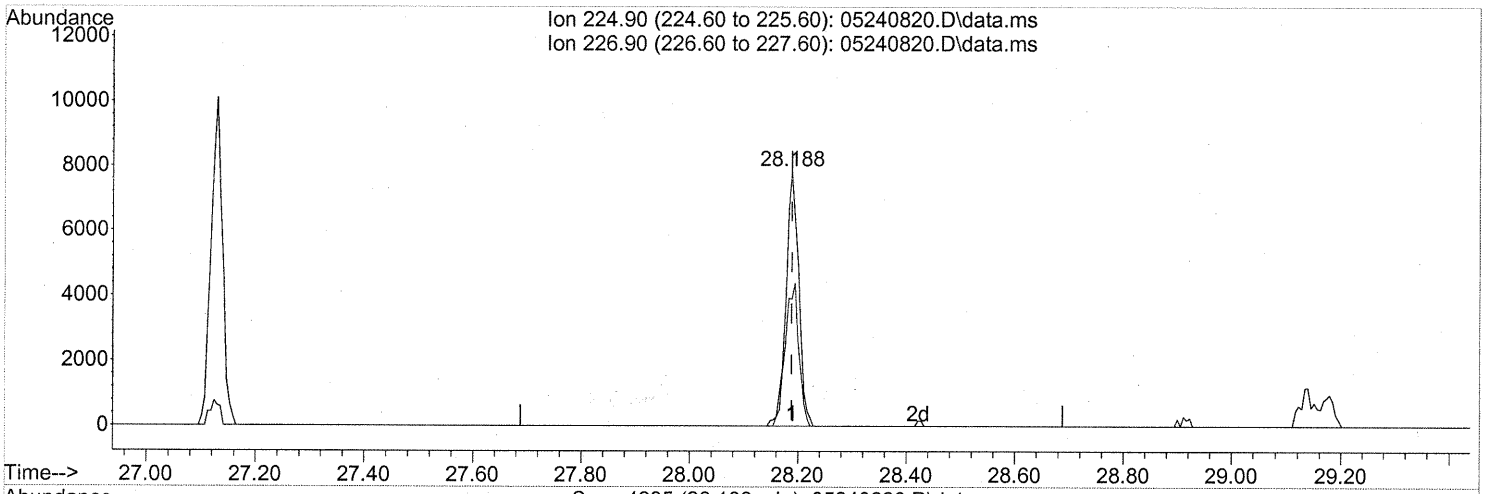
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	16.44
0.00	0.00	0.00
0.00	0.00	0.00

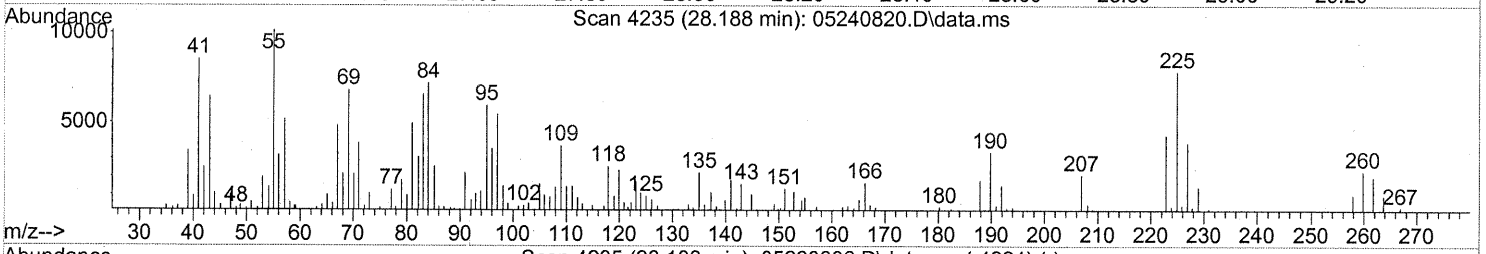
720

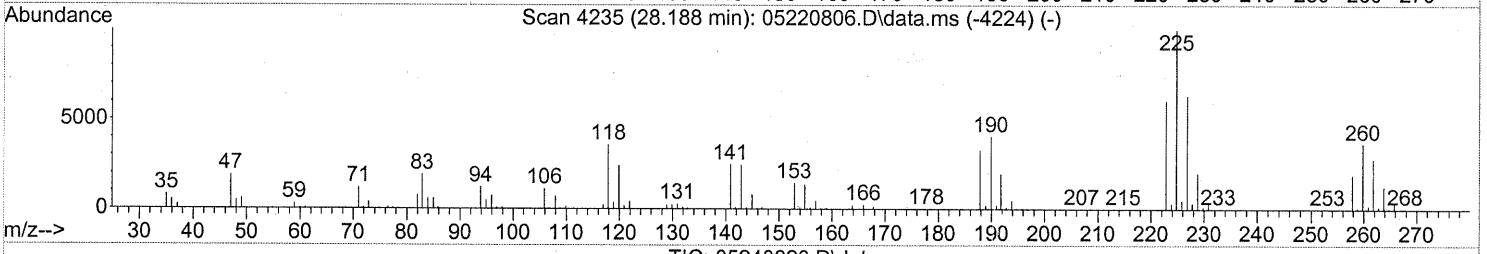
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:52:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240820.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 0.32ng

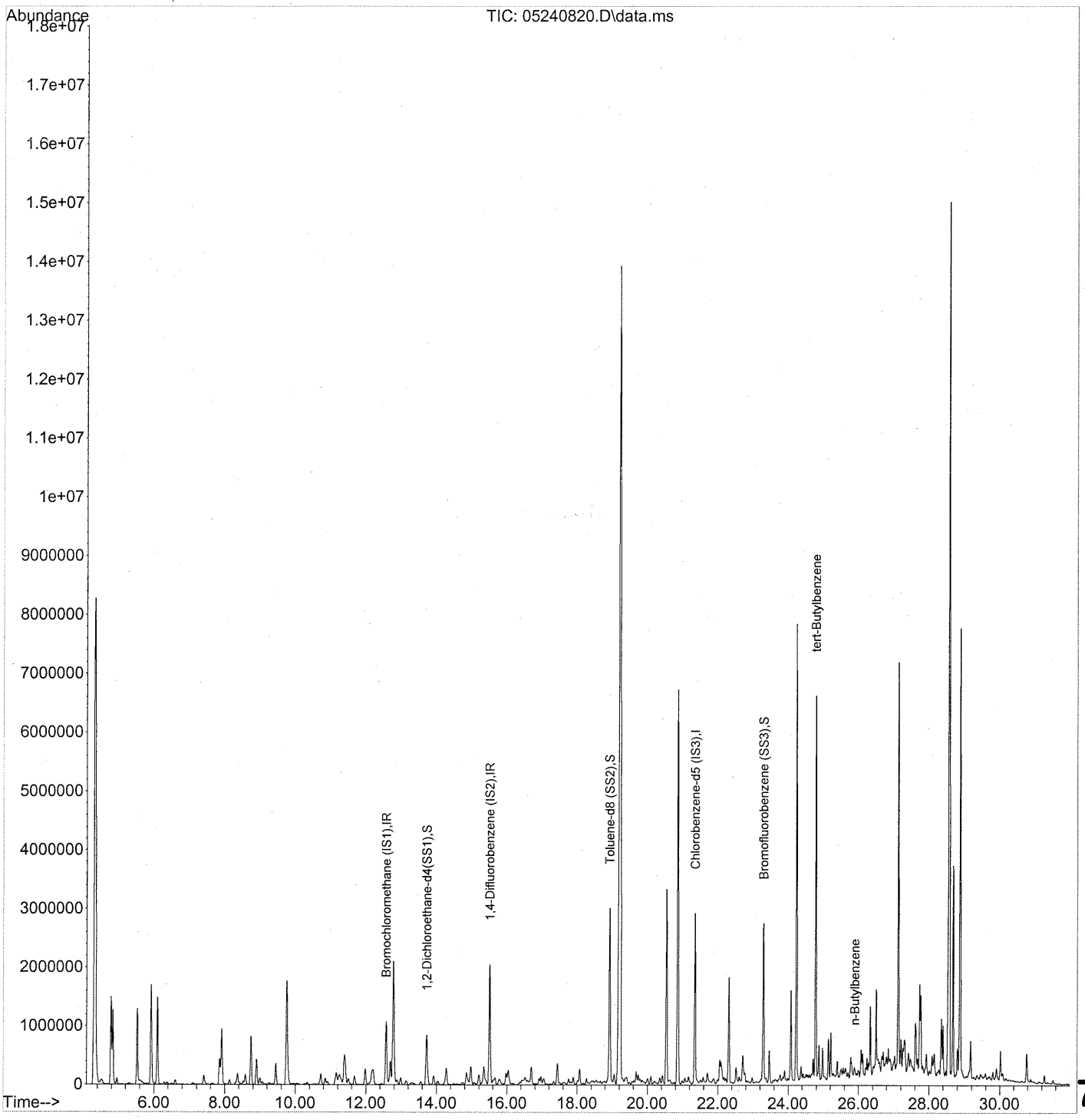
response 12796

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	59.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:37:16 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



722

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:37:16 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	561245	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2384740	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1127495	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	13.72	65	887049	22.810	ng		-0.03
Spiked Amount 25.000			Recovery = 91.24%				
5) Toluene-d8 (SS2)	18.93	98	2481133	24.503	ng		-0.01
Spiked Amount 25.000			Recovery = 98.00%				
6) Bromofluorobenzene (SS3)	23.29	174	1049844	25.496	ng		0.00
Spiked Amount 25.000			Recovery = 102.00%				
Target Compounds							Qvalue
7) tert-Butylbenzene	24.78	119	120374	~~0.909~~	ng	NR	94
8) n-Butylbenzene	25.90	91	62214	0.425	ng	#	53

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

723

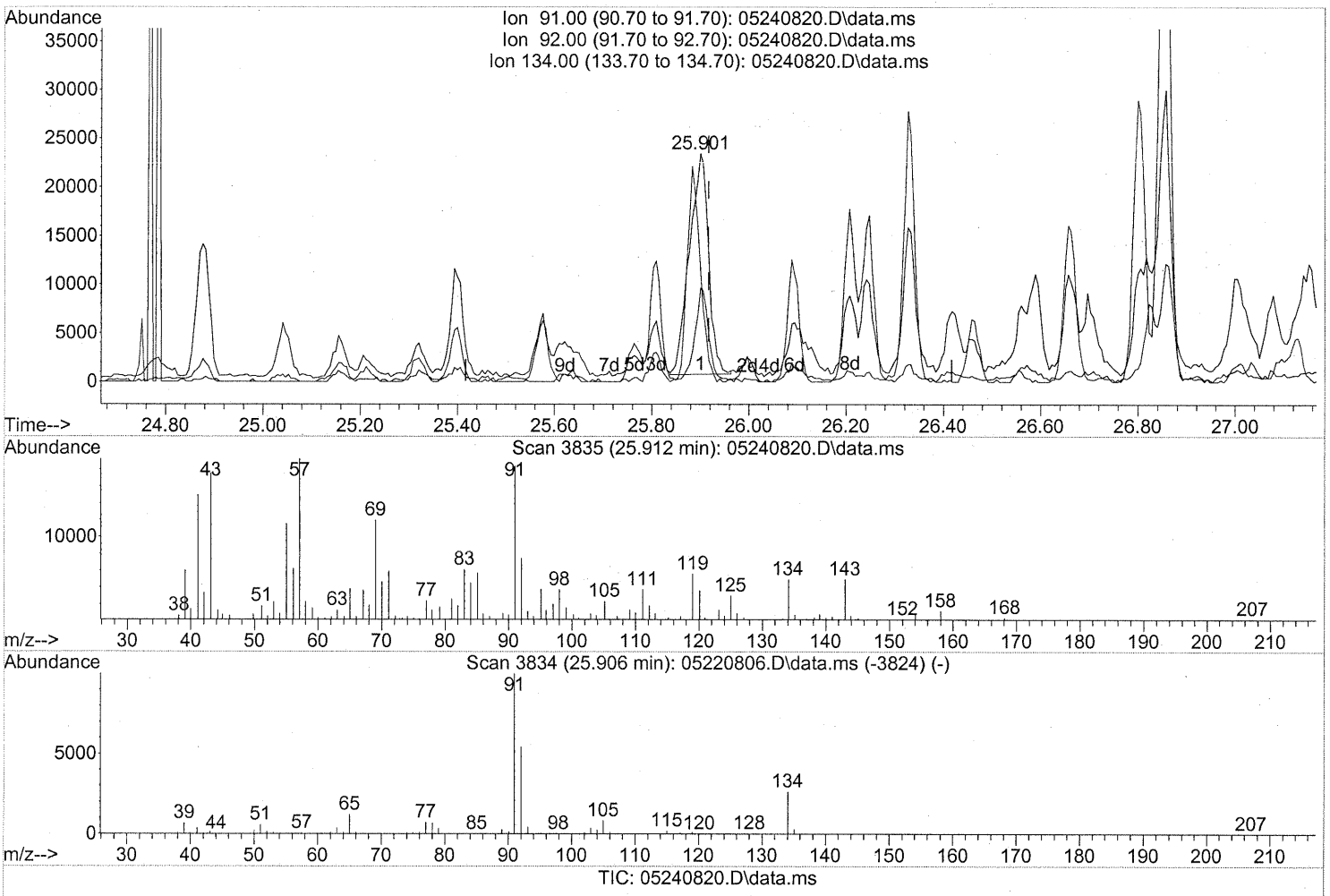
S13052208.M Tue May 27 07:36:54 2008

DA 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240820.D
Acq On : 24 May 2008 20:14
Operator : WA
Sample : P0801442-013 (1000ml)
Misc : ENSR SG85B-05 (-3.0, 3.5)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 25 20:37:16 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240820.D\data.ms

(8) n-Butylbenzene

25.901min (-0.017) 0.42ng

response 62214

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	31.13#
134.00	28.80	67.12#
0.00	0.00	0.00

724

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	20	2.0	ND	4.0	0.40	
74-87-3	Chloromethane	ND	4.0	2.0	ND	1.9	0.97	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	20	2.0	ND	2.9	0.29	
75-01-4	Vinyl Chloride	ND	4.0	2.0	ND	1.6	0.78	
74-83-9	Bromomethane	ND	4.0	2.0	ND	1.0	0.52	
75-00-3	Chloroethane	ND	4.0	2.0	ND	1.5	0.76	
64-17-5	**Ethanol**	**3.8**	200	2.0	**2.0**	110	1.1	**J**
67-64-1	**Acetone**	**14**	200	2.9	**5.9**	84	1.2	**J, B**
75-69-4	Trichlorofluoromethane	ND	4.0	2.0	ND	0.71	0.36	
107-13-1	Acrylonitrile	ND	20	2.8	ND	9.2	1.3	
75-35-4	1,1-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	20	3.0	ND	6.6	0.98	
75-09-2	**Methylene Chloride**	**2.4**	20	2.0	**0.69**	5.8	0.58	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	4.0	2.0	ND	1.3	0.64	
76-13-1	Trichlorotrifluoroethane	ND	4.0	2.2	ND	0.52	0.29	
75-15-0	**Carbon Disulfide**	**11**	20	4.8	**3.4**	6.4	1.5	**J**
156-60-5	trans-1,2-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
75-34-3	1,1-Dichloroethane	ND	4.0	2.0	ND	0.99	0.49	
1634-04-4	Methyl tert-Butyl Ether	ND	4.0	2.0	ND	1.1	0.55	
108-05-4	Vinyl Acetate	ND	200	6.4	ND	57	1.8	
78-93-3	2-Butanone (MEK)	ND	20	2.0	ND	6.8	0.68	
156-59-2	cis-1,2-Dichloroethene	ND	4.0	2.0	ND	1.0	0.50	
108-20-3	Diisopropyl Ether	ND	20	2.4	ND	4.8	0.56	
67-66-3	**Chloroform**	**4,700**	4.0	2.4	**960**	0.82	0.48	

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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	20	2.0	ND	4.8	0.49	
107-06-2	1,2-Dichloroethane	ND	4.0	2.0	ND	0.99	0.49	
71-55-6	**1,1,1-Trichloroethane**	**14**	4.0	2.0	**2.6**	0.73	0.37	
71-43-2	**Benzene**	**2.0**	4.0	2.0	**0.64**	1.3	0.63	**J**
56-23-5	**Carbon Tetrachloride**	**7.6**	4.0	2.0	**1.2**	0.64	0.32	
994-05-8	tert-Amyl Methyl Ether	ND	20	2.0	ND	4.8	0.48	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ND	0.87	0.43	
75-27-4	**Bromodichloromethane**	**5.1**	4.0	2.0	**0.76**	0.60	0.30	
79-01-6	**Trichloroethene**	**140**	4.0	2.0	**26**	0.74	0.37	
123-91-1	1,4-Dioxane	ND	20	2.4	ND	5.6	0.68	
80-62-6	Methyl Methacrylate	ND	20	3.0	ND	4.9	0.73	
142-82-5	n-Heptane	ND	20	2.6	ND	4.9	0.62	
10061-01-5	cis-1,3-Dichloropropene	ND	20	2.1	ND	4.4	0.46	
108-10-1	4-Methyl-2-pentanone	ND	20	2.2	ND	4.9	0.55	
10061-02-6	trans-1,3-Dichloropropene	ND	20	2.5	ND	4.4	0.56	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.0	ND	0.73	0.37	
108-88-3	**Toluene**	**23**	20	2.0	**6.2**	5.3	0.53	
591-78-6	2-Hexanone	ND	20	3.0	ND	4.9	0.74	
124-48-1	Dibromochloromethane	ND	4.0	2.7	ND	0.47	0.32	
106-93-4	1,2-Dibromoethane	ND	4.0	2.2	ND	0.52	0.28	
111-65-9	n-Octane	ND	20	2.0	ND	4.3	0.43	
127-18-4	**Tetrachloroethene**	**2,300**	4.0	2.0	**330**	0.59	0.30	
108-90-7	Chlorobenzene	ND	4.0	2.0	ND	0.87	0.44	

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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	20	2.5	ND	4.6	0.57	
179601-23-1	m,p-Xylenes	ND	20	5.2	ND	4.6	1.2	
75-25-2	Bromoform	ND	20	3.0	ND	1.9	0.29	
100-42-5	Styrene	ND	20	3.0	ND	4.7	0.71	
95-47-6	o-Xylene	ND	20	2.5	ND	4.6	0.58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ND	0.58	0.37	
98-82-8	Cumene	ND	20	2.2	ND	4.1	0.46	
103-65-1	n-Propylbenzene	ND	20	2.1	ND	4.1	0.42	
622-96-8	4-Ethyltoluene	ND	20	2.3	ND	4.1	0.46	
108-67-8	1,3,5-Trimethylbenzene	ND	20	2.4	ND	4.1	0.49	
98-83-9	alpha-Methylstyrene	ND	20	2.9	ND	4.1	0.60	
95-63-6	1,2,4-Trimethylbenzene	ND	20	2.8	ND	4.1	0.56	
100-44-7	Benzyl Chloride	ND	4.0	3.4	ND	0.77	0.66	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.5	ND	0.67	0.41	
106-46-7	**1,4-Dichlorobenzene**	**2.5**	4.0	2.2	**0.41**	0.67	0.37	**J**
135-98-8	sec-Butylbenzene	ND	20	2.3	ND	3.6	0.42	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	20	2.6	ND	3.6	0.47	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.6	ND	0.67	0.44	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	3.0	ND	2.1	0.31	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	3.0	ND	0.54	0.41	
91-20-3	Naphthalene	ND	8.0	3.0	ND	1.5	0.56	
87-68-3	**Hexachlorobutadiene**	**460**	4.0	3.6	**43**	0.38	0.34	
98-06-6	tert-Butylbenzene	ND	8.0	2.0	ND	1.5	0.36	
104-51-8	n-Butylbenzene	ND	8.0	2.0	ND	1.5	0.36	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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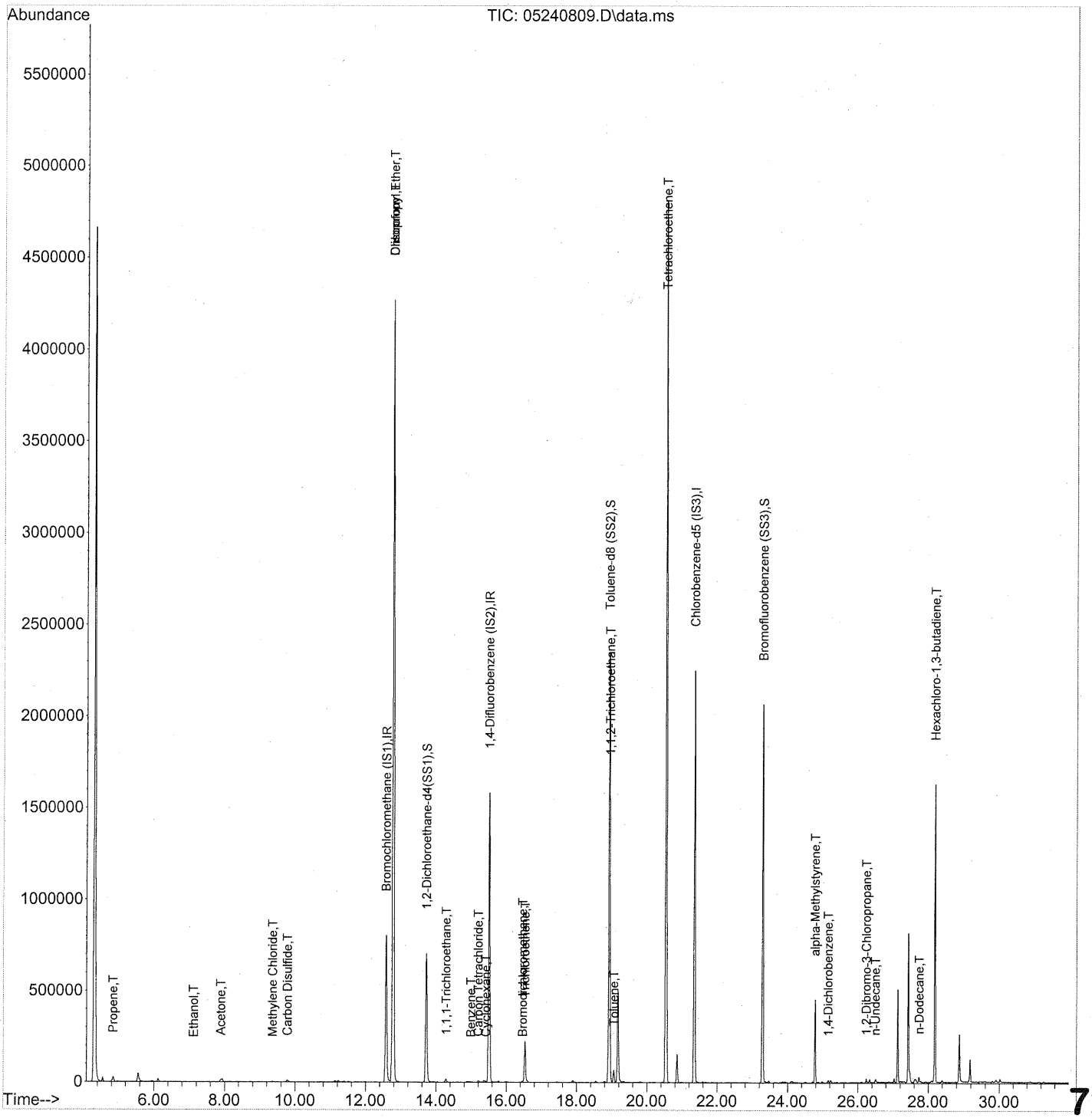
Verified By: RC Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	408720	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1810368	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	852322	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	13.72	65	722748	25.521	ng	0.00
Spiked Amount 25.000			Recovery = 102.08%			
57) Toluene-d8 (SS2)	18.92	98	1932261	25.243	ng	0.00
Spiked Amount 25.000			Recovery = 100.96%			
73) Bromofluorobenzene (SS3)	23.29	174	764507	24.560	ng	0.00
Spiked Amount 25.000			Recovery = 98.24%			
Target Compounds						Qvalue
2) Propene	4.84	42	4717	0.146	ng #	1
3) Dichlorodifluoromethane	4.99	85	2843	N.D.		
4) Chloromethane	5.32	50	99	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	54	N.D.		
9) Chloroethane	6.85	64	137	N.D.		
10) Ethanol	7.13	45	2062	0.096	ng #	62
11) Acetonitrile	7.47	41	2255	N.D.		
12) Acrolein	7.66	56	572	N.D.		
13) Acetone	7.89	58	7771	0.353	ng #	43
14) Trichlorofluoromethane	8.15	101	935	N.D.		
15) Isopropanol	8.35	45	2830	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.16	96	467	N.D.		
18) tert-Butanol	9.29	59	1534	N.D.		
19) Methylene Chloride	9.36	84	1483	0.060	ng #	53
20) Allyl Chloride	9.44	41	52	N.D.		
21) Trichlorotrifluoroethane	9.81	151	116	N.D.		
22) Carbon Disulfide	9.78	76	24788	0.266	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	100	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.71	72	775	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	456049	~~23.176 ng~~ NR	#	1
30) Ethyl Acetate	12.79	61	102	N.D.		
31) n-Hexane	12.69	57	546	N.D.		

729

5/27/08

Quantitation Report (QT Reviewed)

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Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	4374930	117.384 ng		99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.77	62	52	N.D.		
38) 1,1,1-Trichloroethane	14.29	97	14778	0.358 ng		97
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.87	56	946	N.D.		
41) Benzene	14.99	78	4879	0.051 ng		71
42) Carbon Tetrachloride	15.20	117	6893	0.189 ng		97
43) Cyclohexane	15.41	84	2335	0.063 ng	#	44
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	4068	0.127 ng		99
47) Trichloroethene	16.53	130	99591	3.425 ng		97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	1309	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	171384	7.317 ng	NR#	8
58) Toluene	19.06	91	61058	0.587 ng		97
59) 2-Hexanone	19.37	43	208	N.D.		
60) Dibromochloromethane	19.61	129	249	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.20	43	64	N.D.		
63) n-Octane	20.53	57	77	N.D.		
64) Tetrachloroethene	20.55	166	1743323	56.622 ng		99
65) Chlorobenzene	21.42	112	1020	N.D.		
66) Ethylbenzene	21.89	91	589	N.D.		
67) m- & p-Xylene	22.12	91	883	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.72	91	411	N.D.		
71) n-Nonane	22.97	43	170	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.68	83	55	N.D.		
74) Cumene	23.46	105	672	N.D.		
75) alpha-Pinene	23.97	93	228	N.D.		
76) n-Propylbenzene	24.12	91	520	N.D.		
77) 3-Ethyltoluene	24.24	105	739	N.D.		
78) 4-Ethyltoluene	24.30	105	496	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	226	N.D.		

730

5/27/08

Quantitation Report (QT Reviewed)

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Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	5018	~~0.090 ng~~ NR#	4
81) 2-Ethyltoluene	24.62	105	316	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	1709	N.D. ✓	
83) n-Decane	24.99	57	2368	N.D.	
84) Benzyl Chloride	25.04	91	325	N.D. ✓	
85) 1,3-Dichlorobenzene	25.08	146	57	N.D. ✓	
86) 1,4-Dichlorobenzene	25.16	146	3949	0.062 ng	89
87) sec-Butylbenzene	25.41	105	811	N.D. ✓	
88) p-Isopropyltoluene	25.41	119	278	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	811	N.D.	
90) 1,2-Dichlorobenzene	25.57	146	58	N.D. ✓	
91) d-Limonene	25.57	68	737	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.24	157	2117	~~0.110 ng~~ NR#	46
93) n-Undecane	26.50	57	7246	0.120 ng	86
94) 1,2,4-Trichlorobenzene	27.63	180	58	N.D. ✓	
95) Naphthalene	27.77	128	4083	N.D. ✓	
96) n-Dodecane	27.74	57	9840	0.164 ng	92
97) Hexachloro-1,3-butadiene	28.19	225	345502	1.413 ng	98

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

731

Quantitation Report (Qedit)

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Acq On : 24 May 2008 12:35
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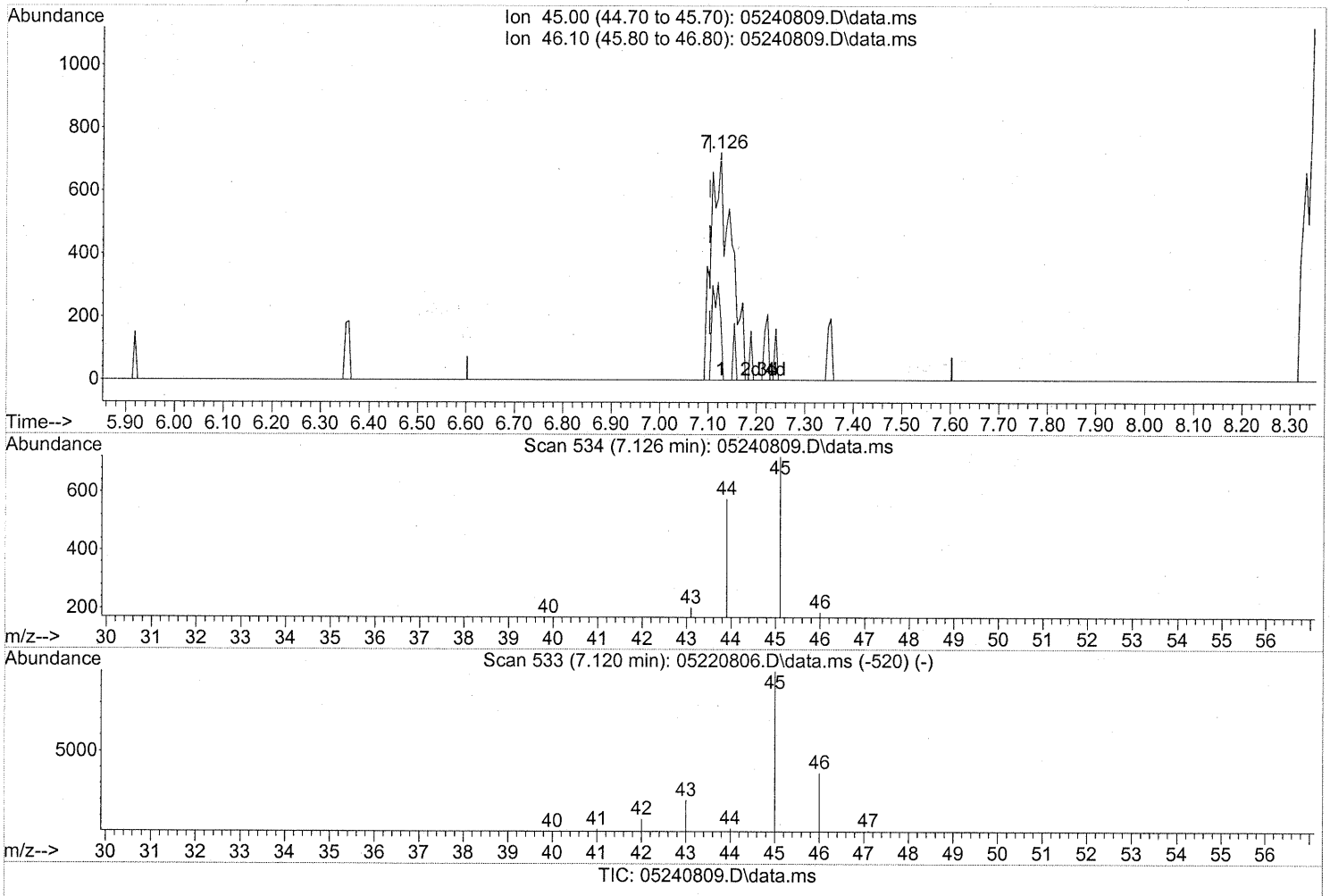
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(10) Ethanol (T)

7.126min (+0.023) 0.10ng

response 2062

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	17.02#
0.00	0.00	0.00
0.00	0.00	0.00

732

Quantitation Report (Qedit)

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Acq On : 24 May 2008 12:35
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Misc : ENSR SG35B-05 (-3.3, 3.5)
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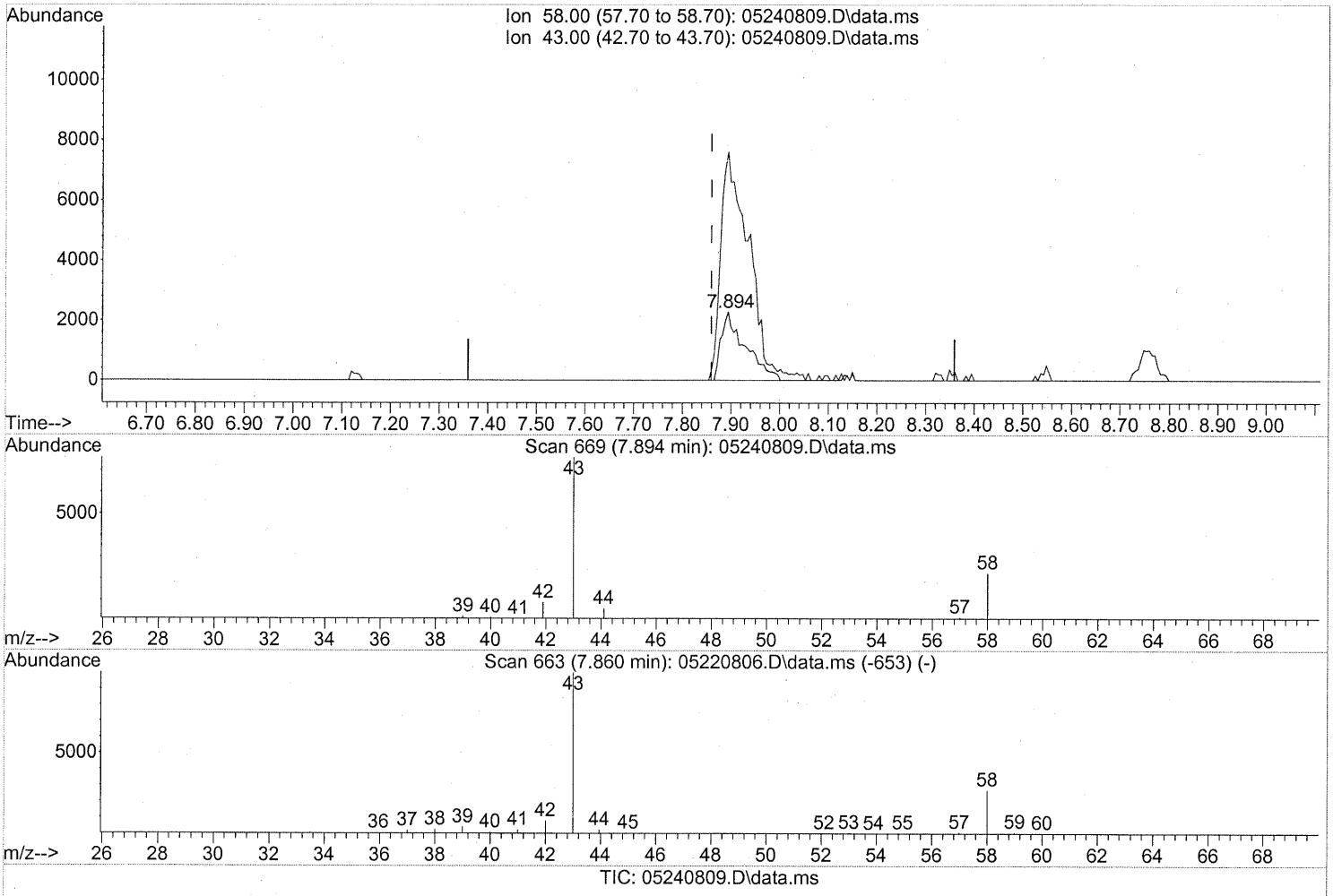
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 0.35ng

response 7771

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	390.58#
0.00	0.00	0.00
0.00	0.00	0.00

733

Quantitation Report (Qedit)

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Acq On : 24 May 2008 12:35
Operator : WA
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Misc : ENSR SG35B-05 (-3.3, 3.5)
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Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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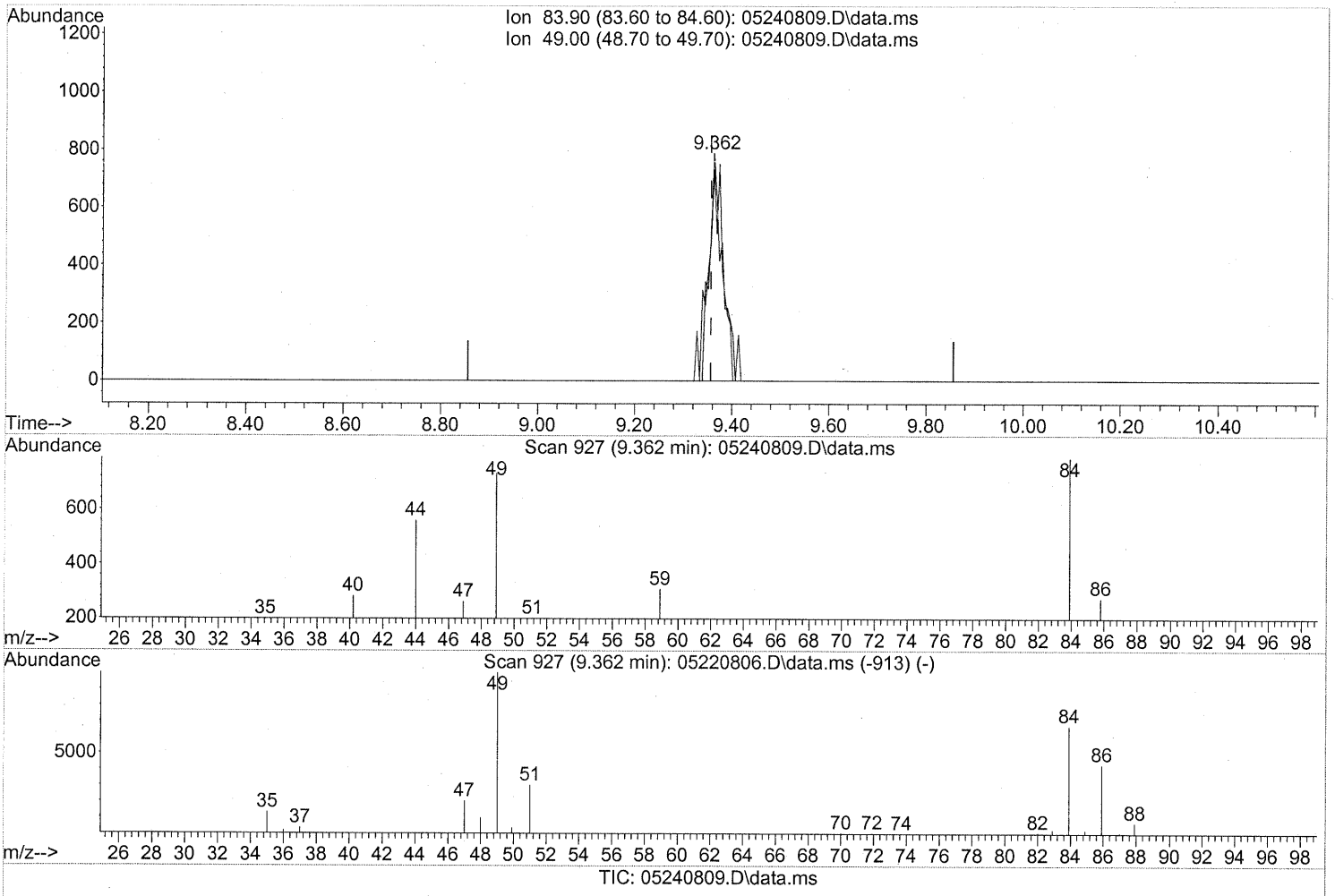

TIC: 05240809.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.06ng

response 1483

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	108.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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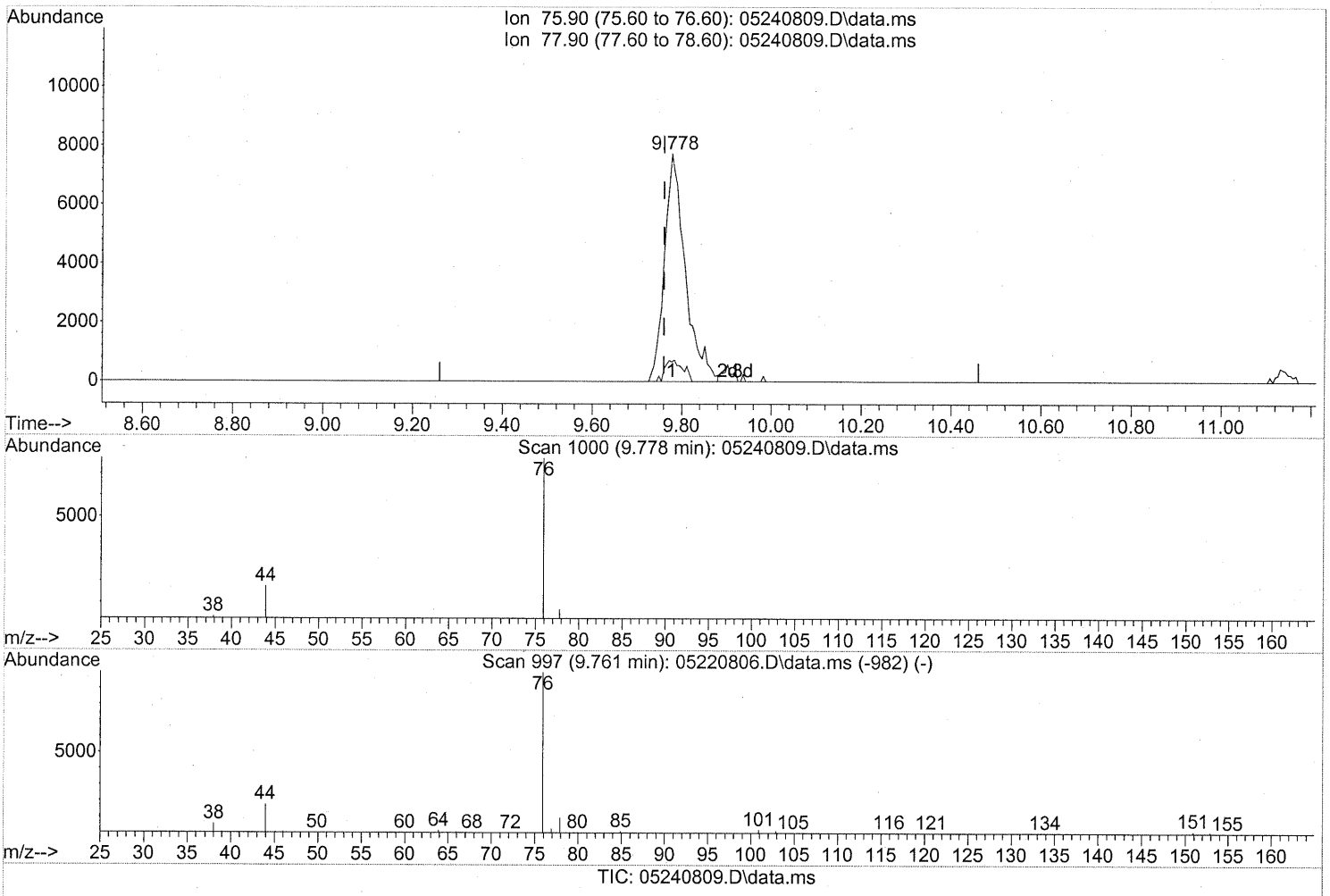

TIC: 05240809.D\data.ms

(22) Carbon Disulfide (T)

9.778min (+0.017) 0.27ng

response 24788

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.06
0.00	0.00	0.00
0.00	0.00	0.00

735

Quantitation Report (Qedit)

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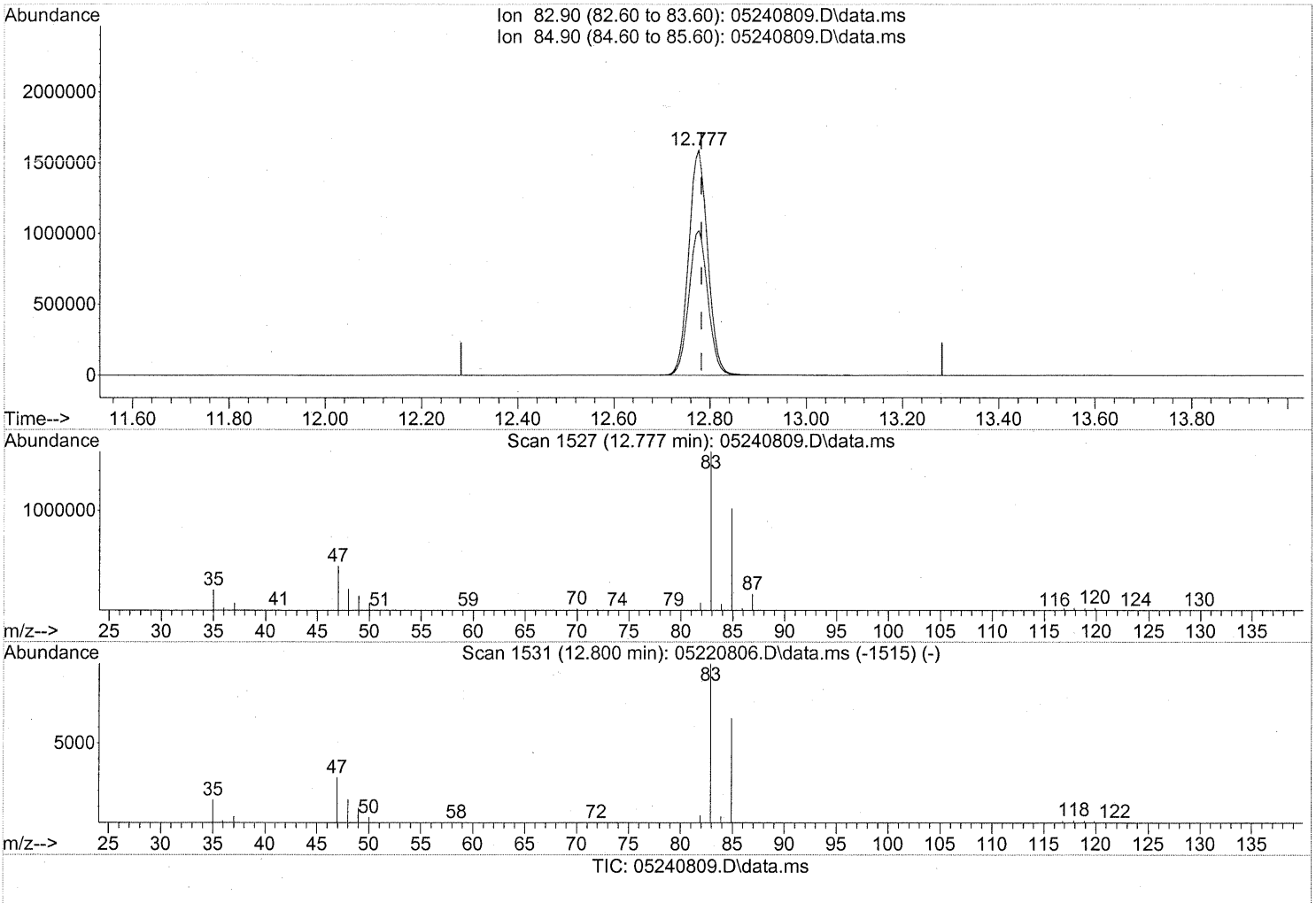
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 117.38ng

response 4374930

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.30
0.00	0.00	0.00
0.00	0.00	0.00

736

Quantitation Report (Qedit)

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ALS Vial : 6 Sample Multiplier: 1

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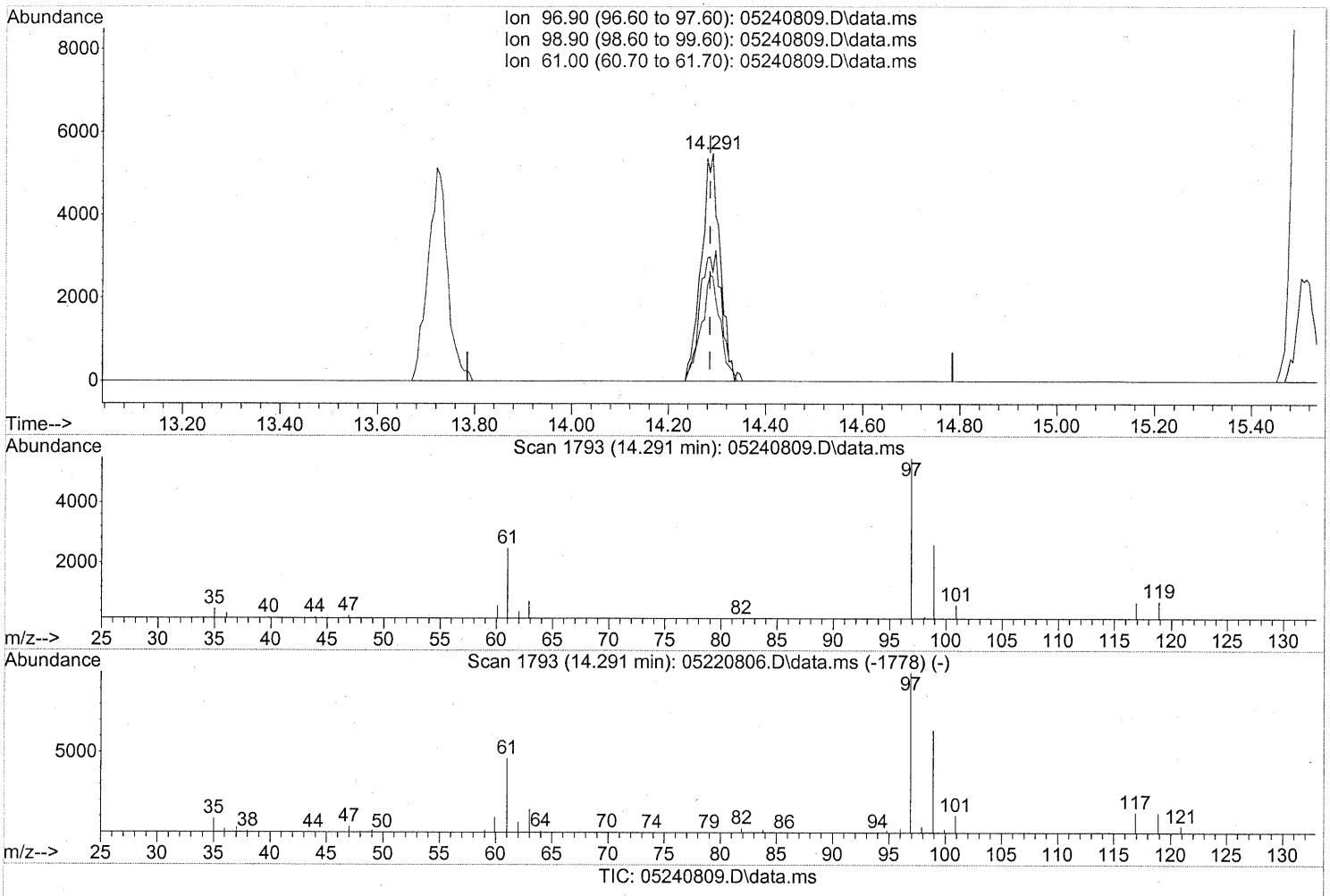
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.36ng

response 14778

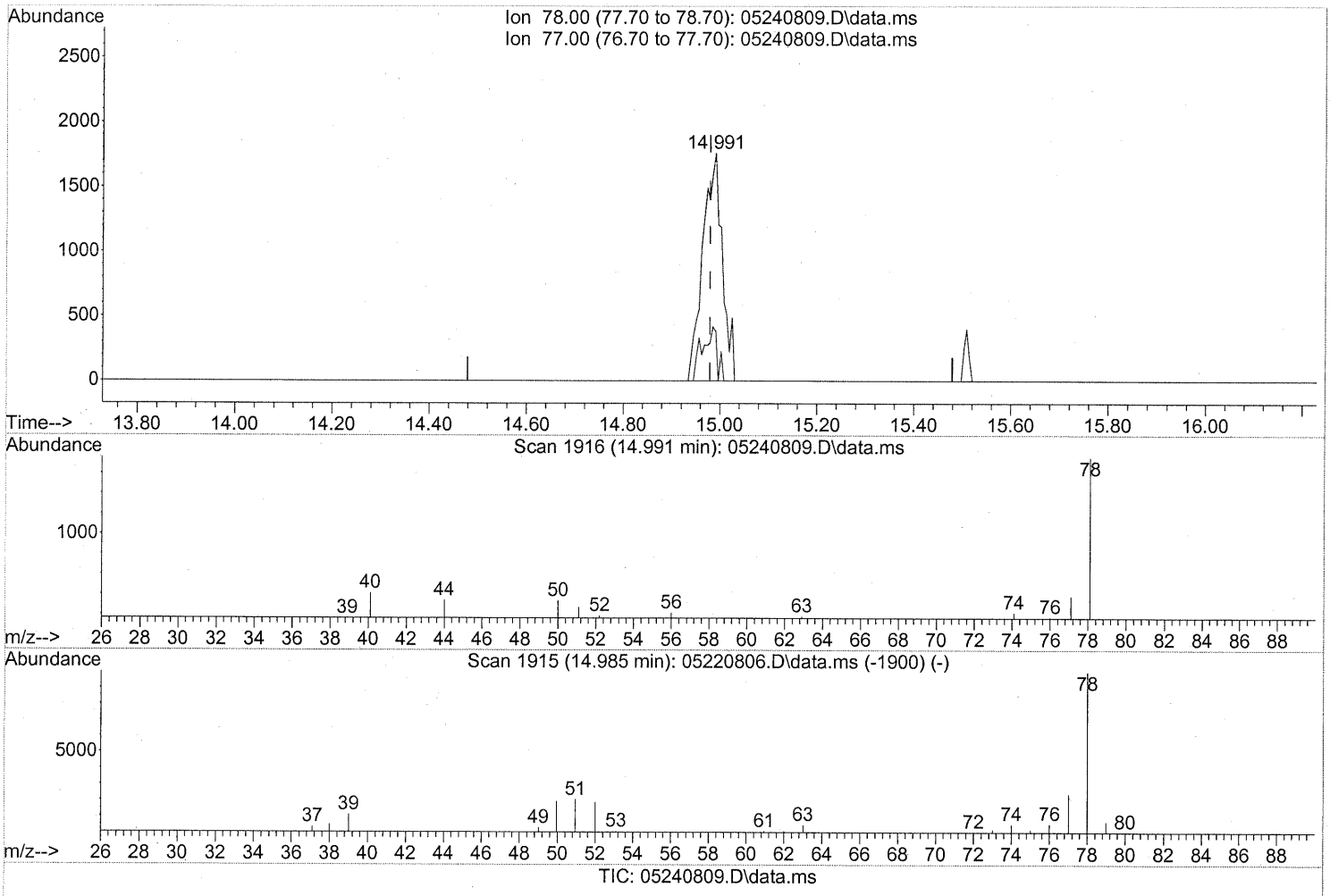
Ion	Exp%	Act%
96.90	100	100
98.90	63.40	64.20
61.00	50.50	46.61
0.00	0.00	0.00

737

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(41) Benzene (T)

14.991min (+0.011) 0.05ng

response 4879

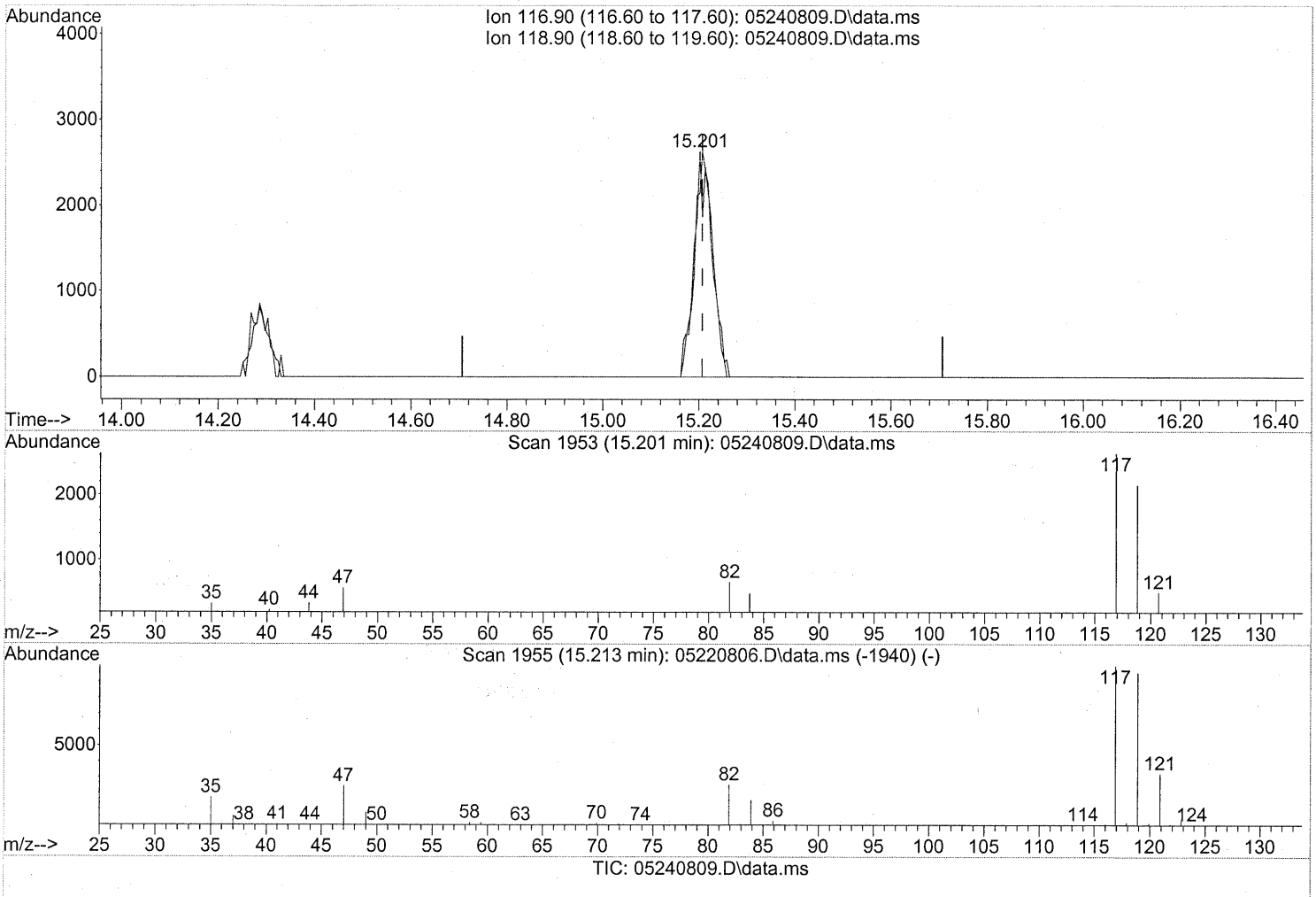
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	9.16
0.00	0.00	0.00
0.00	0.00	0.00

738

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(42) Carbon Tetrachloride (T)

15.201min (-0.006) 0.19ng

response 6893

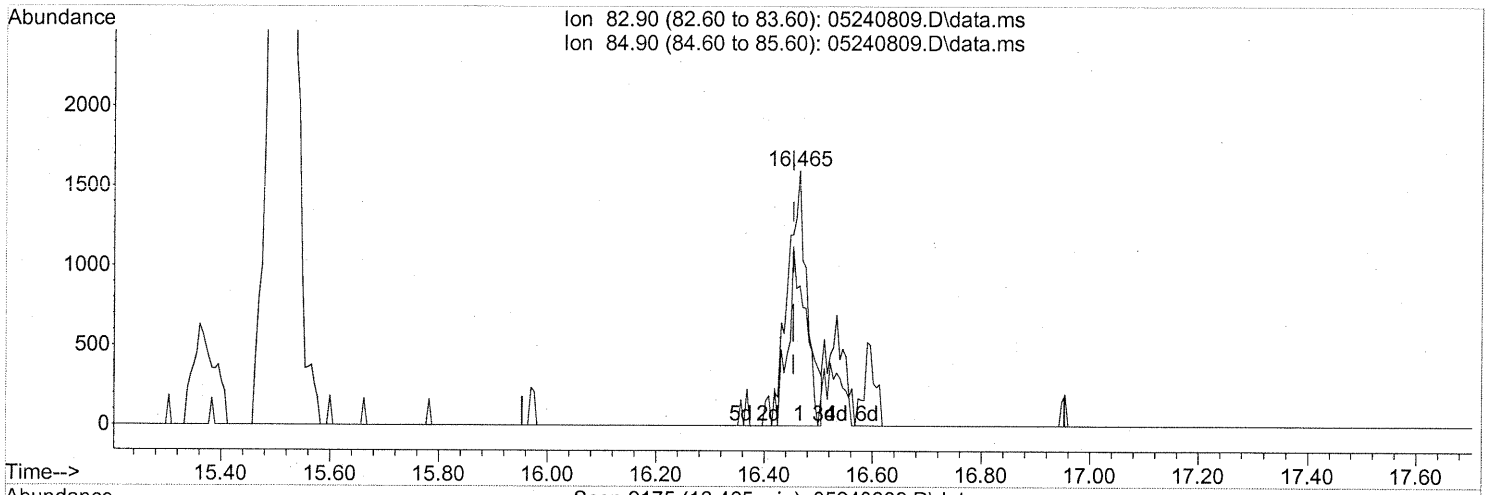
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	99.78
0.00	0.00	0.00
0.00	0.00	0.00

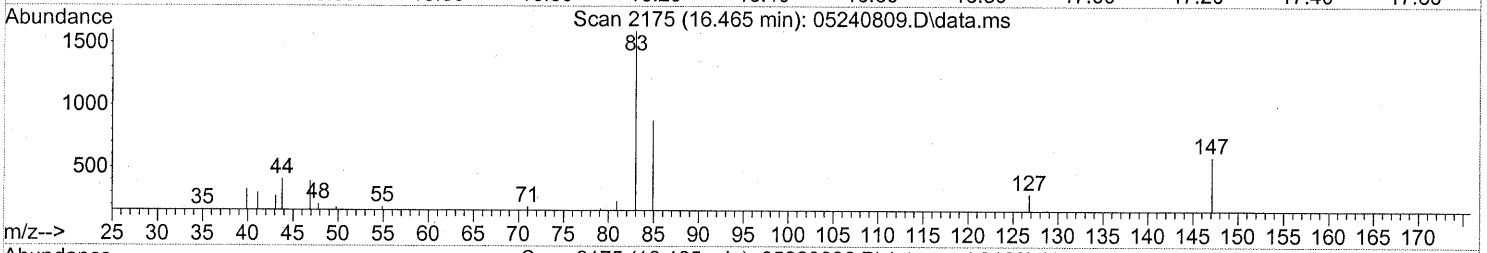
739

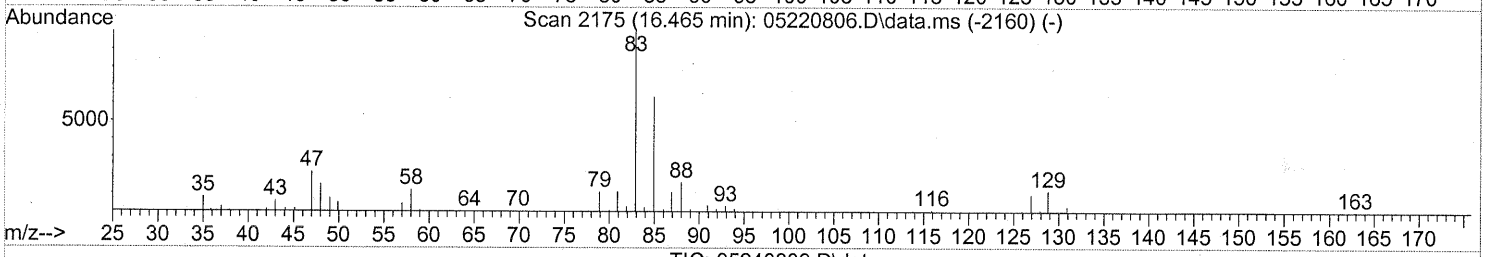
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240809.D\data.ms

(46) Bromodichloromethane (T)

16.465min (+0.011) 0.13ng

response 4068

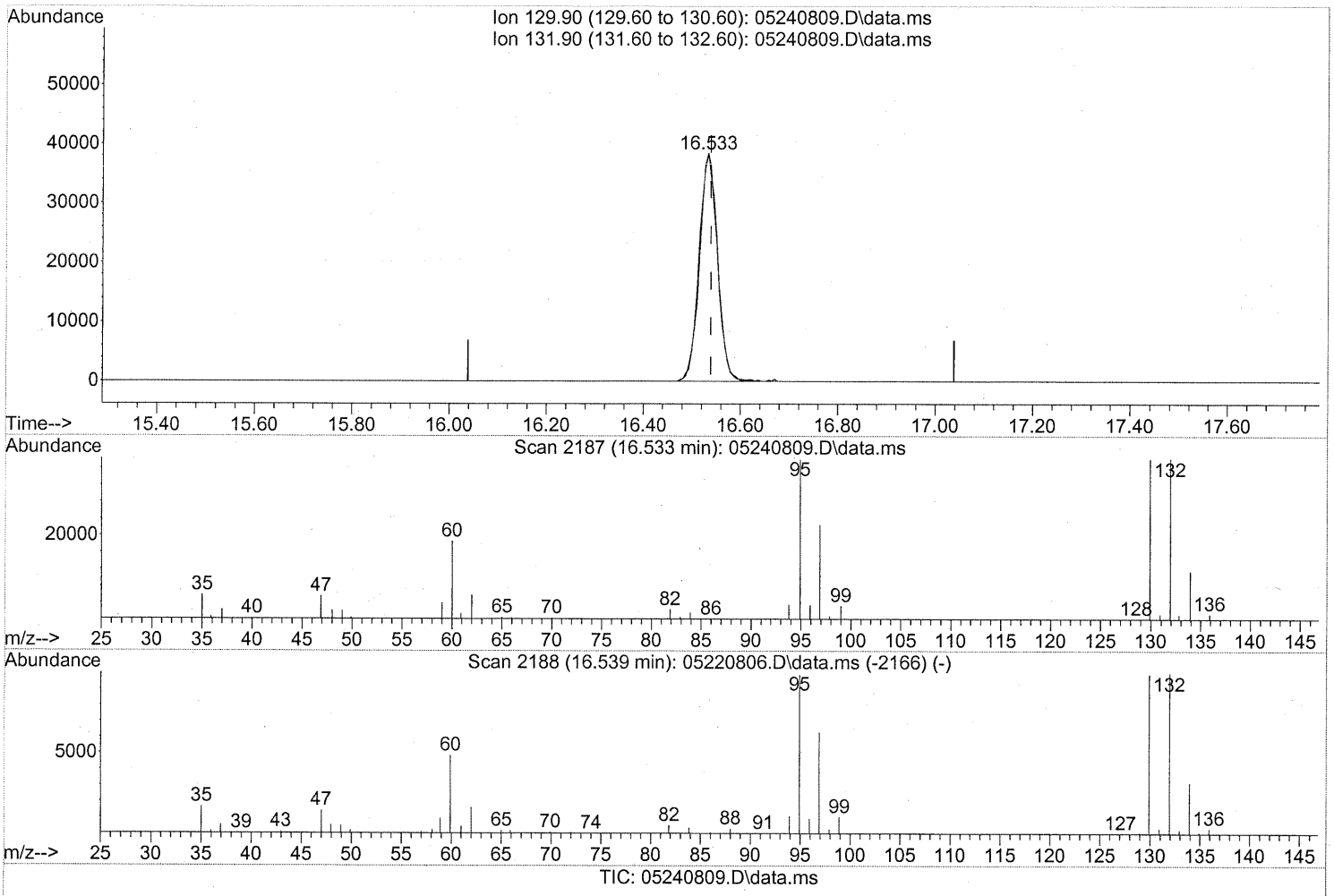
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	63.00
0.00	0.00	0.00
0.00	0.00	0.00

740

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 3.42ng

response 99591

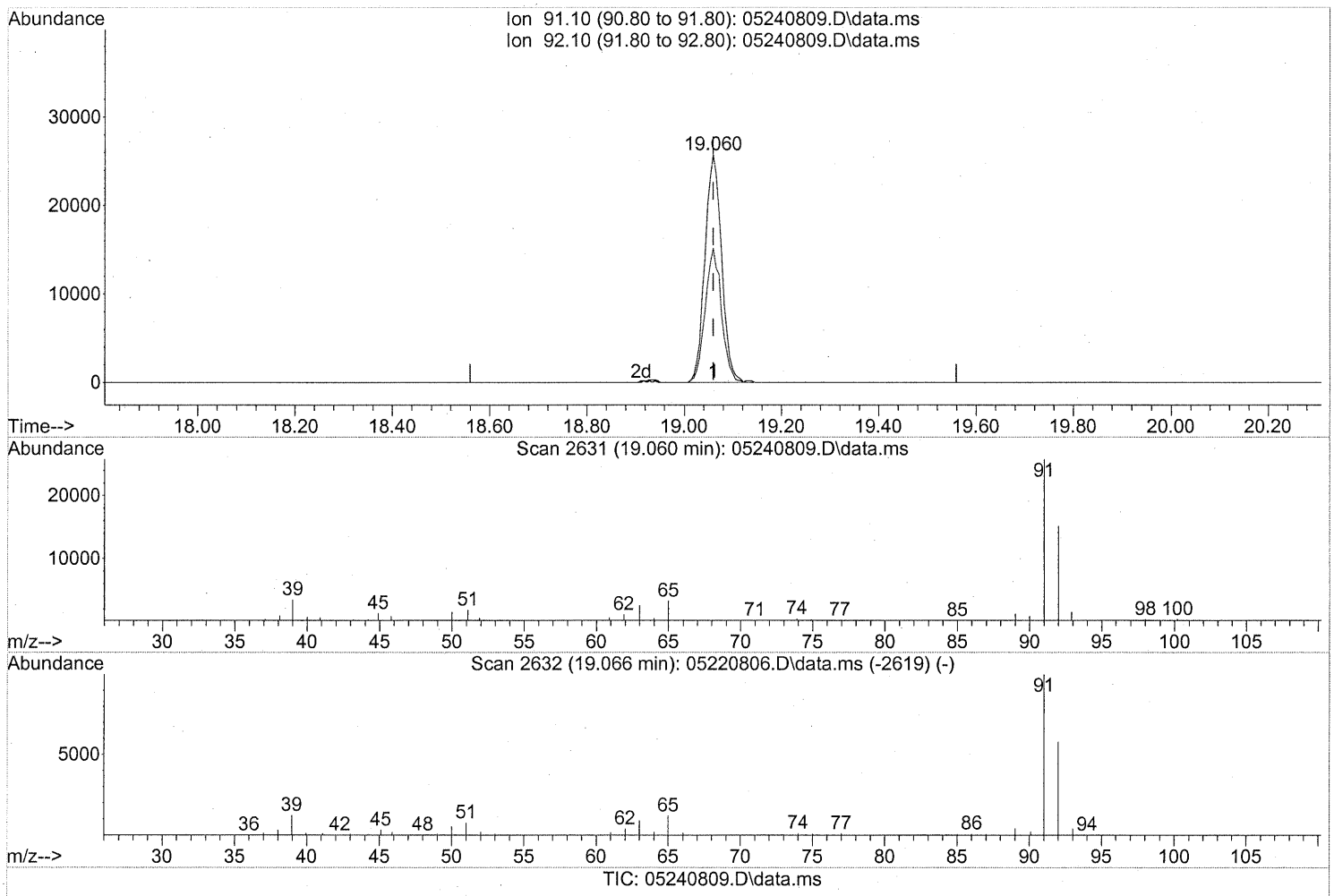
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	98.58
0.00	0.00	0.00
0.00	0.00	0.00

741

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.59ng

response 61058

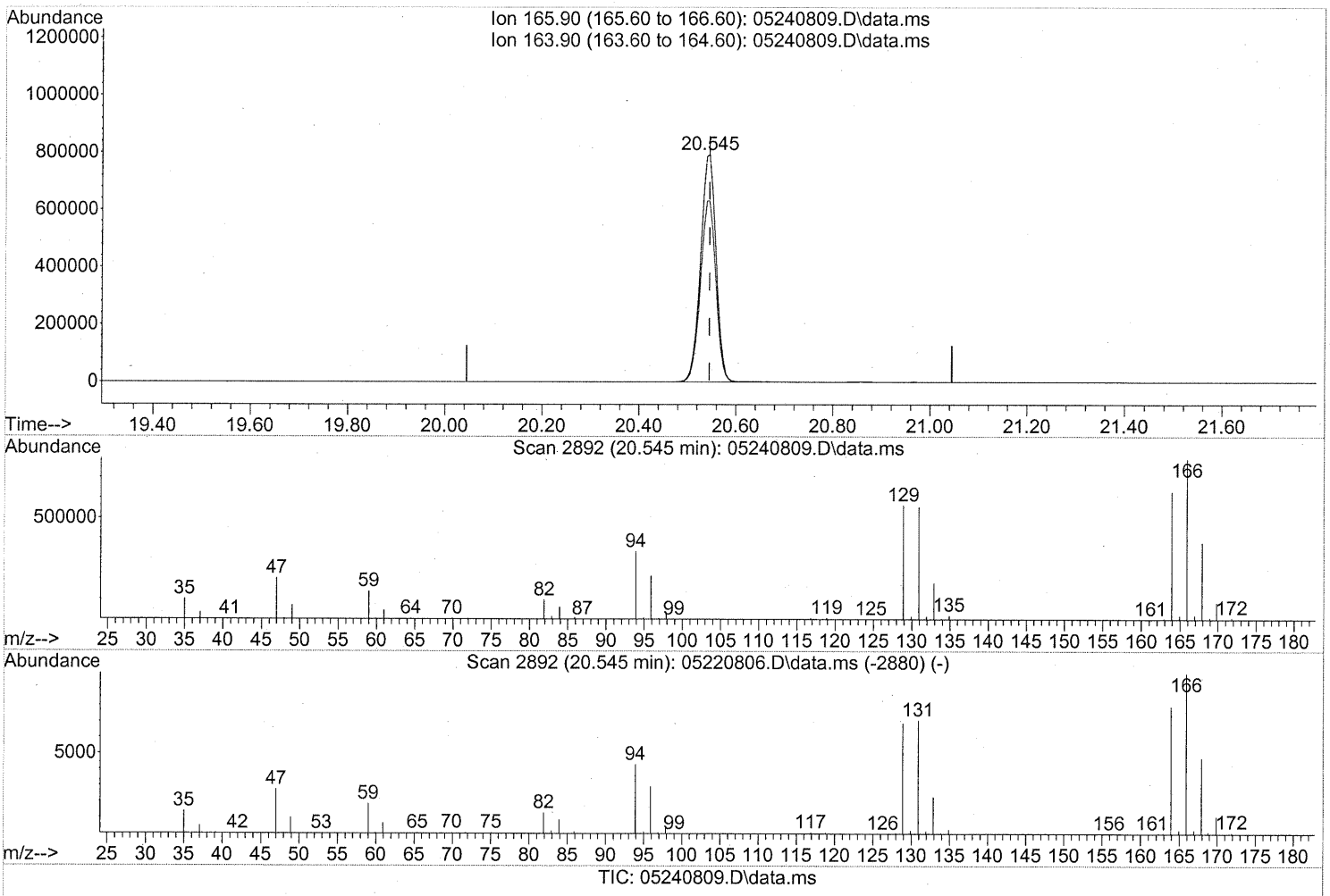
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.51
0.00	0.00	0.00
0.00	0.00	0.00

742

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 56.62ng

response 1743323

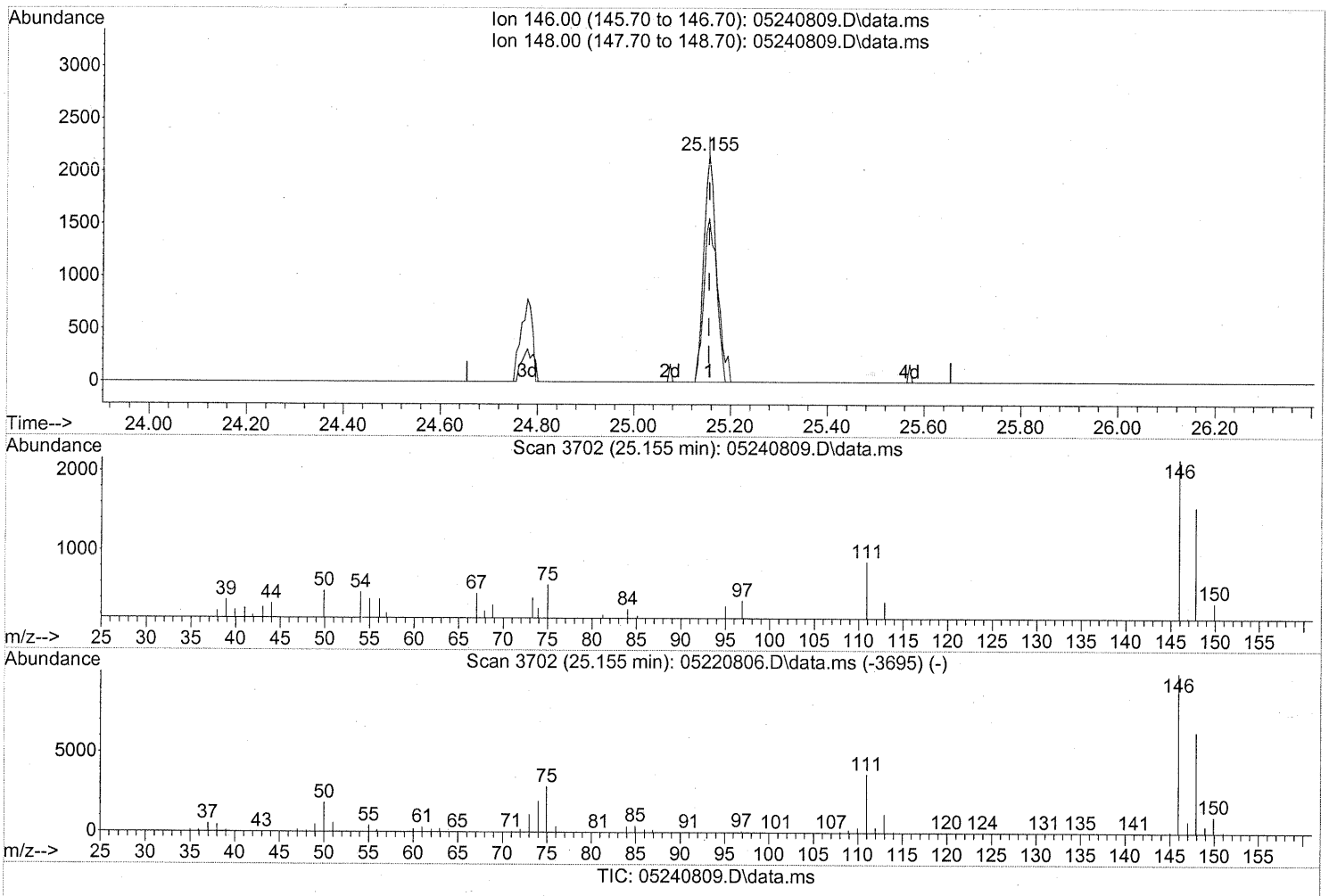
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.44
0.00	0.00	0.00
0.00	0.00	0.00

743

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.06ng

response 3949

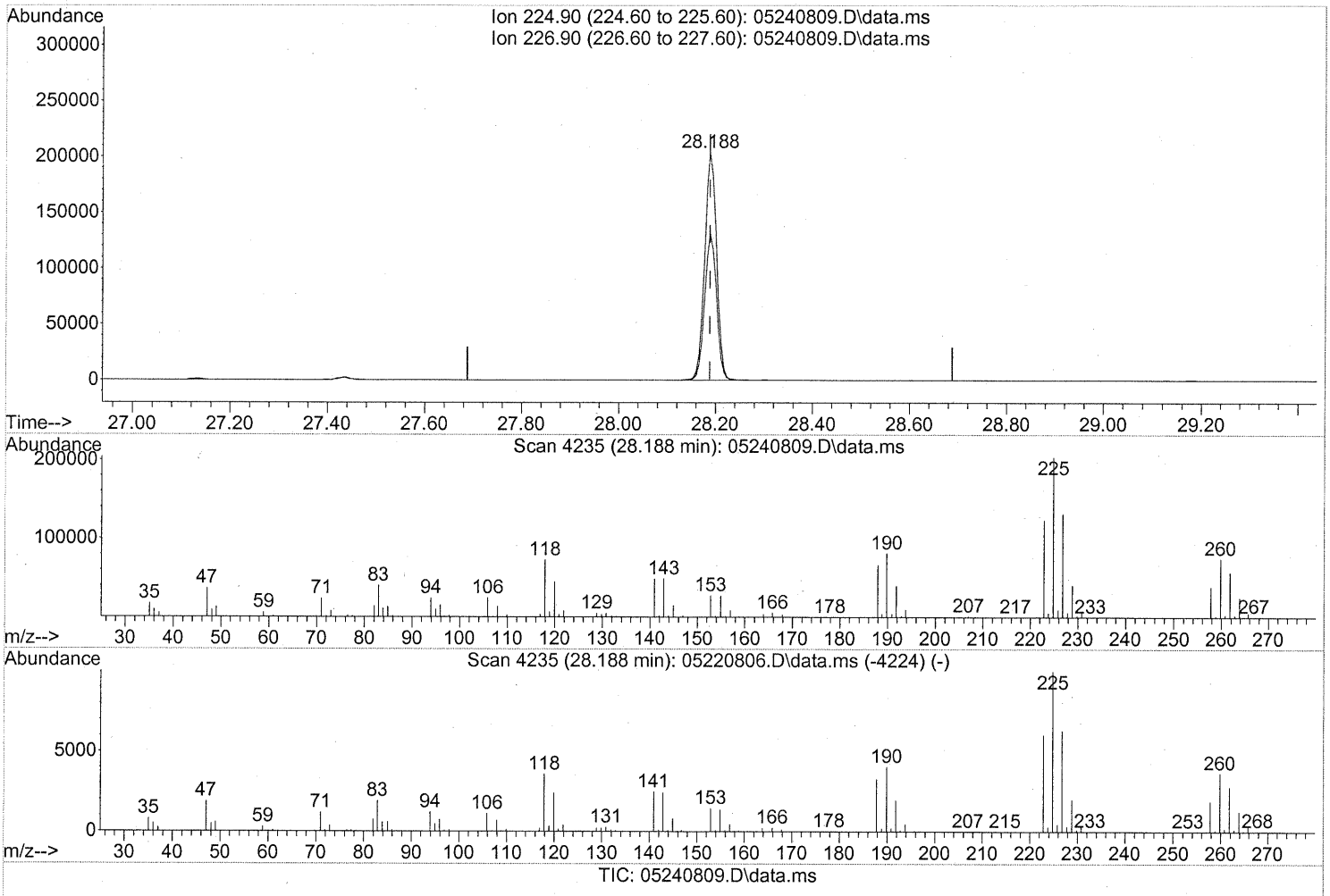
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	72.80
0.00	0.00	0.00
0.00	0.00	0.00

744

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 17:51:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240809.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 11.41ng

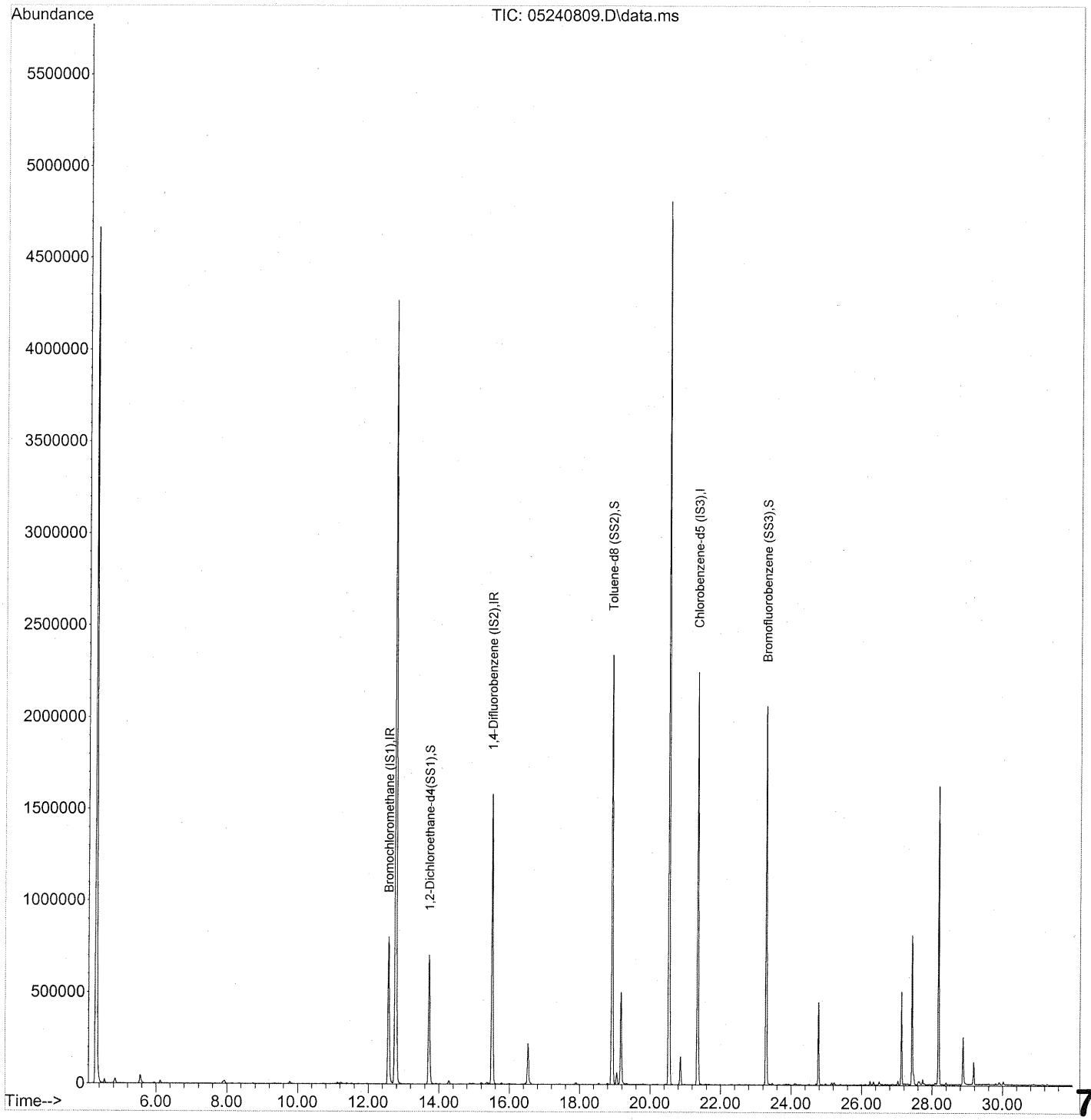
response 345502

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 25 20:36:26 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



746

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240809.D
Acq On : 24 May 2008 12:35
Operator : WA
Sample : P0801442-014 (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 25 20:36:26 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	408720	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1810368	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	852322	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	722748	25.521	ng	-0.03
Spiked Amount 25.000			Recovery = 102.08%			
5) Toluene-d8 (SS2)	18.92	98	1932261	25.243	ng	-0.02
Spiked Amount 25.000			Recovery = 100.96%			
6) Bromofluorobenzene (SS3)	23.29	174	764507	24.560	ng	0.00
Spiked Amount 25.000			Recovery = 98.24%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	53	N.D.		
8) n-Butylbenzene	25.91	91	461	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG94B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00640

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

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**	1.9	0.19	**0.40**	0.38	0.038	
74-87-3	**Chloromethane**	**0.26**	0.37	0.19	**0.13**	0.18	0.090	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.19	ND	0.27	0.027	
75-01-4	Vinyl Chloride	ND	0.37	0.19	ND	0.15	0.073	
74-83-9	Bromomethane	ND	0.37	0.19	ND	0.096	0.048	
75-00-3	Chloroethane	ND	0.37	0.19	ND	0.14	0.071	
64-17-5	**Ethanol**	**6.9**	19	0.19	**3.7**	9.9	0.099	**J**
67-64-1	**Acetone**	**7.9**	19	0.27	**3.3**	7.8	0.11	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.37	0.19	**0.19**	0.066	0.033	
107-13-1	Acrylonitrile	ND	1.9	0.26	ND	0.86	0.12	
75-35-4	1,1-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.67**	1.9	0.28	**0.22**	0.61	0.091	**J**
75-09-2	**Methylene Chloride**	**0.34**	1.9	0.19	**0.097**	0.54	0.054	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.37	0.19	ND	0.12	0.059	
76-13-1	**Trichlorotrifluoroethane**	**0.51**	0.37	0.21	**0.066**	0.049	0.027	
75-15-0	**Carbon Disulfide**	**3.2**	1.9	0.45	**1.0**	0.60	0.14	
156-60-5	trans-1,2-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
75-34-3	1,1-Dichloroethane	ND	0.37	0.19	ND	0.092	0.046	
1634-04-4	Methyl tert-Butyl Ether	ND	0.37	0.19	ND	0.10	0.052	
108-05-4	**Vinyl Acetate**	**1.5**	19	0.60	**0.43**	5.3	0.17	**J**
78-93-3	**2-Butanone (MEK)**	**6.8**	1.9	0.19	**2.3**	0.63	0.063	
156-59-2	cis-1,2-Dichloroethene	ND	0.37	0.19	ND	0.094	0.047	
108-20-3	Diisopropyl Ether	ND	1.9	0.22	ND	0.45	0.053	
67-66-3	**Chloroform**	**1.5**	0.37	0.22	**0.31**	0.076	0.045	

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: Re Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG94B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00640

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

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	1.9	0.19	ND	0.45	0.045	
107-06-2	1,2-Dichloroethane	ND	0.37	0.19	ND	0.092	0.046	
71-55-6	1,1,1-Trichloroethane	ND	0.37	0.19	ND	0.068	0.034	
71-43-2	**Benzene**	**3.6**	0.37	0.19	**1.1**	0.12	0.058	
56-23-5	**Carbon Tetrachloride**	**0.40**	0.37	0.19	**0.064**	0.059	0.030	
994-05-8	tert-Amyl Methyl Ether	ND	1.9	0.19	ND	0.45	0.045	
78-87-5	1,2-Dichloropropane	ND	0.37	0.19	ND	0.081	0.040	
75-27-4	Bromodichloromethane	ND	0.37	0.19	ND	0.056	0.028	
79-01-6	**Trichloroethene**	**0.40**	0.37	0.19	**0.075**	0.069	0.035	
123-91-1	1,4-Dioxane	ND	1.9	0.23	ND	0.52	0.063	
80-62-6	Methyl Methacrylate	ND	1.9	0.28	ND	0.45	0.068	
142-82-5	n-Heptane	ND	1.9	0.24	ND	0.45	0.058	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.19	ND	0.41	0.043	
108-10-1	4-Methyl-2-pentanone	ND	1.9	0.21	ND	0.45	0.051	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.23	ND	0.41	0.052	
79-00-5	1,1,2-Trichloroethane	ND	0.37	0.19	ND	0.068	0.034	
108-88-3	**Toluene**	**1.7**	1.9	0.19	**0.44**	0.49	0.049	**J**
591-78-6	**2-Hexanone**	**0.55**	1.9	0.28	**0.14**	0.45	0.069	**J**
124-48-1	Dibromochloromethane	ND	0.37	0.25	ND	0.044	0.030	
106-93-4	1,2-Dibromoethane	ND	0.37	0.20	ND	0.048	0.026	
111-65-9	**n-Octane**	**0.31**	1.9	0.19	**0.065**	0.40	0.040	**J**
127-18-4	**Tetrachloroethene**	**3.9**	0.37	0.19	**0.58**	0.055	0.027	
108-90-7	Chlorobenzene	ND	0.37	0.19	ND	0.081	0.041	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG94B-05** CAS Sample ID: P0801442-015
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00640

Initial Pressure (psig): -4.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.86

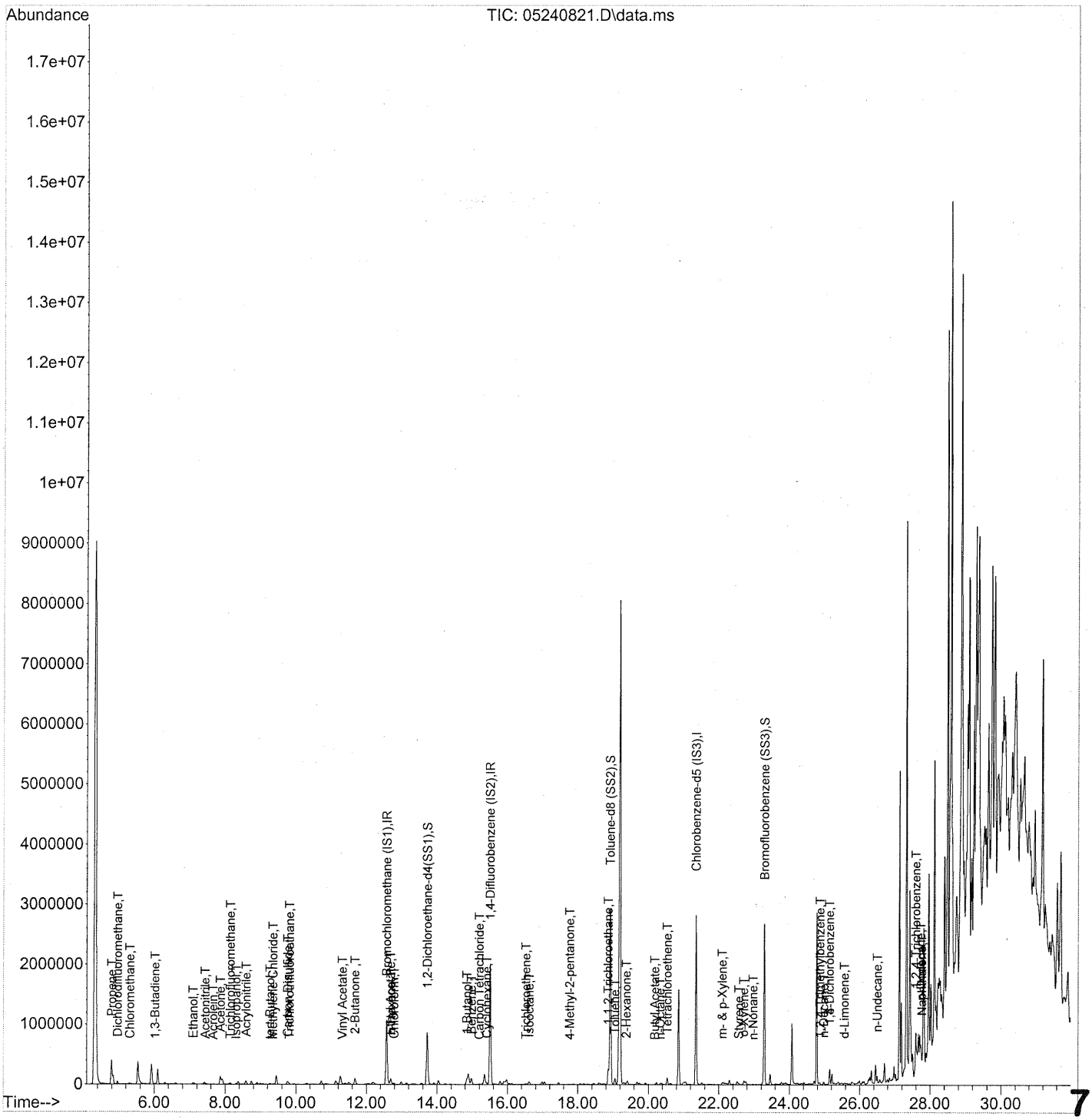
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	1.9	0.23	ND	0.43	0.053	
179601-23-1	**m,p-Xylenes**	**0.51**	1.9	0.48	**0.12**	0.43	0.11	**J**
75-25-2	Bromoform	ND	1.9	0.28	ND	0.18	0.027	
100-42-5	Styrene	ND	1.9	0.28	ND	0.44	0.066	
95-47-6	**o-Xylene**	**0.23**	1.9	0.23	**0.054**	0.43	0.054	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.37	0.24	ND	0.054	0.035	
98-82-8	Cumene	ND	1.9	0.21	ND	0.38	0.042	
103-65-1	n-Propylbenzene	ND	1.9	0.19	ND	0.38	0.039	
622-96-8	4-Ethyltoluene	ND	1.9	0.21	ND	0.38	0.043	
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.22	ND	0.38	0.045	
98-83-9	alpha-Methylstyrene	ND	1.9	0.27	ND	0.38	0.056	
95-63-6	**1,2,4-Trimethylbenzene**	**0.35**	1.9	0.26	**0.071**	0.38	0.052	**J**
100-44-7	Benzyl Chloride	ND	0.37	0.32	ND	0.072	0.062	
541-73-1	1,3-Dichlorobenzene	ND	0.37	0.23	ND	0.062	0.038	
106-46-7	**1,4-Dichlorobenzene**	**2.7**	0.37	0.21	**0.45**	0.062	0.035	
135-98-8	sec-Butylbenzene	ND	1.9	0.22	ND	0.34	0.039	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	1.9	0.24	ND	0.34	0.044	
95-50-1	1,2-Dichlorobenzene	ND	0.37	0.25	ND	0.062	0.041	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.28	ND	0.19	0.029	
120-82-1	1,2,4-Trichlorobenzene	ND	0.37	0.28	ND	0.050	0.038	
91-20-3	**Naphthalene**	**2.6**	0.74	0.28	**0.50**	0.14	0.053	
87-68-3	Hexachlorobutadiene	ND	0.37	0.33	ND	0.035	0.031	
98-06-6	tert-Butylbenzene	ND	0.74	0.19	ND	0.14	0.034	
104-51-8	n-Butylbenzene	ND	0.74	0.19	ND	0.14	0.034	

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

Verified By: RC Date: 6/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	564641	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2380094	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1098161	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	890784	22.768	ng		0.00
Spiked Amount 25.000			Recovery =	91.08%			✓
57) Toluene-d8 (SS2)	18.92	98	2476898	25.114	ng		0.00
Spiked Amount 25.000			Recovery =	100.44%			✓
73) Bromofluorobenzene (SS3)	23.29	174	1026405	25.592	ng		0.00
Spiked Amount 25.000			Recovery =	102.36%			✓
Target Compounds							Qvalue
2) Propene	4.80	42	202100	4.532	ng	#	81
3) Dichlorodifluoromethane	4.96	85	44123	0.537	ng		99
4) Chloromethane	5.32	50	3799	0.071	ng	#	41
5) Freon 114	5.53	135	1044	N.D.	✓		
6) Vinyl Chloride	0.00	62	0	N.D.	✓		
7) 1,3-Butadiene	6.02	54	2278	0.058	ng	#	34
8) Bromomethane	6.49	94	1128	N.D.	✓		
9) Chloroethane	6.81	64	158	N.D.	✓		
10) Ethanol	7.10	45	54882m	1.849	ng		
11) Acetonitrile	7.43	41	26275	0.306	ng		95
12) Acrolein	7.66	56	5112	0.241	ng		78
13) Acetone	7.87	58	64589	2.125	ng	#	25
14) Trichlorofluoromethane	8.14	101	20110	0.285	ng		97
15) Isopropanol	8.32	45	29336	0.303	ng		96
16) Acrylonitrile	8.59	53	6388	~~0.138~~	ng	NR#	27
17) 1,1-Dichloroethene	9.16	96	1089	N.D.	✓		
18) tert-Butanol	9.27	59	14845m	0.180	ng		
19) Methylene Chloride	9.36	84	3107	0.091	ng		84
20) Allyl Chloride	9.55	41	1593	N.D.			
21) Trichlorotrifluoroethane	9.81	151	4372	0.136	ng		85
22) Carbon Disulfide	9.77	76	109730	0.851	ng		98
23) trans-1,2-Dichloroethene	10.74	61	208	N.D.	✓		
24) 1,1-Dichloroethane	11.26	63	812	N.D.	✓		
25) Methyl tert-Butyl Ether	11.19	73	131	N.D.	✓		
26) Vinyl Acetate	11.32	86	2276	0.405	ng	#	1
27) 2-Butanone	11.68	72	40751	1.837	ng	#	84
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓		
29) Diisopropyl Ether	12.70	87	220	N.D.	✓		
30) Ethyl Acetate	12.69	61	10882	0.909	ng		82
31) n-Hexane	12.70	57	28765	0.476	ng		88

752

Quantitation Report (QT Reviewed)

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Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.79	83	20763	0.403 ng		100
34) Tetrahydrofuran	13.38	72	802	N.D.		
35) Ethyl tert-Butyl Ether	13.47	87	93	N.D. ✓		
36) 1,2-Dichloroethane	13.90	62	56	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	542	N.D. ✓		
39) Isopropyl Acetate	14.90	61	229	N.D.		
40) 1-Butanol	14.85	56	94665	2.894 ng	#	4
41) Benzene	14.98	78	119969	0.963 ng		100
42) Carbon Tetrachloride	15.20	117	5206	0.108 ng		93
43) Cyclohexane	15.41	84	9994	0.206 ng	#	1
44) tert-Amyl Methyl Ether	15.86	73	760	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	83	N.D. ✓		
46) Bromodichloromethane	16.48	83	252	N.D. ✓		
47) Trichloroethene	16.53	130	4144	0.108 ng		98
48) 1,4-Dioxane	16.50	88	309	N.D. ✓		
49) Isooctane	16.62	57	58344	0.408 ng		84
50) Methyl Methacrylate	16.62	100	138	N.D. ✓		
51) n-Heptane	16.98	71	1415	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	1675	0.051 ng	<MDL	71
54) trans-1,3-Dichloropropene	18.63	75	52	N.D. ✓		
55) 1,1,2-Trichloroethane	18.87	97	3496	0.114 ng	JR#	32
58) Toluene	19.06	91	60272	0.450 ng		97
59) 2-Hexanone	19.38	43	13735	0.149 ng	#	45
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	5926	0.063 ng		92
63) n-Octane	20.34	57	2418	0.082 ng	#	73
64) Tetrachloroethene	20.54	166	41661	1.050 ng		100
65) Chlorobenzene	21.40	112	894	N.D. ✓		
66) Ethylbenzene	21.88	91	7251	N.D. ✓		
67) m- & p-Xylene	22.10	91	14038	0.137 ng		88
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	6000	0.065 ng	<MDL	82
70) o-Xylene	22.71	91	6985	0.063 ng		84
71) n-Nonane	22.98	43	4518	0.057 ng		81
72) 1,1,2,2-Tetrachloroethane	22.67	83	67	N.D. ✓		
74) Cumene	23.46	105	1554	N.D. ✓		
75) alpha-Pinene	23.95	93	2016	N.D.		
76) n-Propylbenzene	24.10	91	3112	N.D. ✓		
77) 3-Ethyltoluene	24.22	105	6980	N.D.		
78) 4-Ethyltoluene	24.28	105	3323	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.37	105	3804	N.D. ✓		

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JDA 5/29/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	3007	N.D. ✓		
81) 2-Ethyltoluene	24.61	105	4267	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	12626	0.094 ng		82
83) n-Decane	24.98	57	17292	0.233 ng	#	70
84) Benzyl Chloride	25.04	91	906	N.D. ✓		
85) 1,3-Dichlorobenzene	25.15	146	59664	~~0.707 ng~~ NR		97
86) 1,4-Dichlorobenzene	25.15	146	59664	0.730 ng		98
87) sec-Butylbenzene	25.21	105	843	N.D. ✓		
88) p-Isopropyltoluene	25.40	119	3297	N.D. ✓		
89) 1,2,3-Trimethylbenzene	25.40	105	4671	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	312	N.D. ✓		
91) d-Limonene	25.57	68	5623	0.105 ng		80
92) 1,2-Dibromo-3-Chloropr...	26.51	157	112	N.D. ✓		
93) n-Undecane	26.50	57	43310	0.558 ng	#	69
94) 1,2,4-Trichlorobenzene	27.60	180	17302	~~0.295 ng~~ NR	#	13
95) Naphthalene	27.77	128	125019	0.703 ng		97
96) n-Dodecane	27.74	57	93770	1.214 ng		78
97) Hexachloro-1,3-butadiene	28.19	225	496	N.D.		

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

754

TOM 5/29/08

Quantitation Report (Qedit)

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Acq On : 24 May 2008 20:54
Operator : WA
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Misc : ENSR SG94B-05 (-4.9, 3.5)
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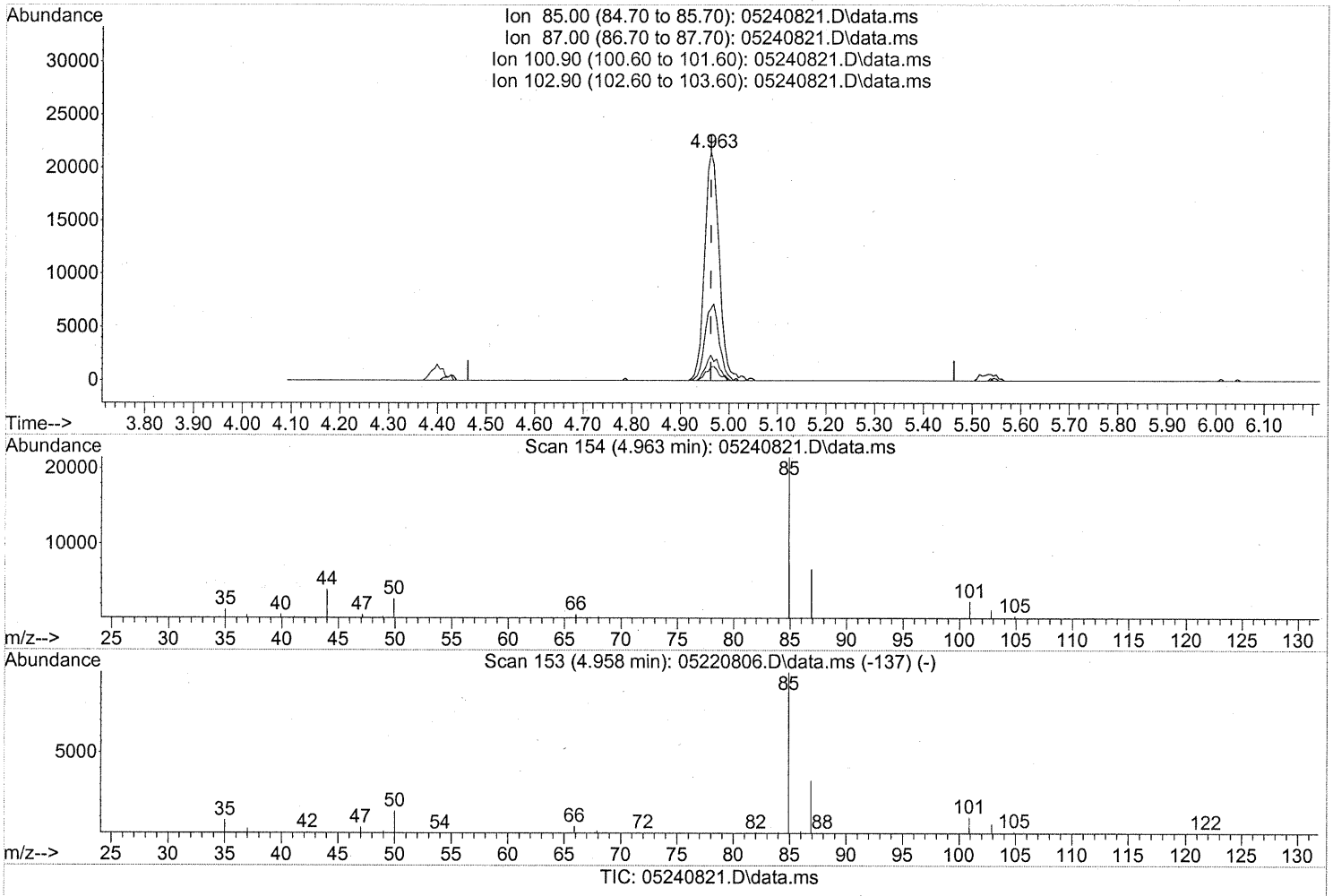
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 0.54ng

response 44123

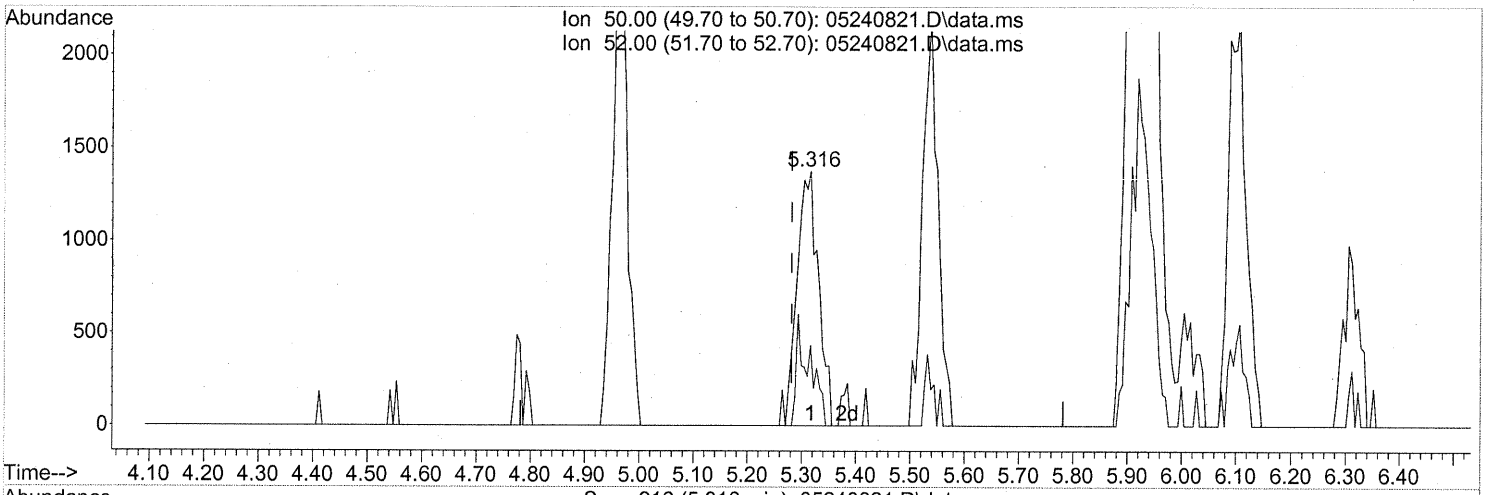
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.64
100.90	9.30	9.54
102.90	6.00	5.39

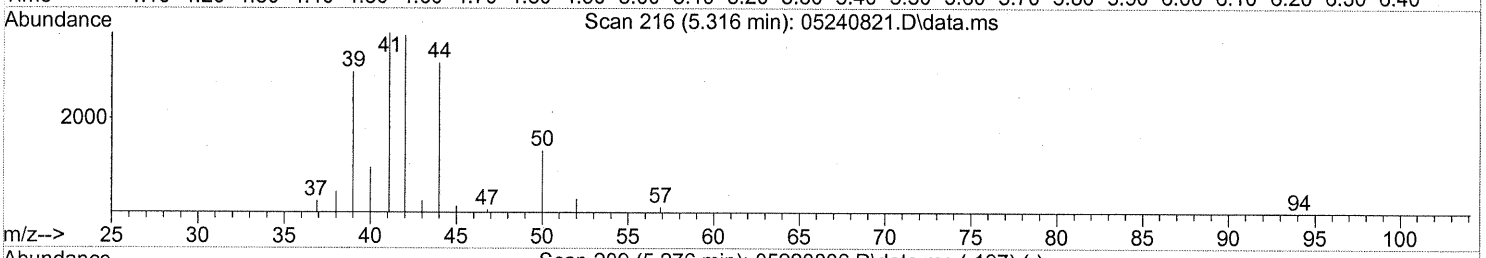
755

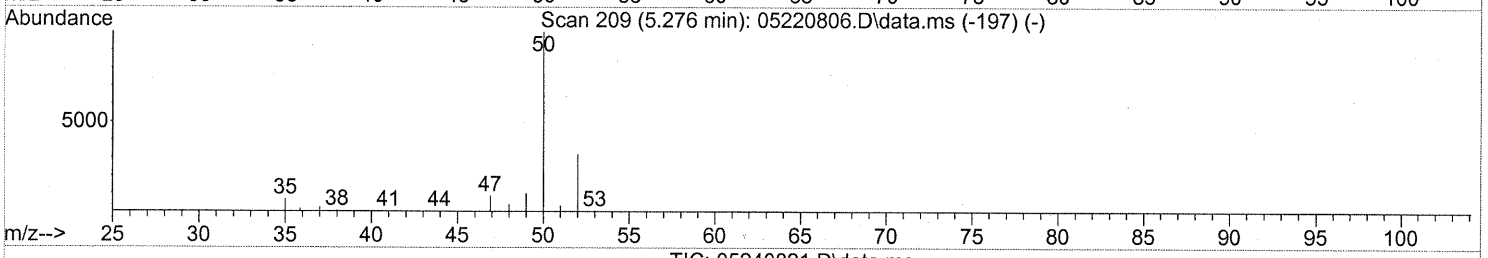
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(4) Chloromethane (T)

5.316min (+0.034) 0.07ng

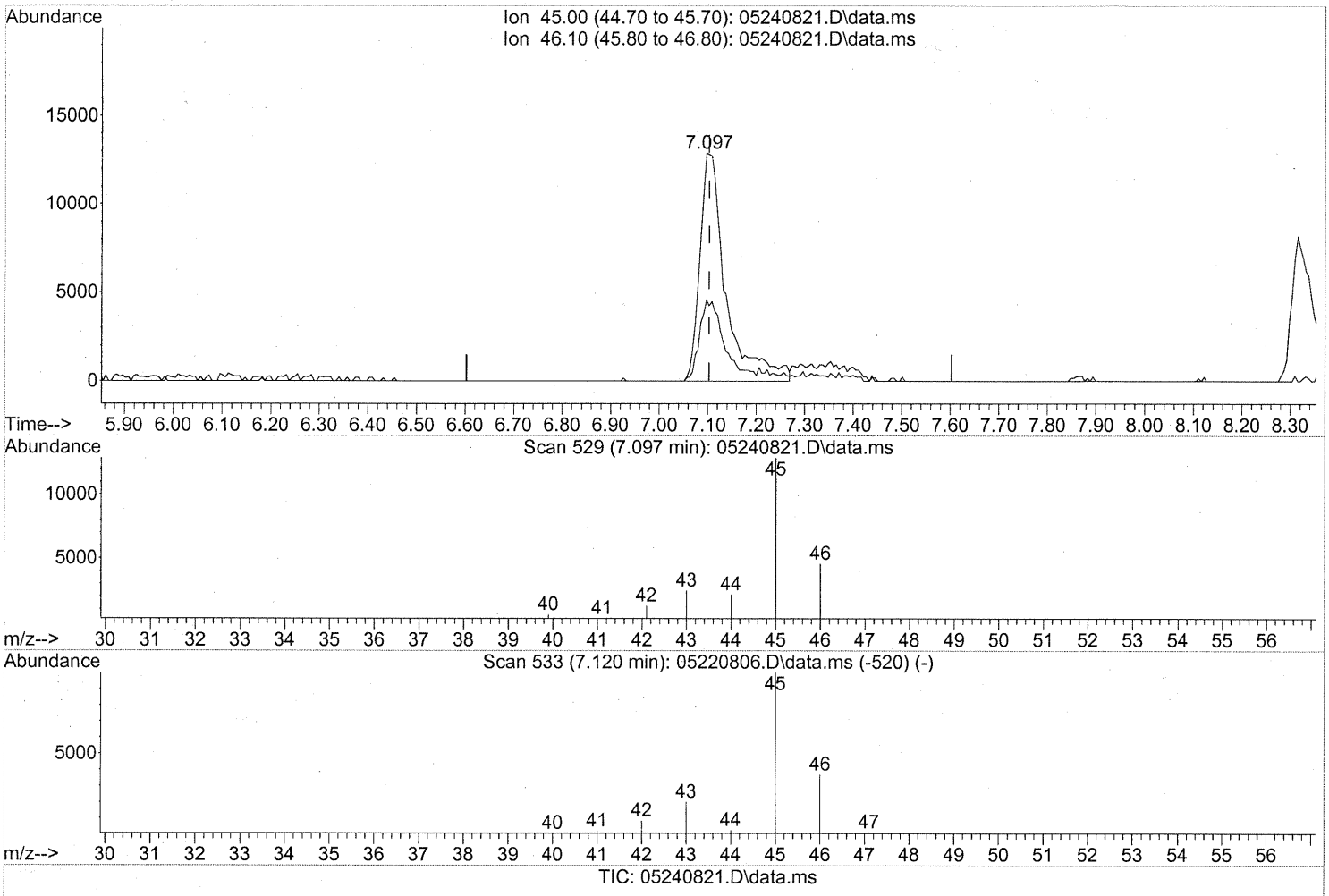
response 3799

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801422-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 09:05:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 1.60ng

response 47377

split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.01
0.00	0.00	0.00
0.00	0.00	0.00

757

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
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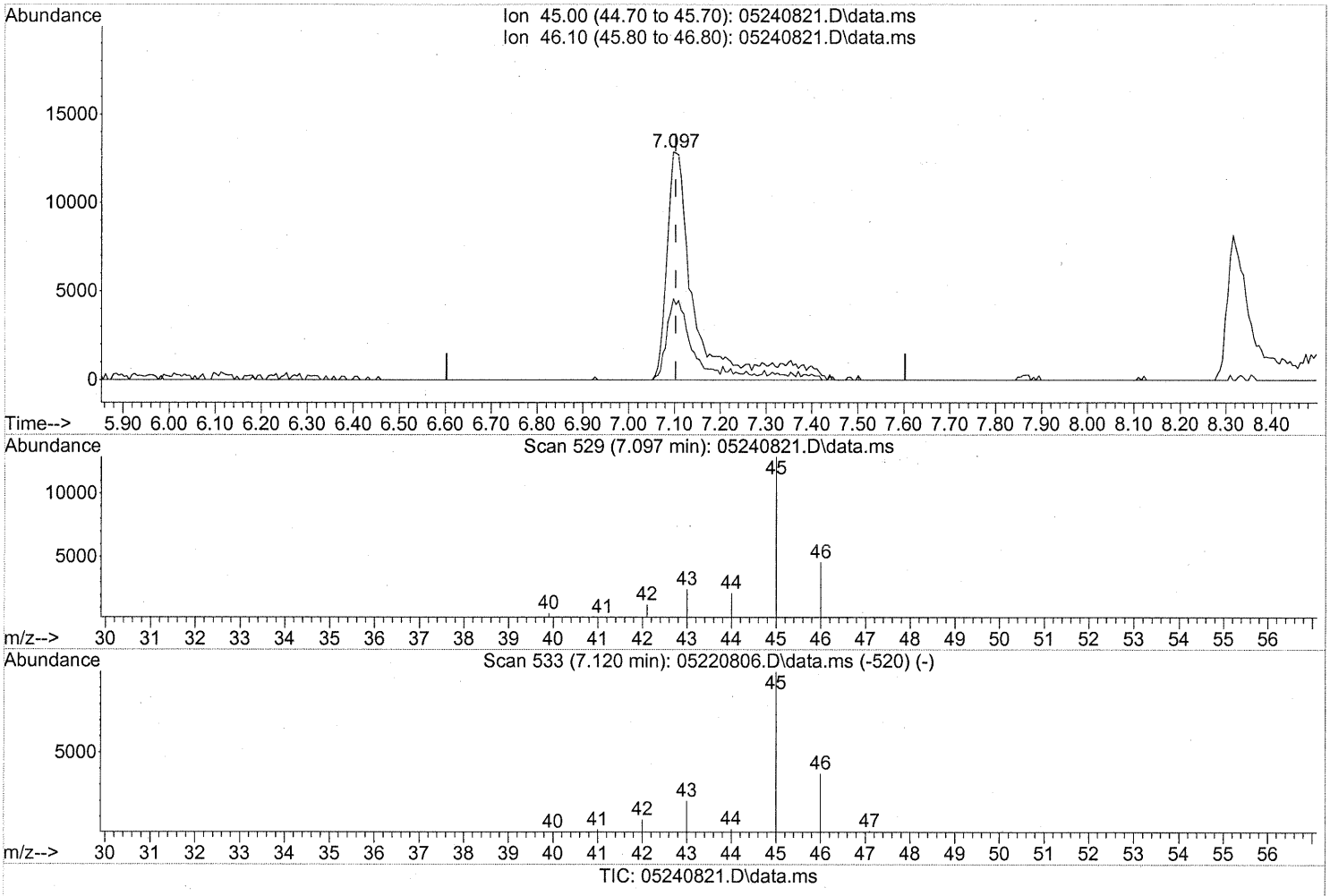
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 1.85ng m

response 54882

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.36
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

DA 5/29/08

WA 5/30/08

758

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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Acq On : 24 May 2008 20:54
Operator : WA
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Misc : ENSR SG94B-05 (-4.9, 3.5)
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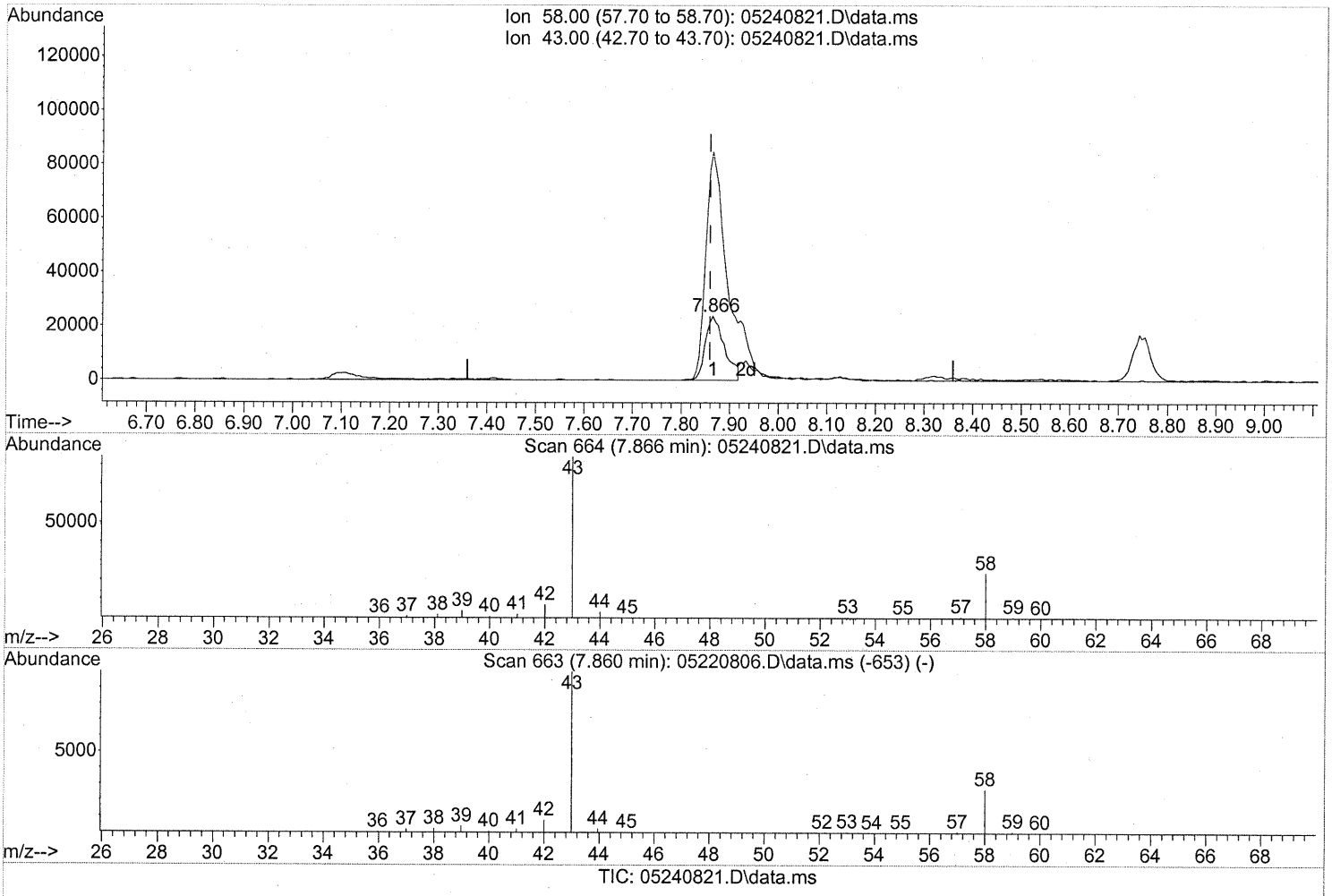
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(13) Acetone (T)

7.866min (+0.006) 2.12ng

response 64589

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	423.90#
0.00	0.00	0.00
0.00	0.00	0.00

759

Quantitation Report (Qedit)

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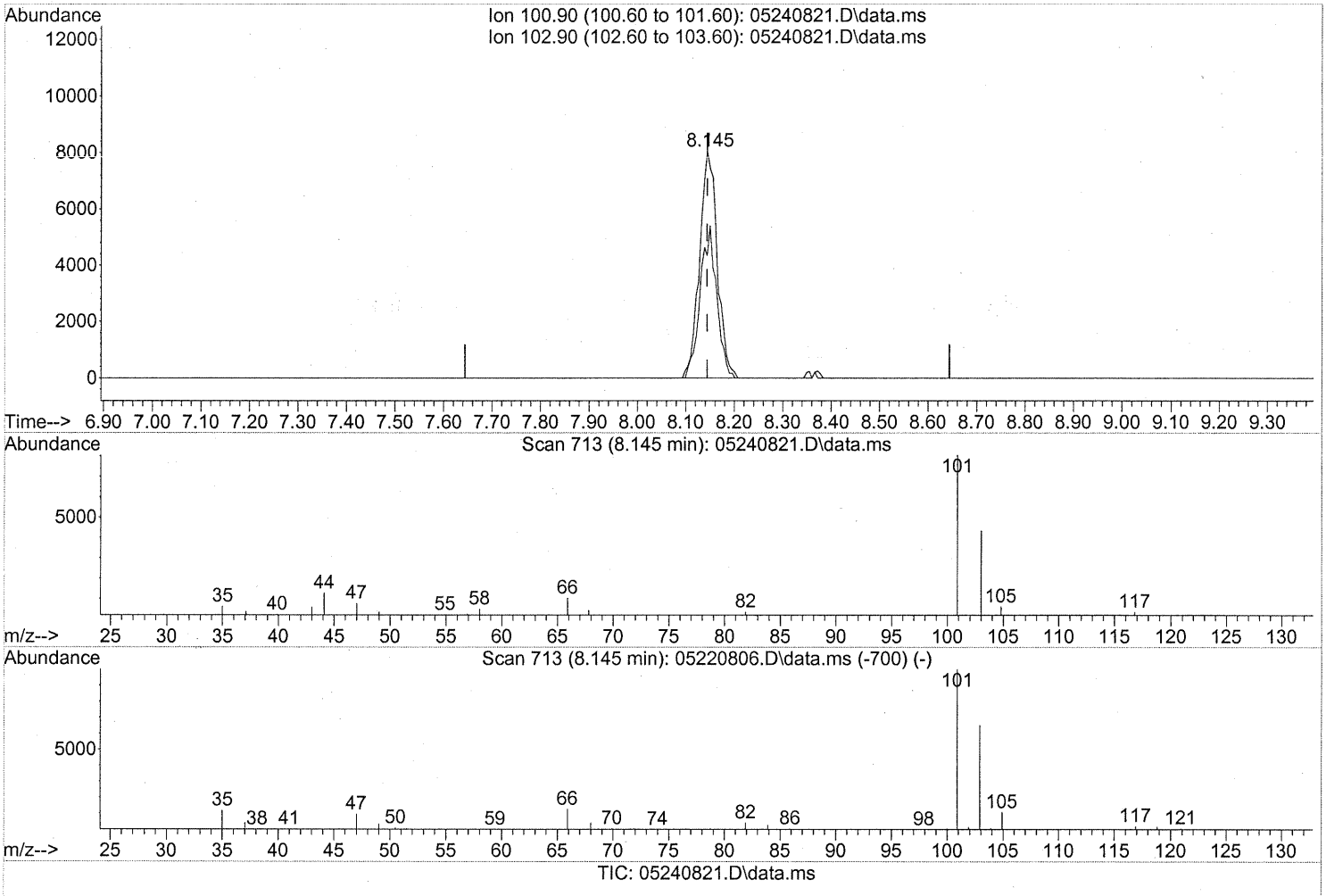
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.29ng

response 20110

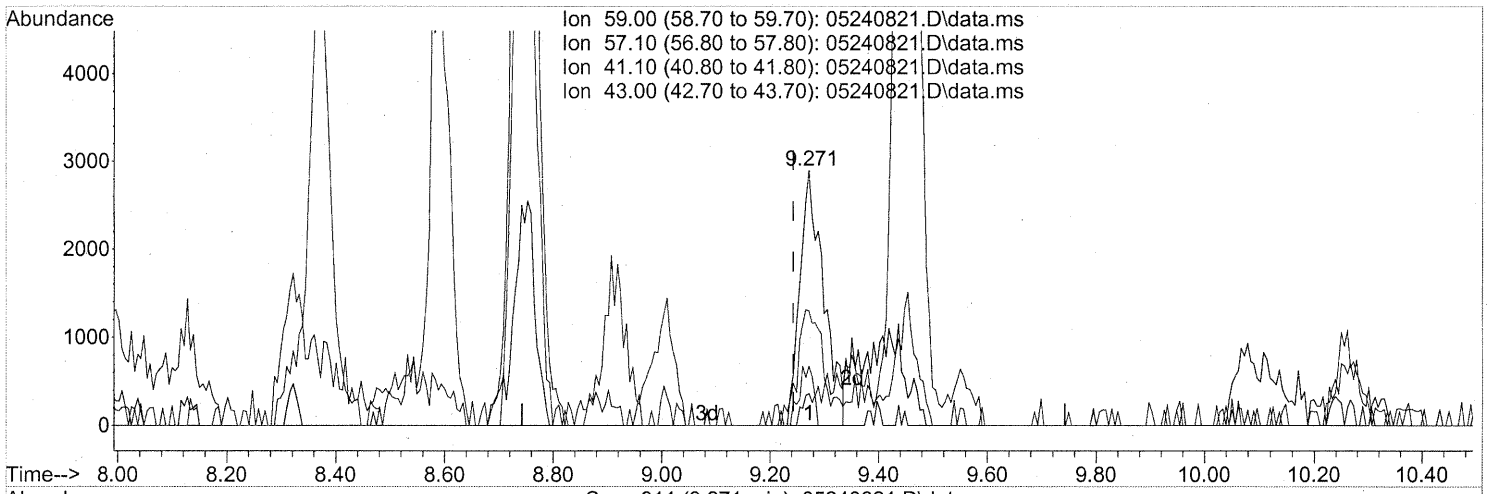
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	62.53
0.00	0.00	0.00
0.00	0.00	0.00

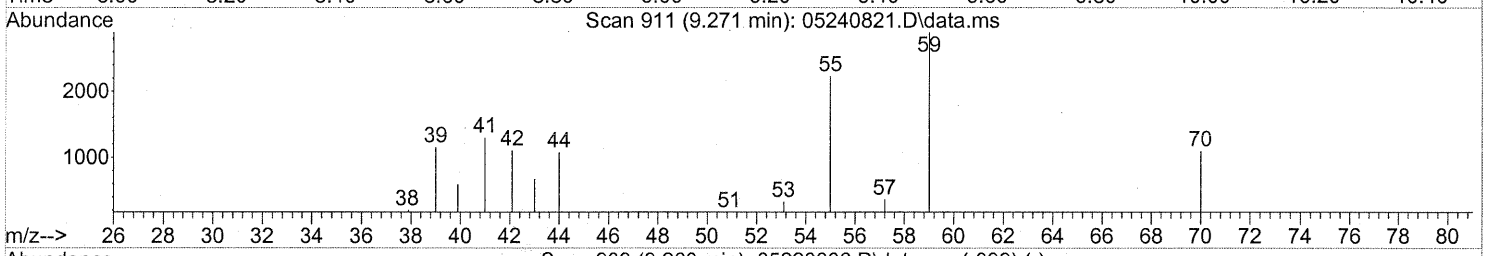
760

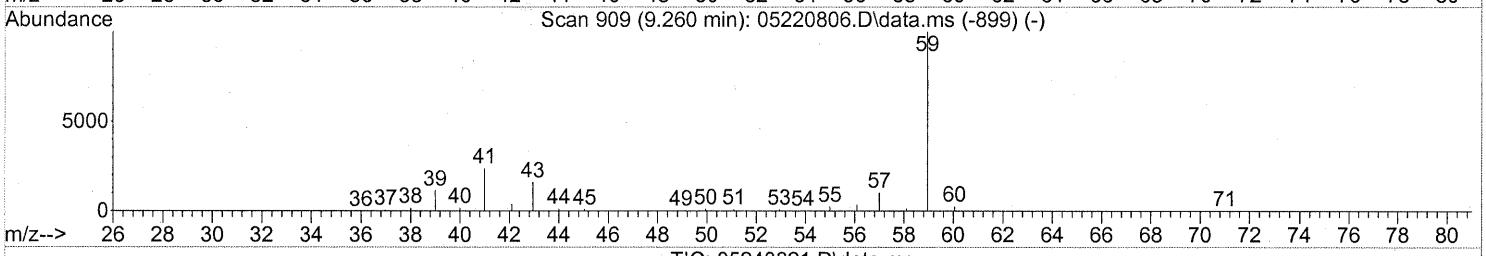
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801422-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 09:05:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(18) tert-Butanol (T)

9.271min (+0.028) 0.11ng

response 8767

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.63
41.10	20.10	52.69#
43.00	12.30	16.55

split peaks

761

Quantitation Report (Qedit)

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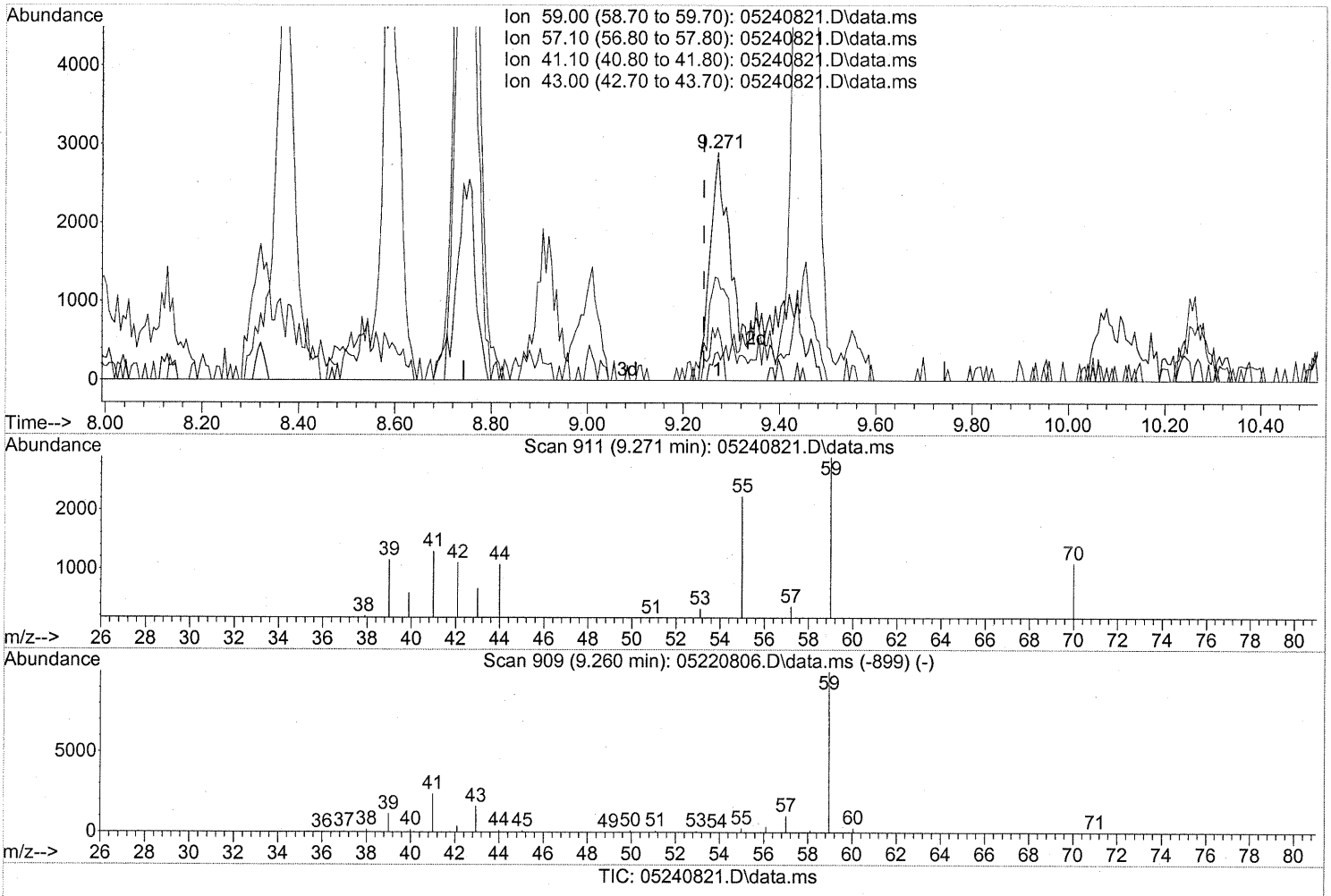
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.18ng m

response 14845

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.91
41.10	20.10	31.11
43.00	12.30	9.77

int. whole peaks

5/29/08

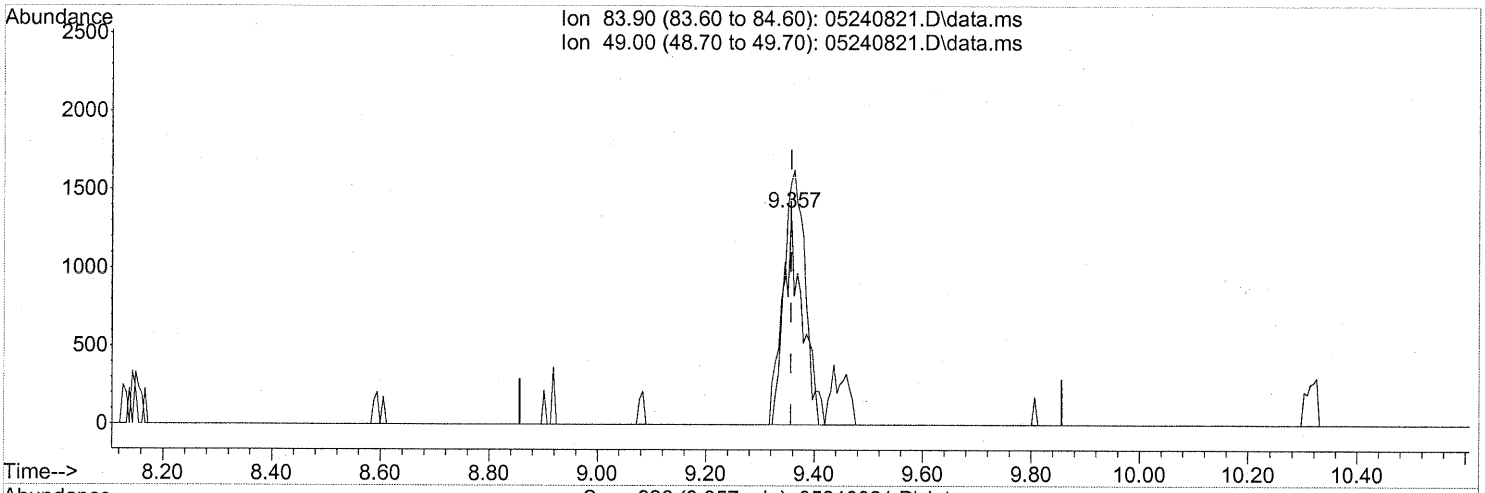
5/30/08

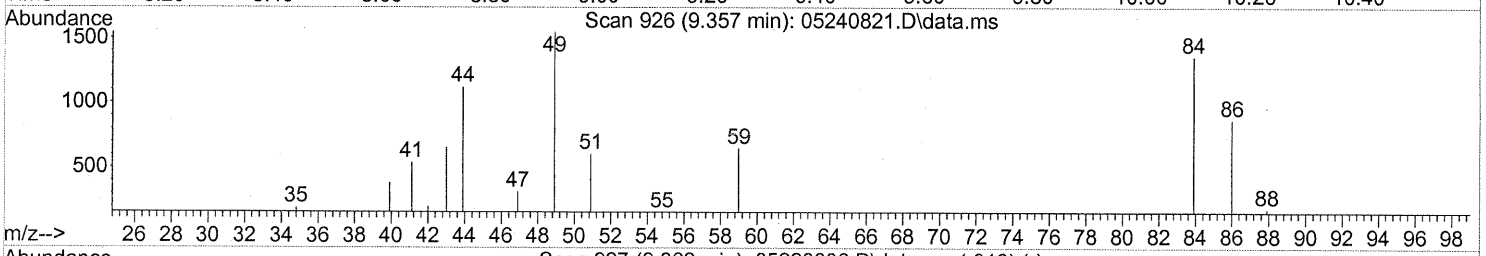
762

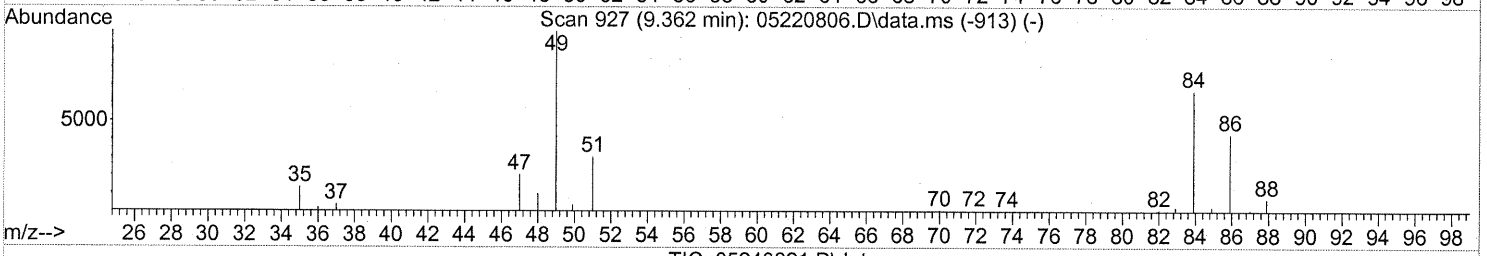
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 0.09ng

response 3107

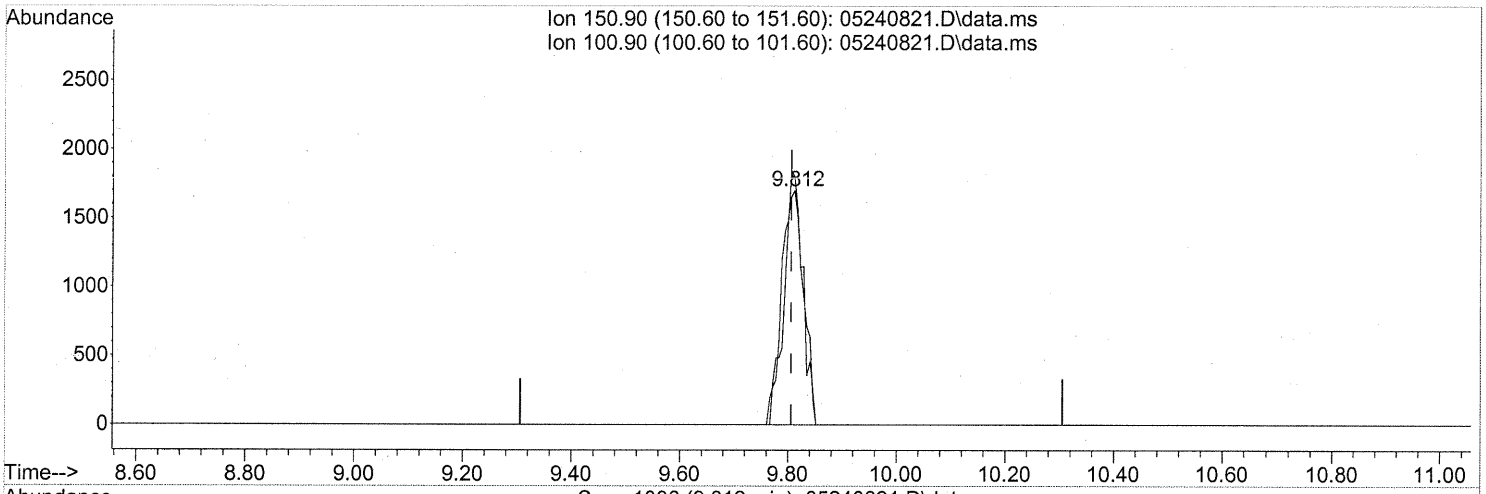
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	151.30
0.00	0.00	0.00
0.00	0.00	0.00

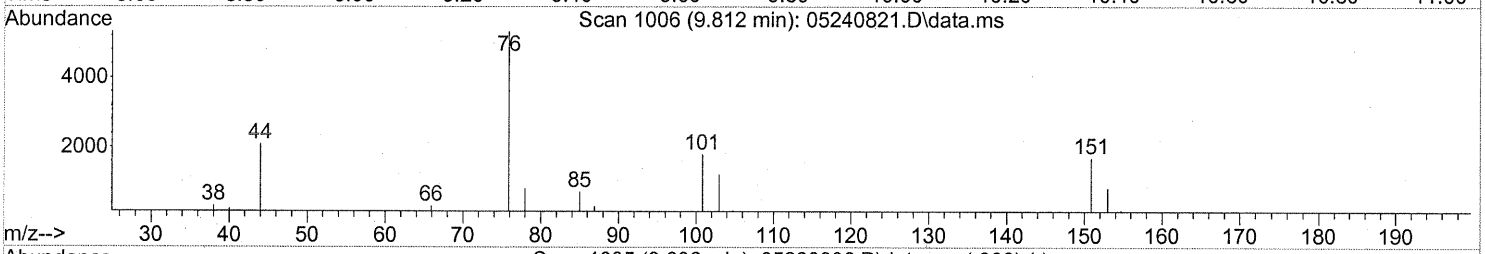
763

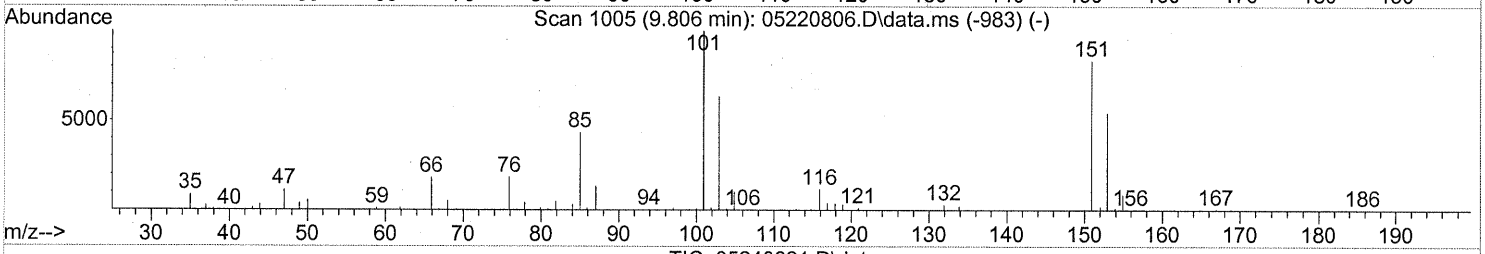
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.14ng

response 4372

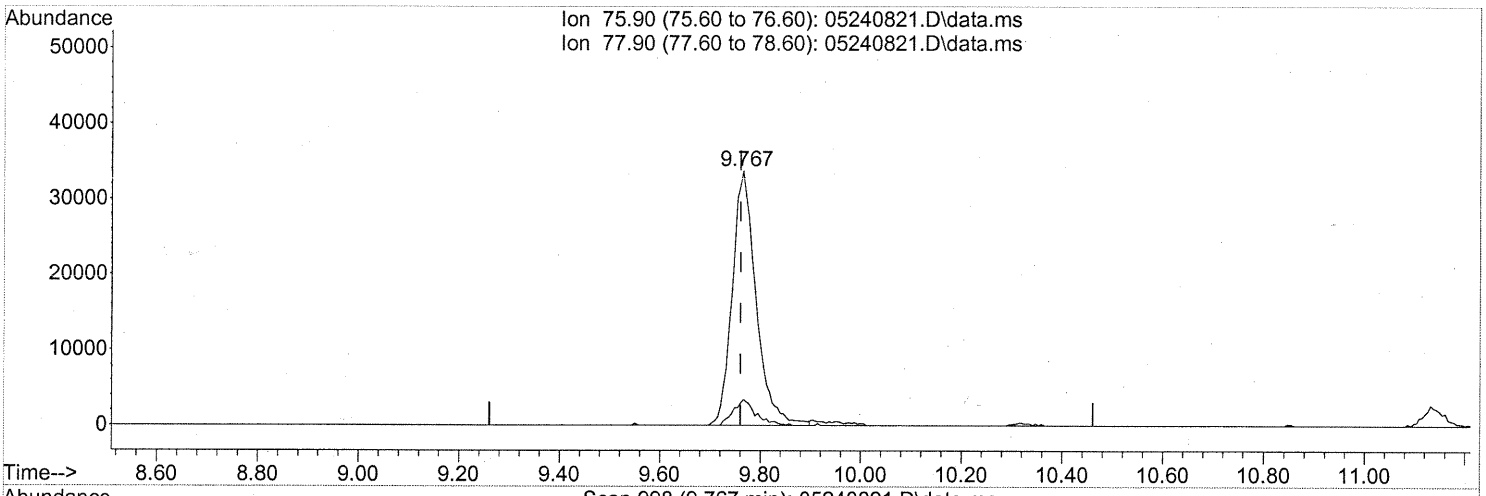
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	109.77
0.00	0.00	0.00
0.00	0.00	0.00

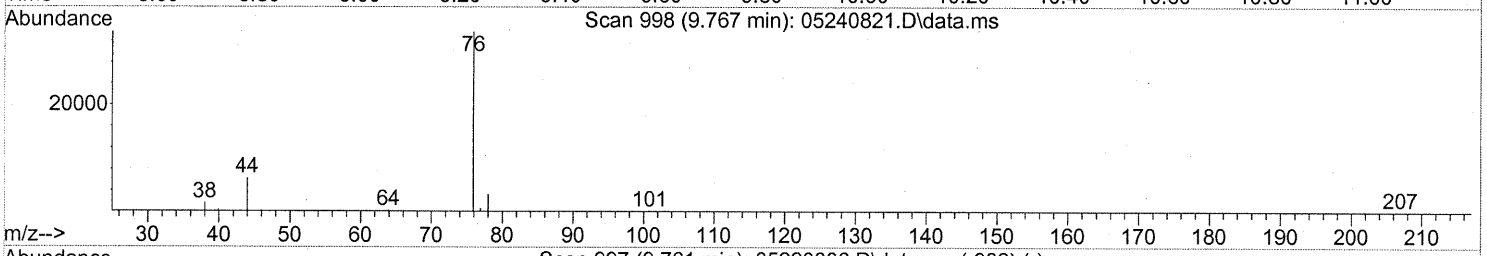
764

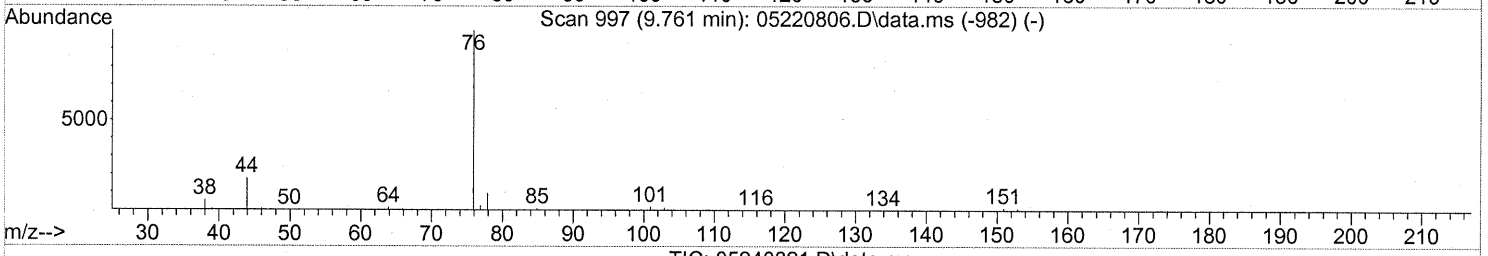
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(22) Carbon Disulfide (T)

9.767min (+0.006) 0.85ng

response 109730

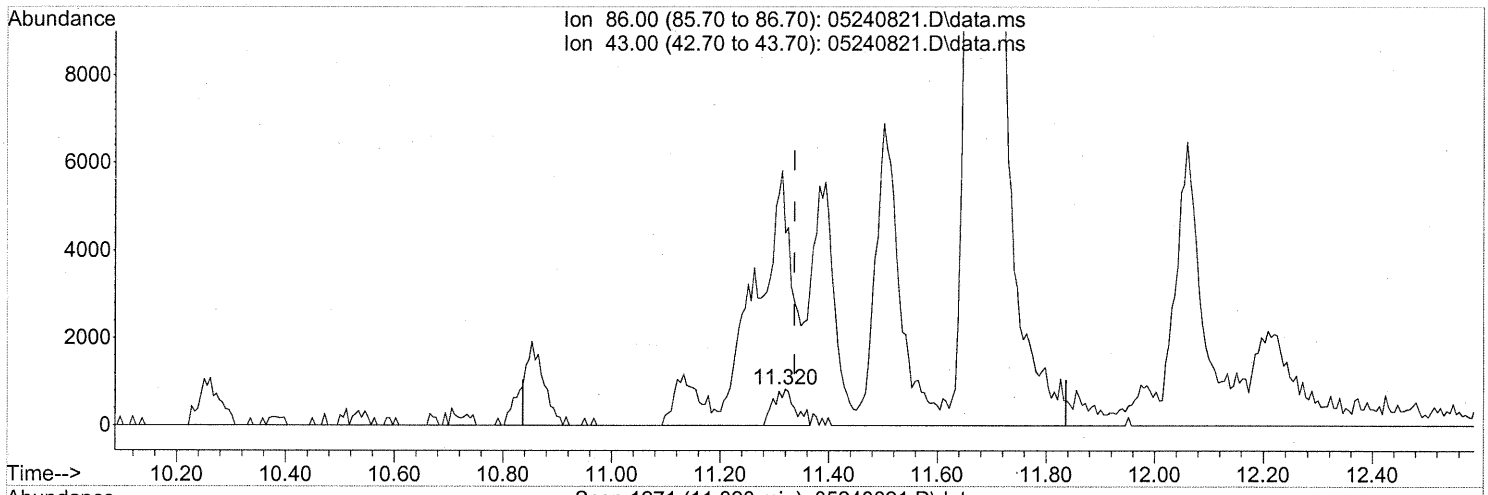
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.35
0.00	0.00	0.00
0.00	0.00	0.00

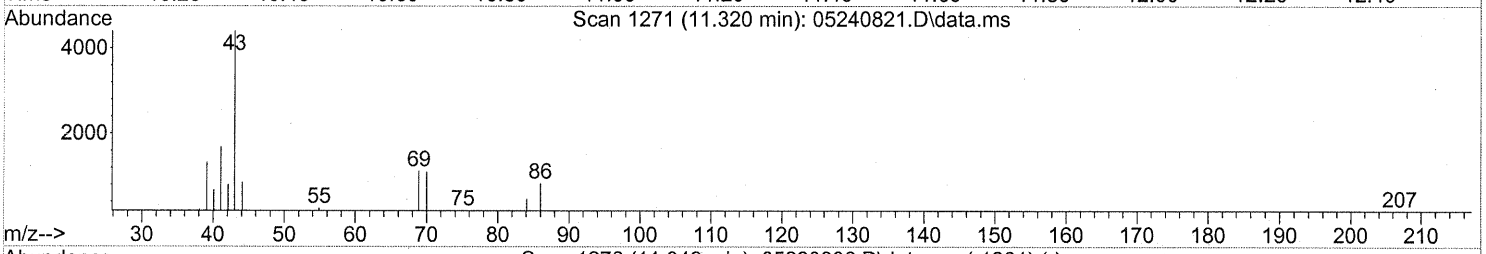
765

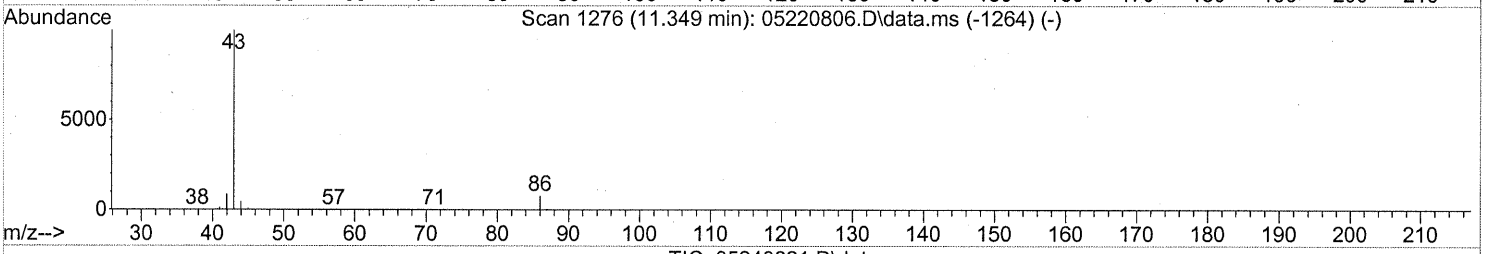
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(26) Vinyl Acetate (T)

11.320min (-0.017) 0.41ng

response 2276

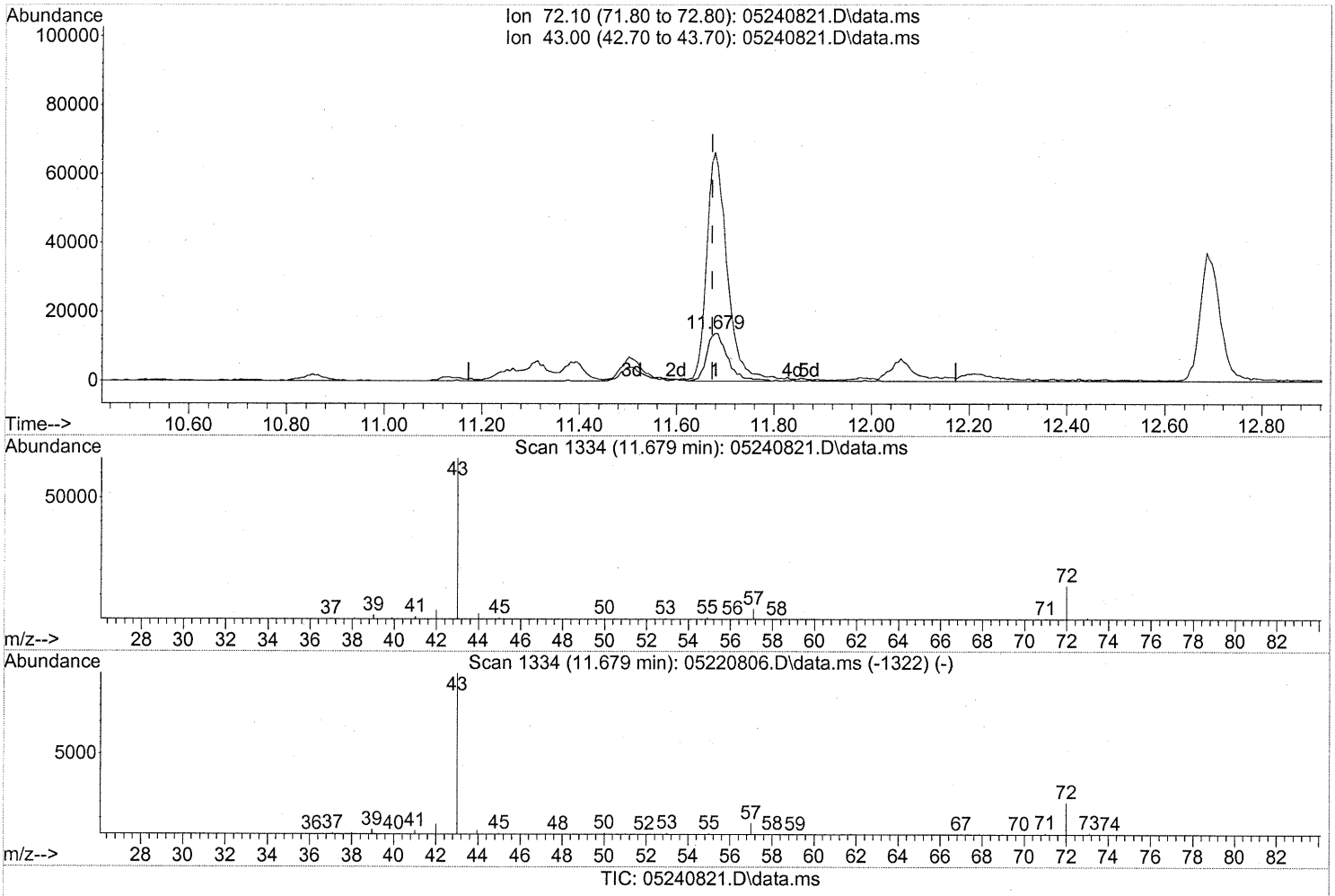
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	642.49#
0.00	0.00	0.00
0.00	0.00	0.00

766

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 1.84ng

response 40751

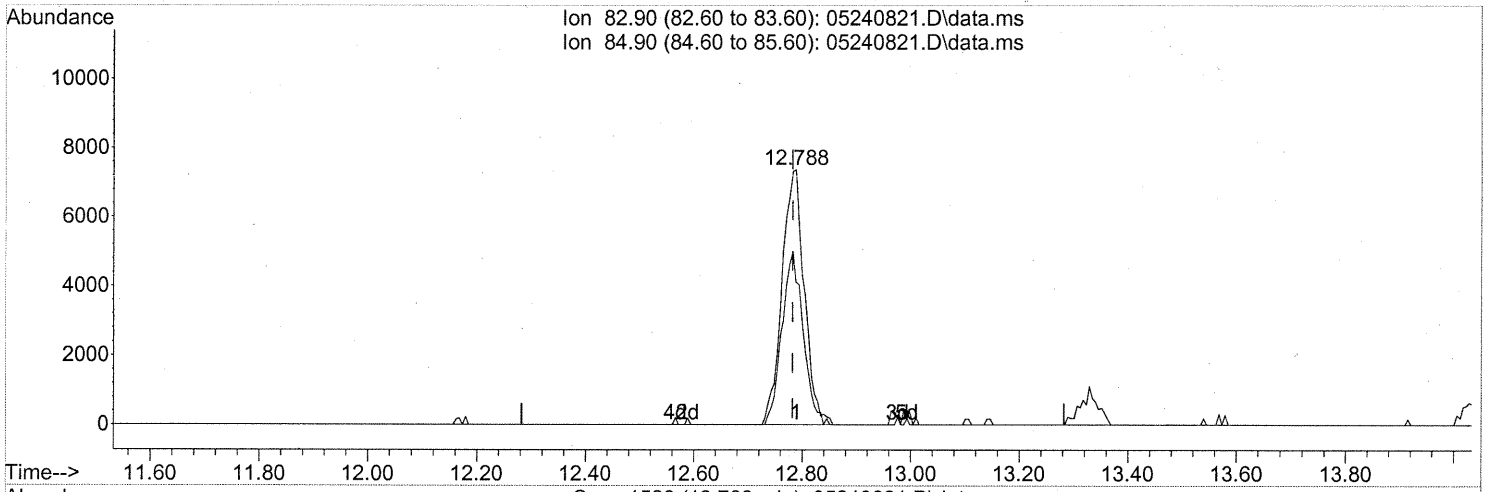
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	462.65#
0.00	0.00	0.00
0.00	0.00	0.00

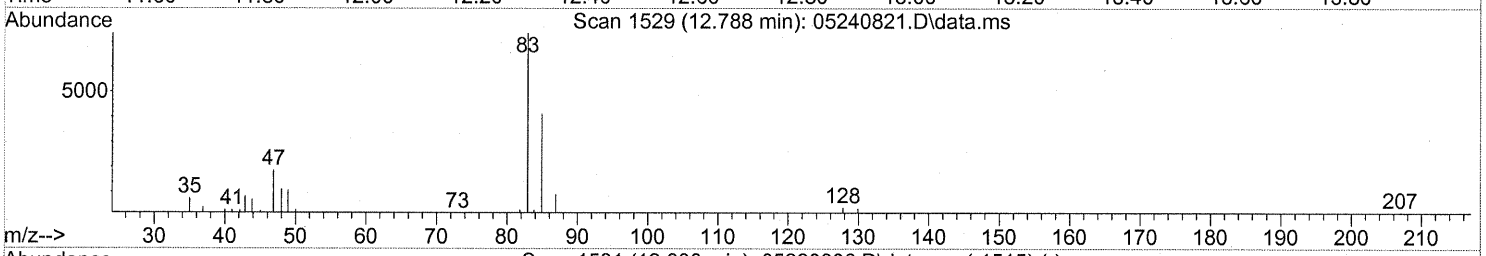
767

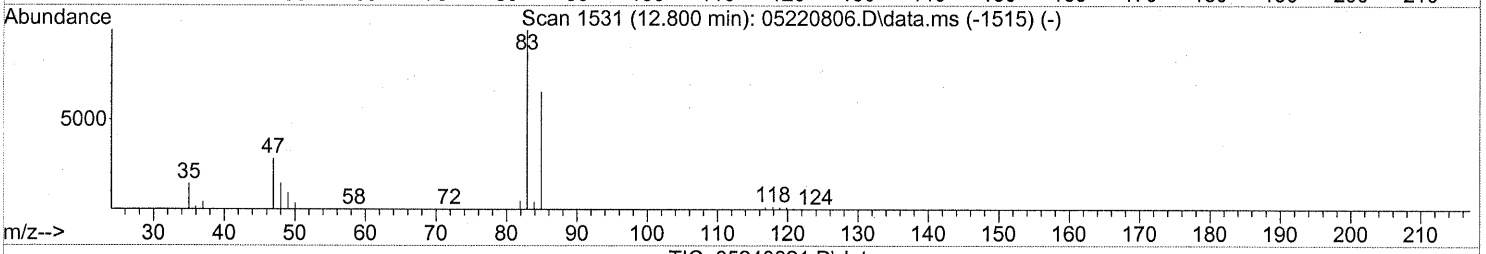
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(32) Chloroform (T)

12.788min (+0.006) 0.40ng

response 20763

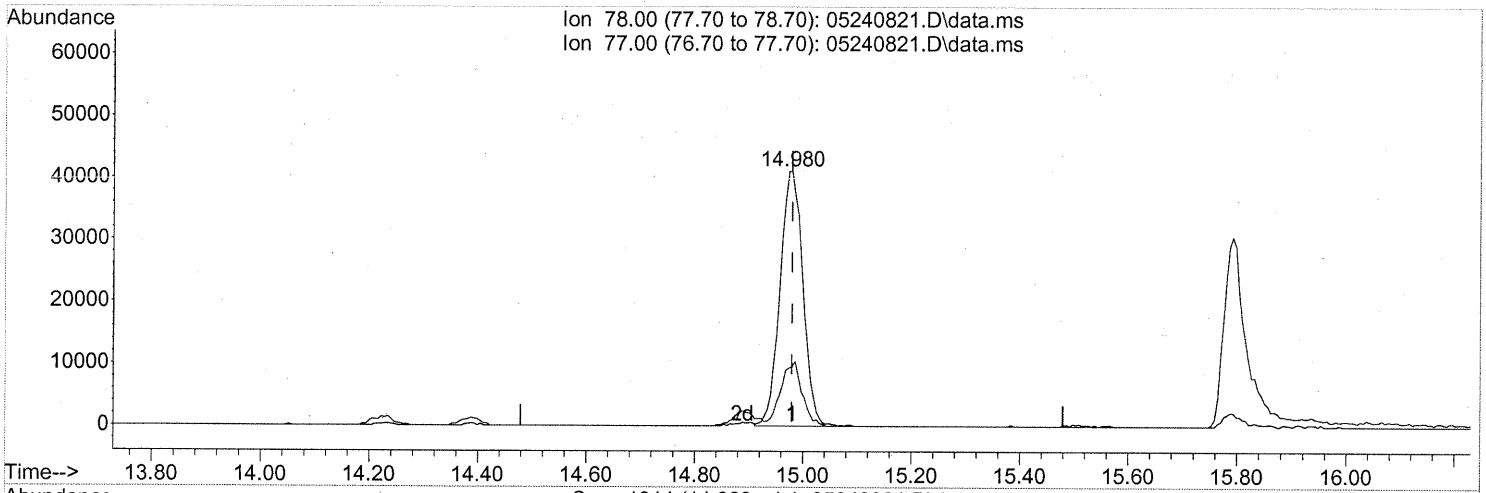
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.40
0.00	0.00	0.00
0.00	0.00	0.00

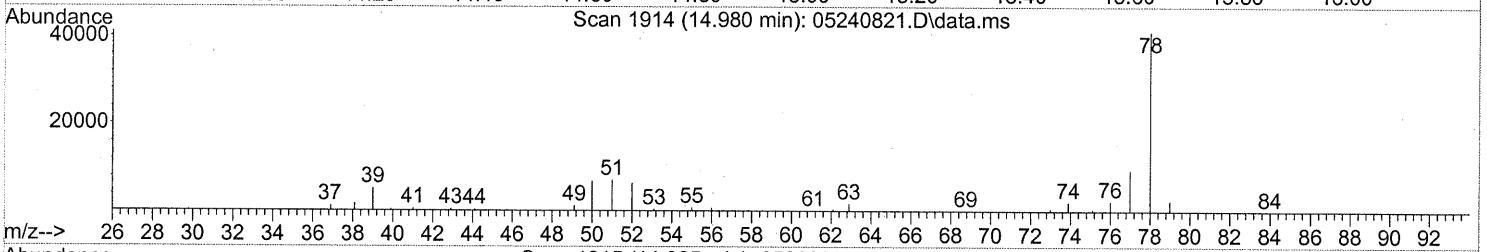
768

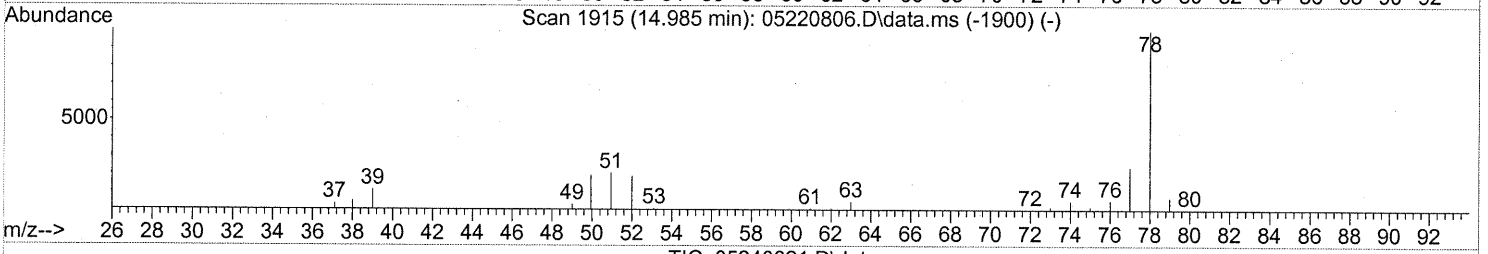
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240821.D\data.ms

(41) Benzene (T)

14.980min (-0.000) 0.96ng

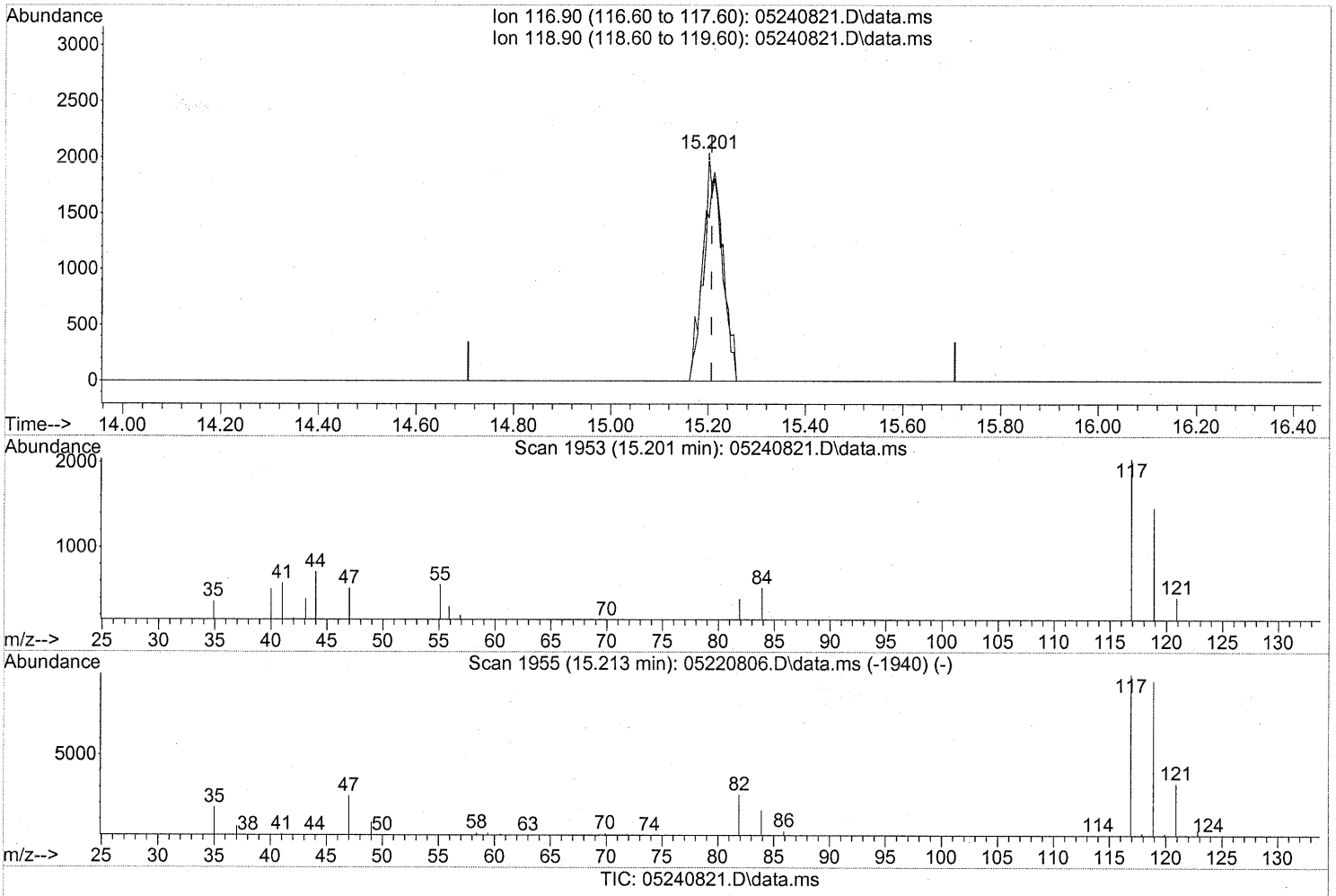
response 119969

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.43
0.00	0.00	0.00
0.00	0.00	0.00

769

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(42) Carbon Tetrachloride (T)

15.201min (-0.006) 0.11ng

response 5206

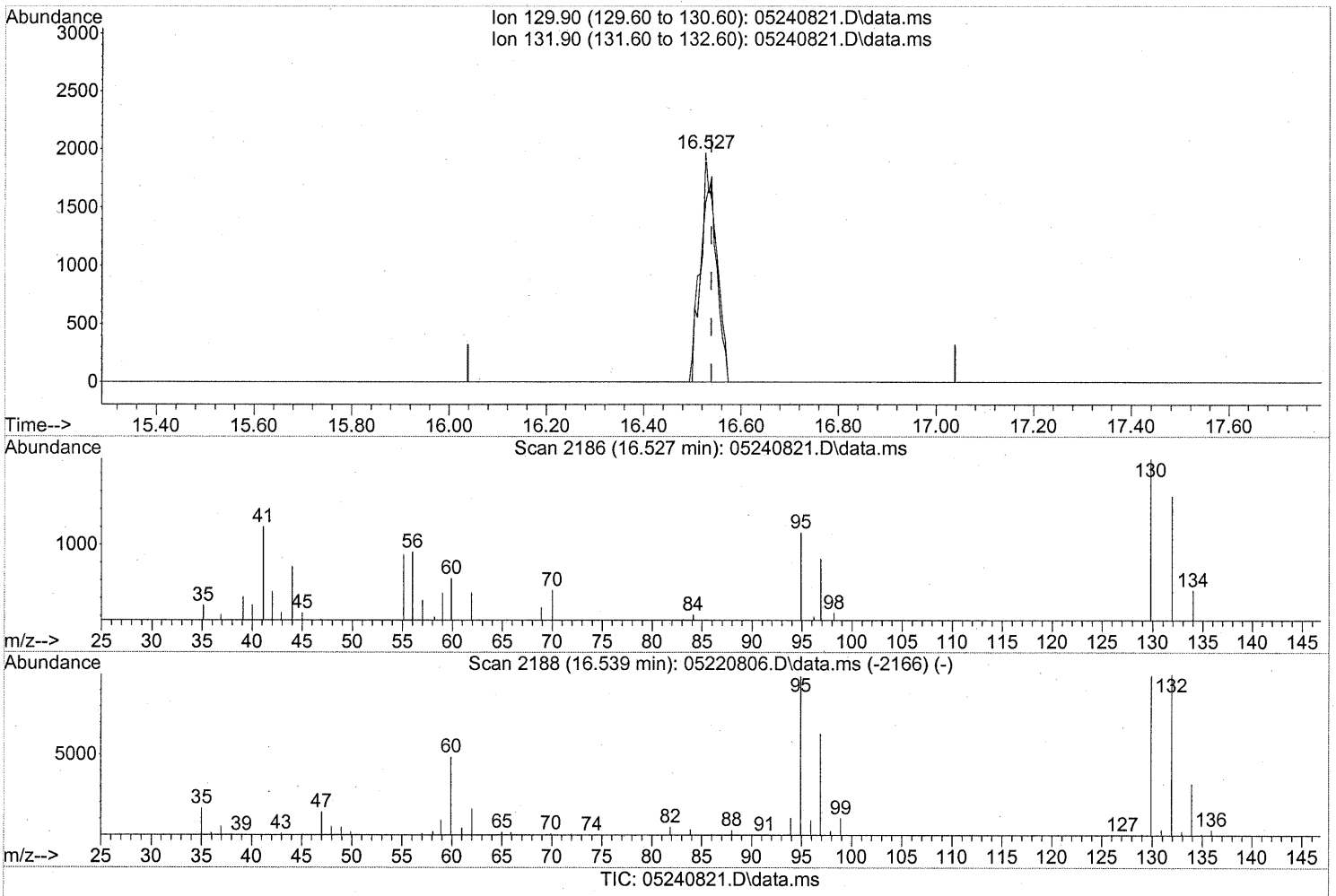
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	103.73
0.00	0.00	0.00
0.00	0.00	0.00

770

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(47) Trichloroethene (T)

16.527min (-0.011) 0.11ng

response 4144

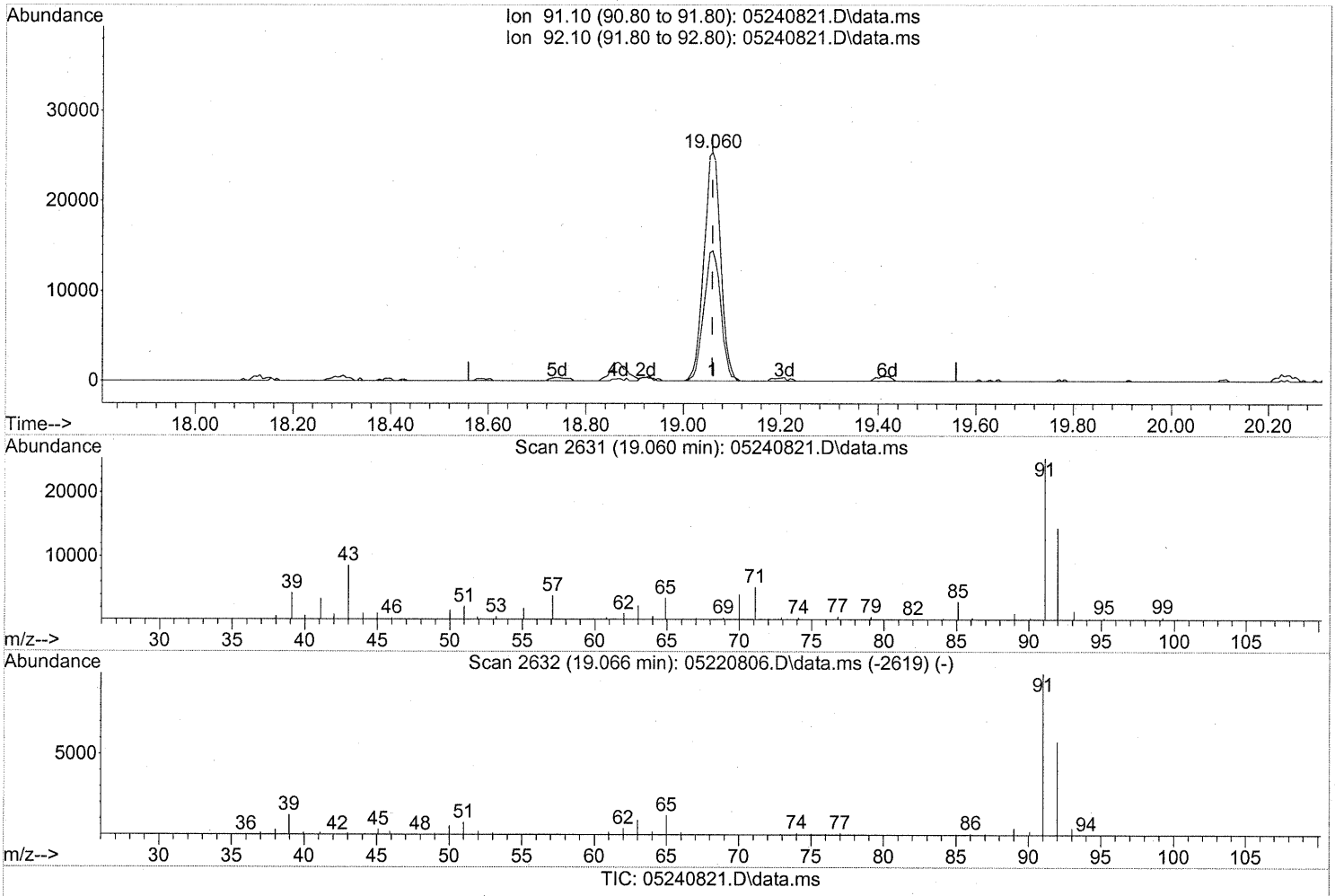
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	103.33
0.00	0.00	0.00
0.00	0.00	0.00

771

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(58) Toluene (T)

19.060min (0.000) 0.45ng

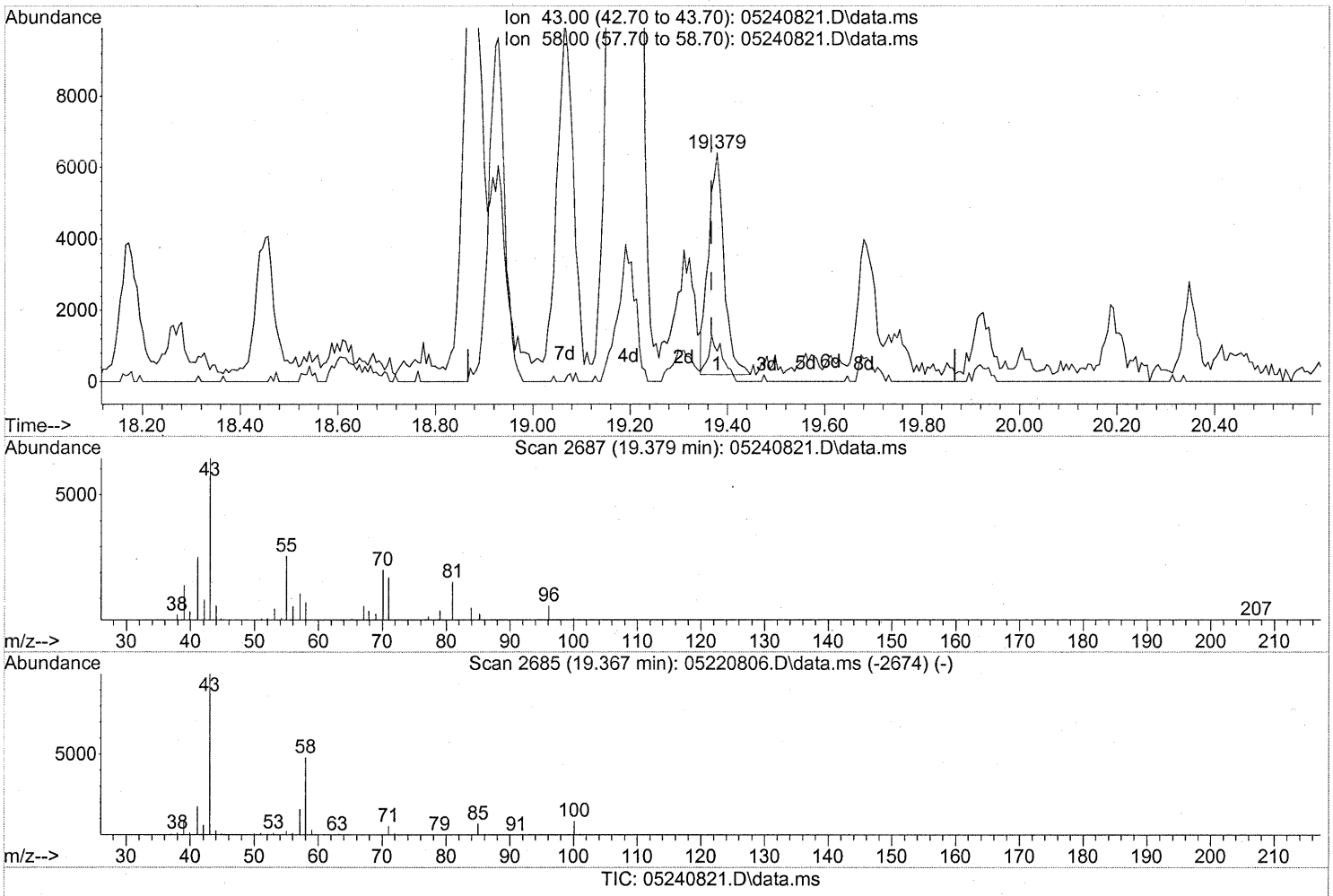
response 60272

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(59) 2-Hexanone (T)

19.379min (+0.011) 0.15ng

response 13735

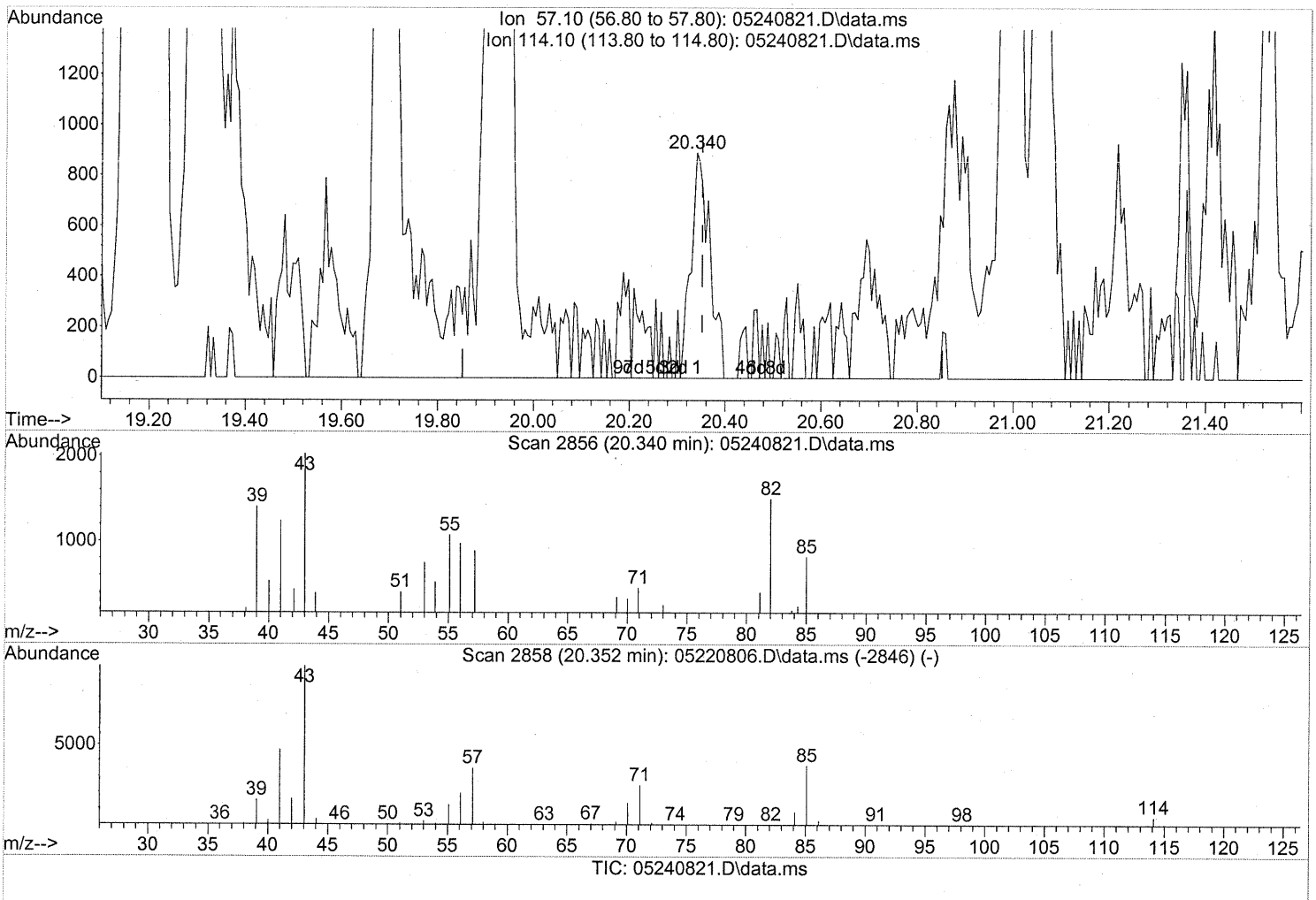
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	19.59#
0.00	0.00	0.00
0.00	0.00	0.00

773

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(63) n-Octane (T)

20.340min (-0.011) 0.08ng

response 2418

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
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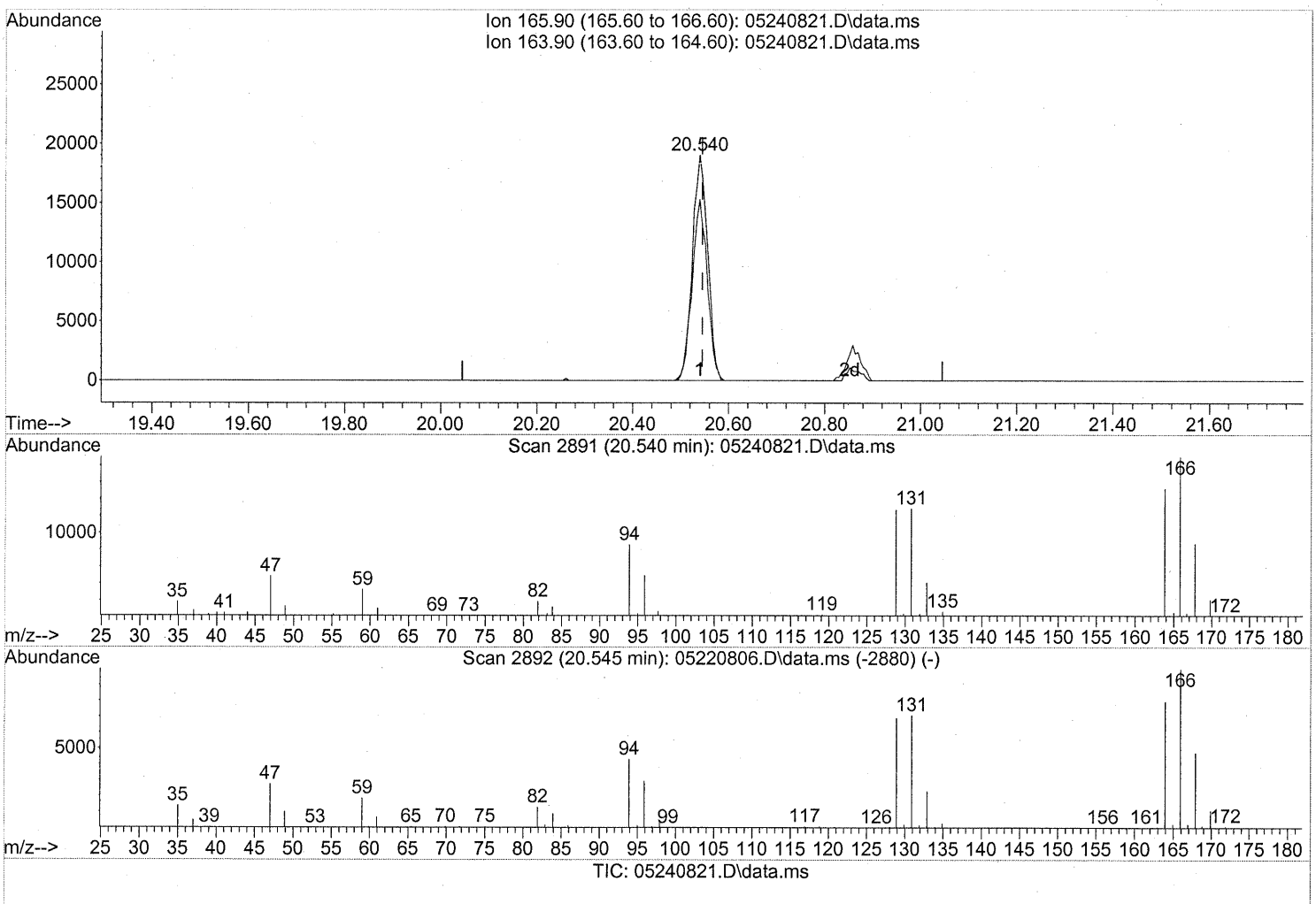

TIC: 05240821.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 1.05ng

response 41661

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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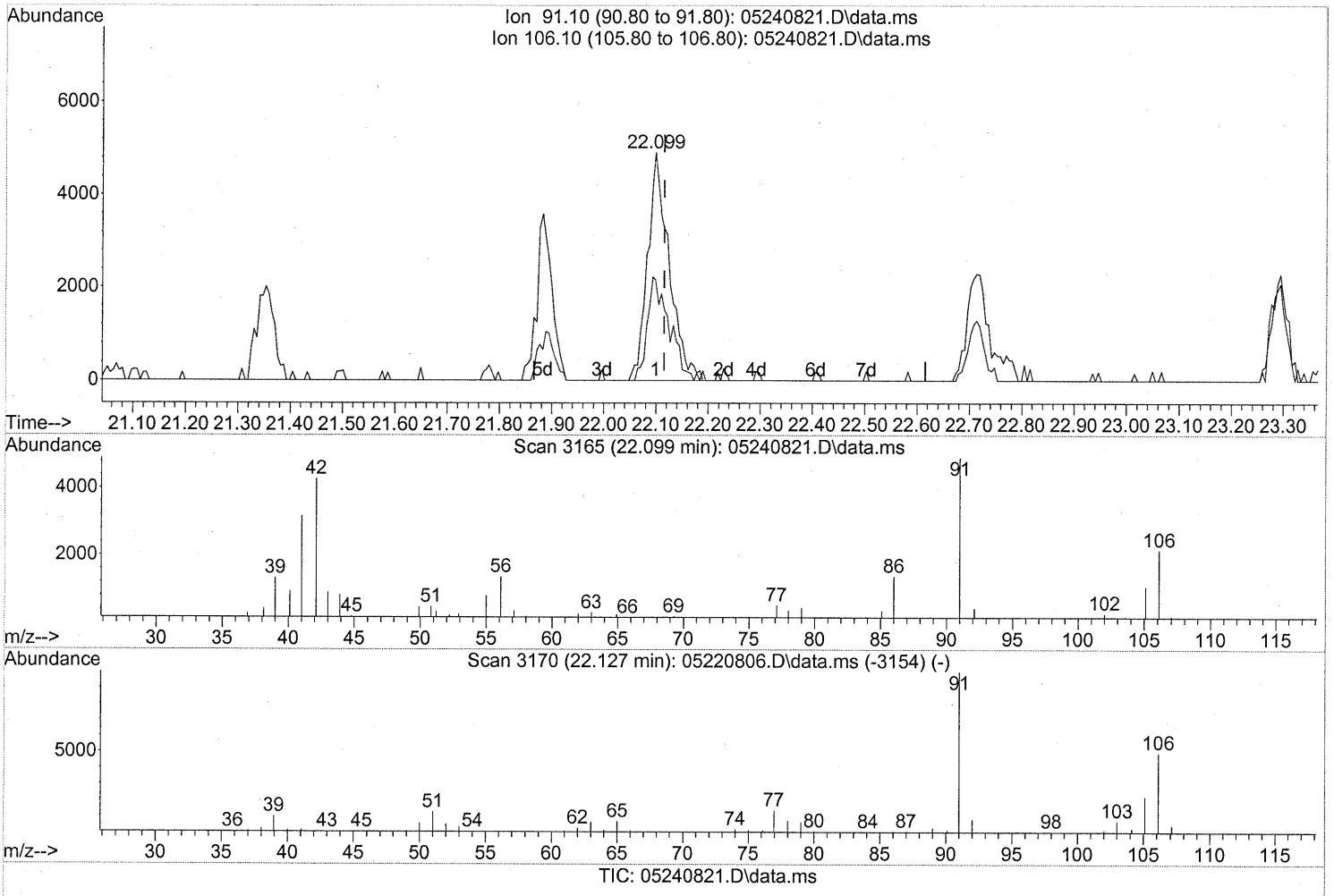
Response via : Initial Calibration



TIC: 05240821.D\data.ms

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

22.099min (-0.017) 0.14ng

response 14038

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	45.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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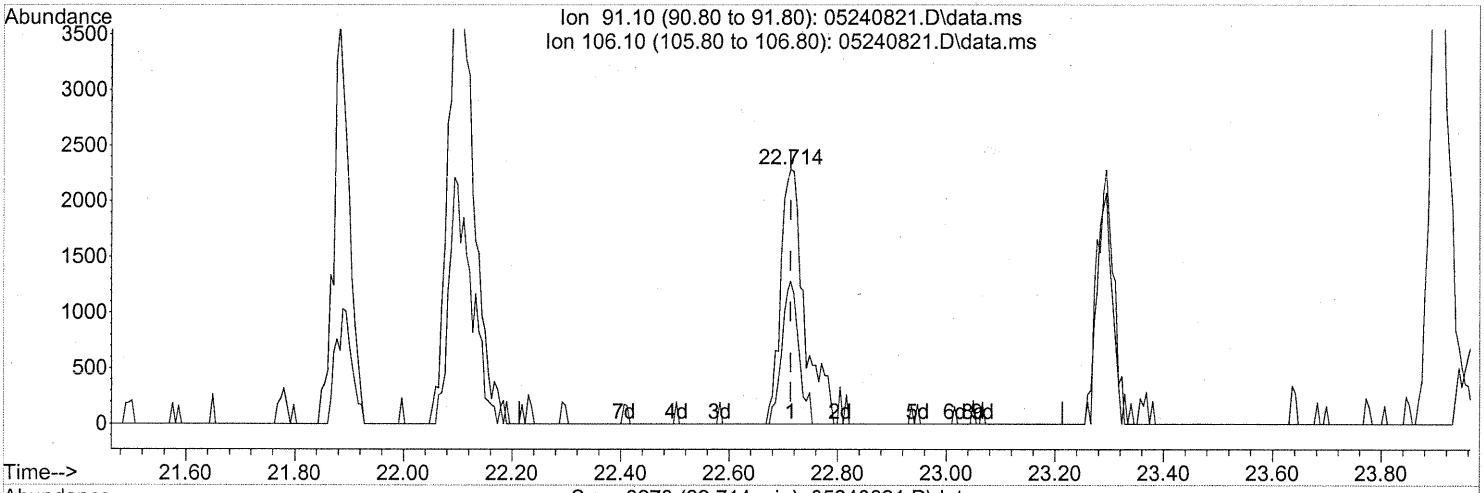
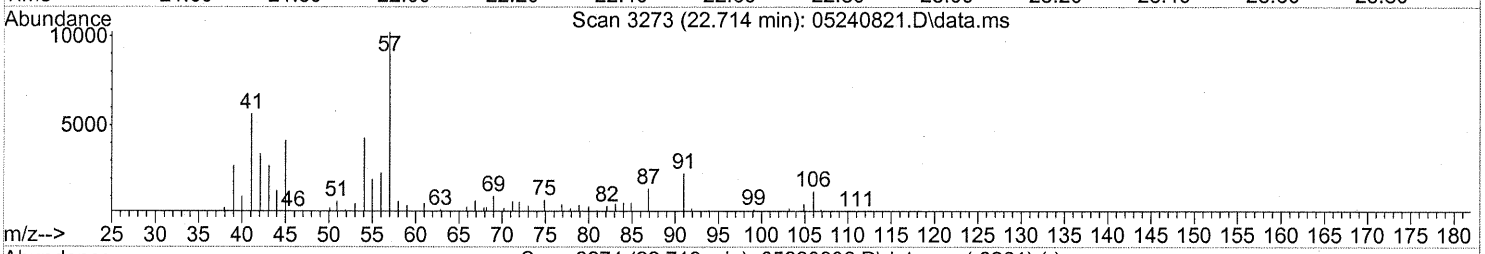
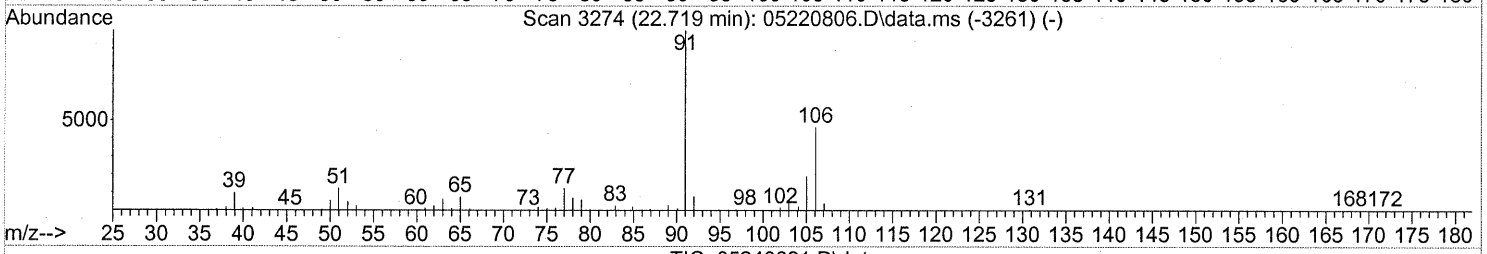






TIC: 05240821.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.06ng

response 6985

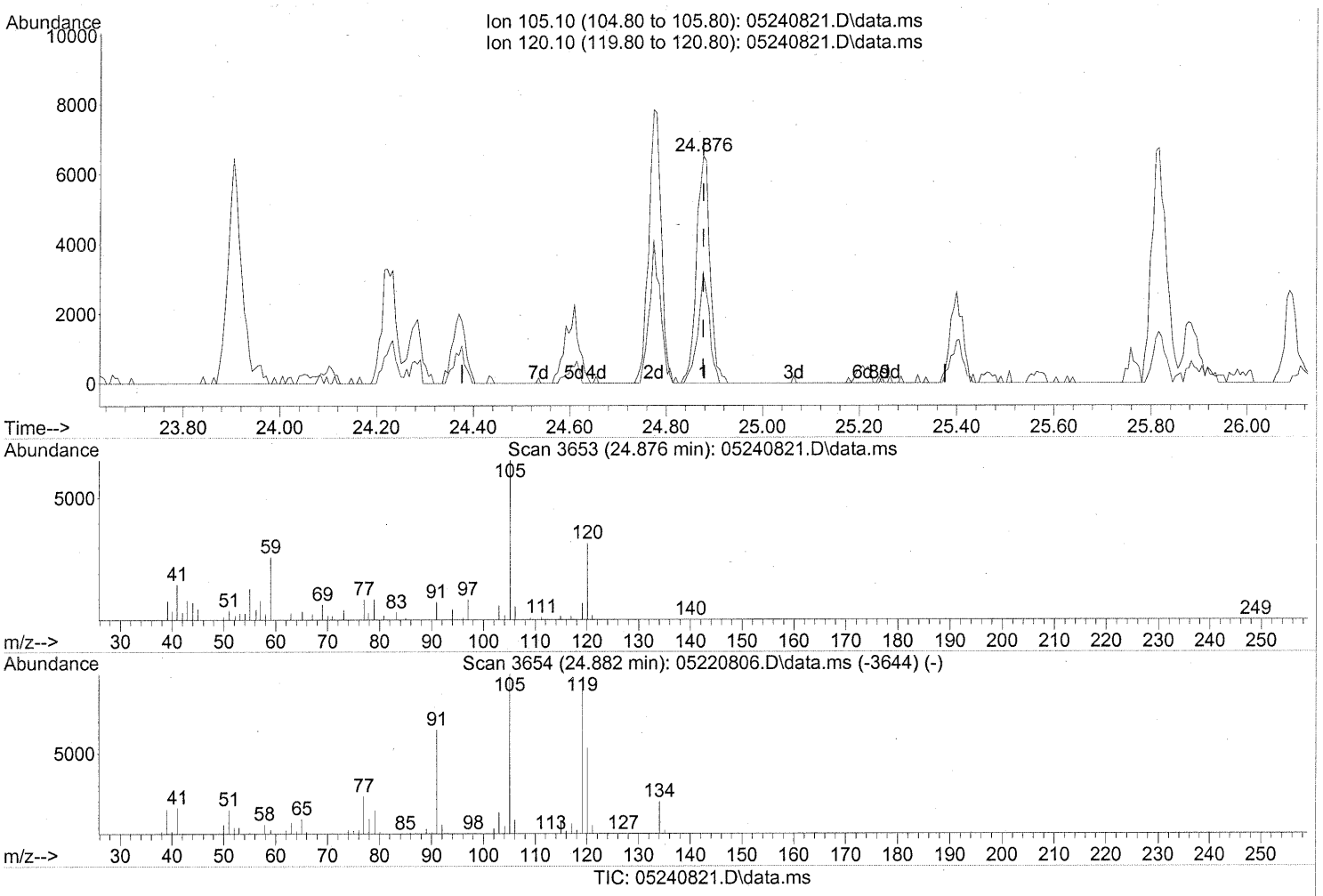
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	39.61
0.00	0.00	0.00
0.00	0.00	0.00

777

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 8:54 pm
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

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

24.876min (-0.000) 0.09ng

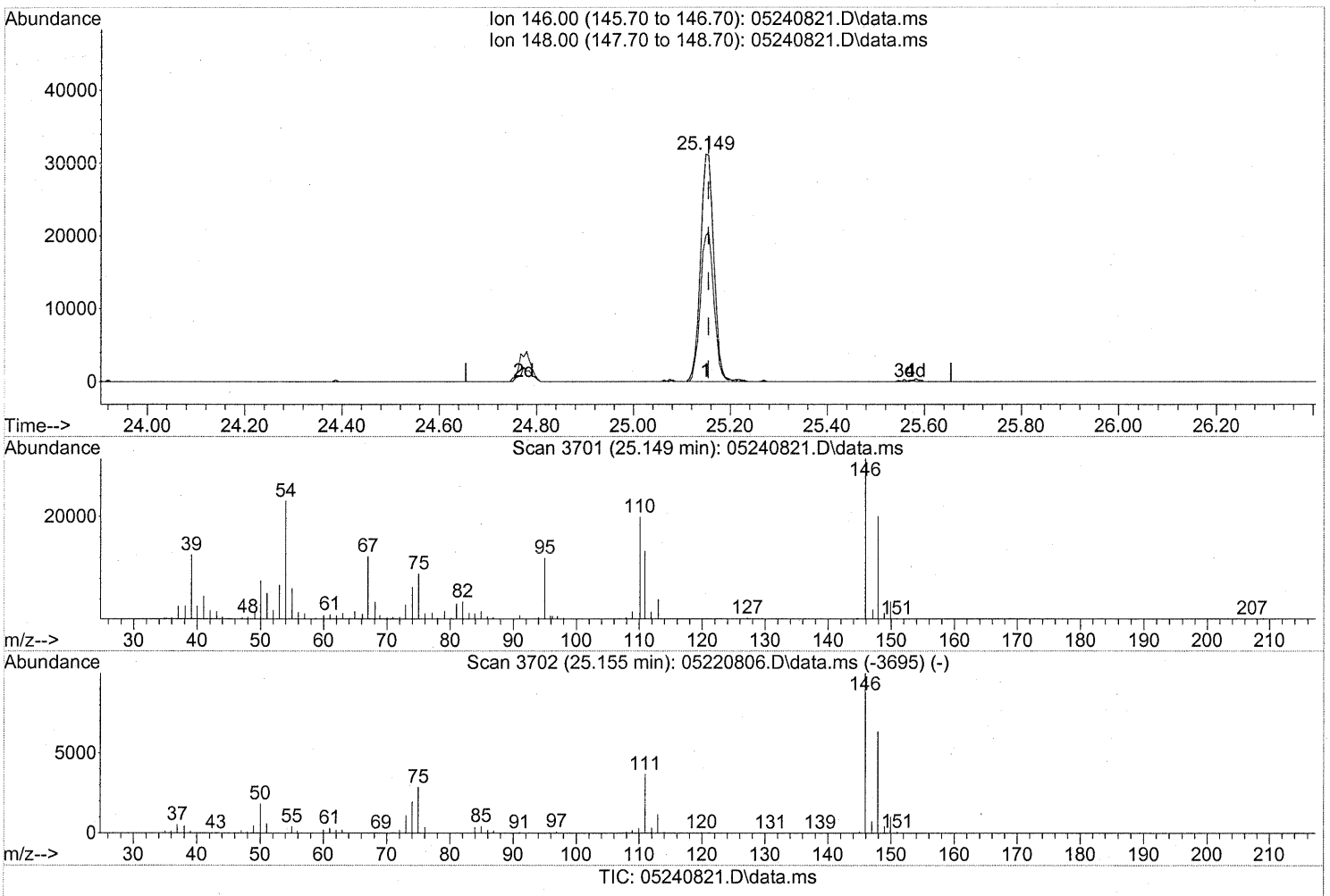
response 12626

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	41.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.73ng

response 59664

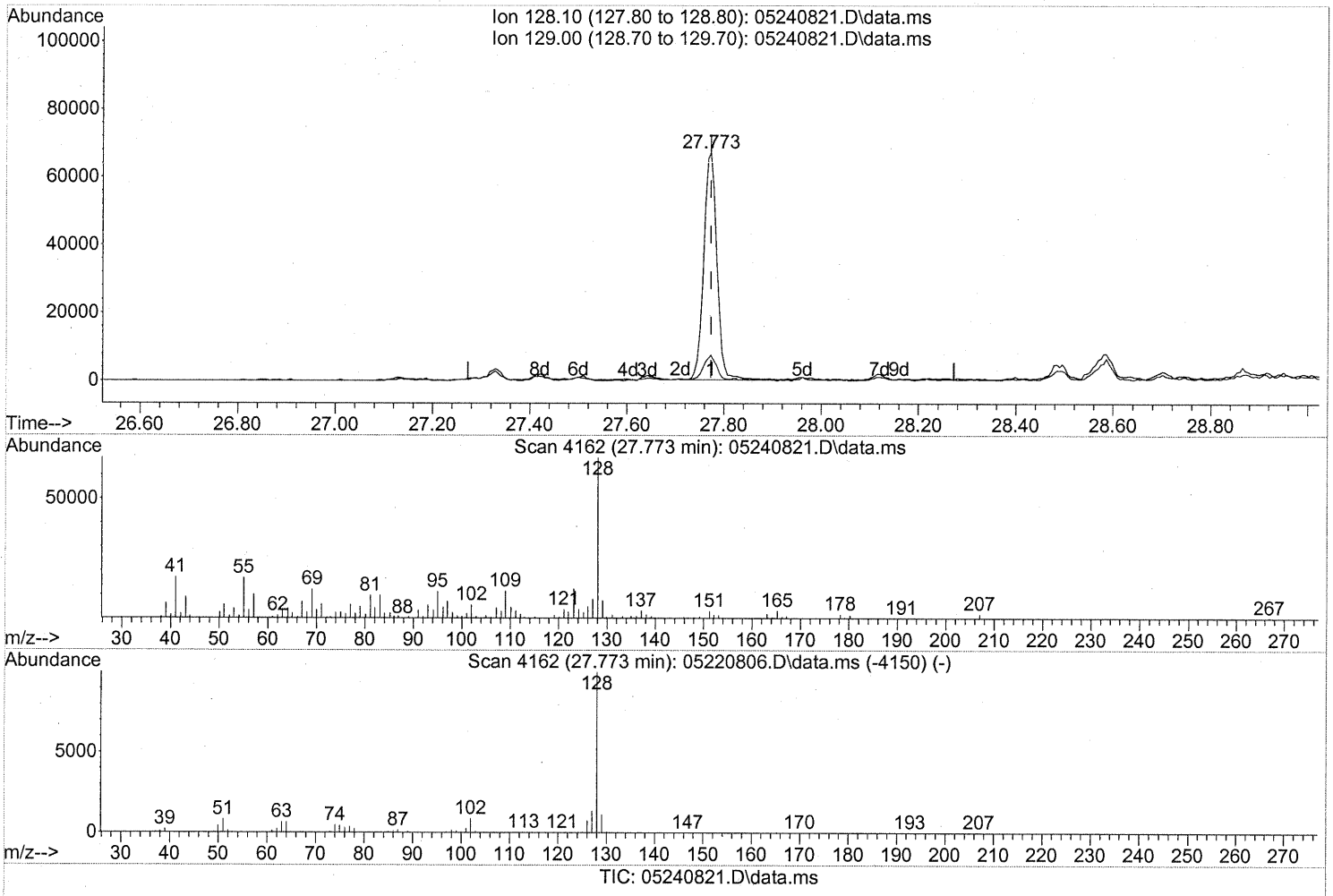
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	65.98
0.00	0.00	0.00
0.00	0.00	0.00

779

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 21:14:34 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240821.D\data.ms

(95) Naphthalene (T)

27.773min (-0.000) 0.70ng

response 125019

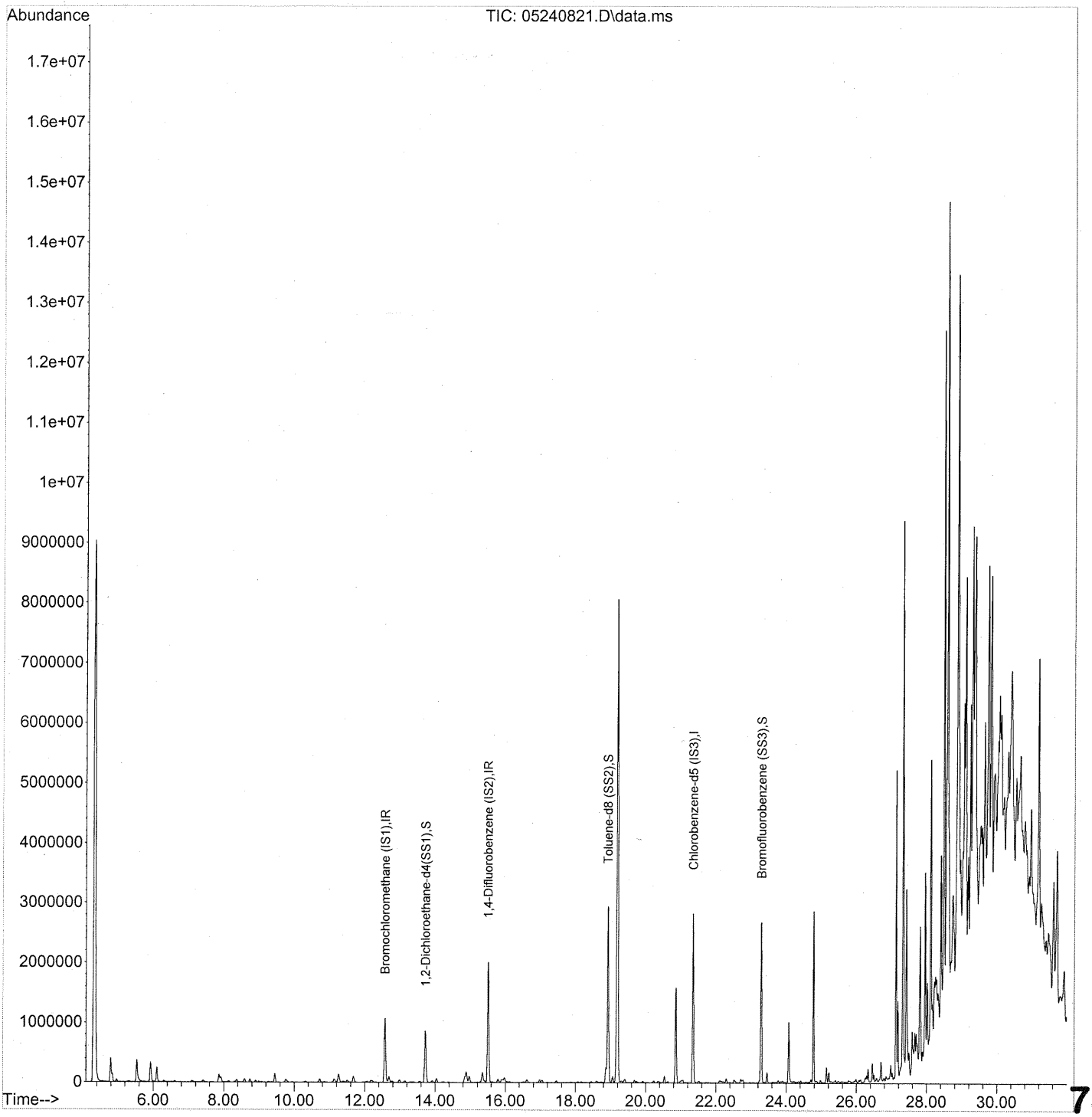
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	10.64
0.00	0.00	0.00
0.00	0.00	0.00

780

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 20:37:22 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



781

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240821.D
Acq On : 24 May 2008 20:54
Operator : WA
Sample : P0801442-015 (500ml)
Misc : ENSR SG94B-05 (-4.9, 3.5)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 25 20:37:22 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	564641	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2380094	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1098161	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	890784	22.768	ng	-0.03
Spiked Amount 25.000			Recovery = 91.08%			
5) Toluene-d8 (SS2)	18.92	98	2476898	25.114	ng	-0.02
Spiked Amount 25.000			Recovery = 100.44%			
6) Bromofluorobenzene (SS3)	23.29	174	1026405	25.592	ng	0.00
Spiked Amount 25.000			Recovery = 102.36%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	1563	N.D.		
8) n-Butylbenzene	25.91	91	5315	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG95B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00671

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.40 Liter(s)
0.10 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)**	**2.0**	2.0	0.20	**0.40**	0.39	0.039	
74-87-3	**Chloromethane**	**0.30**	0.39	0.20	**0.15**	0.19	0.094	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.0	0.20	ND	0.28	0.028	
75-01-4	Vinyl Chloride	ND	0.39	0.20	ND	0.15	0.076	
74-83-9	Bromomethane	ND	0.39	0.20	ND	0.10	0.050	
75-00-3	**Chloroethane**	**0.41**	0.39	0.20	**0.16**	0.15	0.074	
64-17-5	**Ethanol**	**4.4**	20	0.20	**2.3**	10	0.10	**J**
67-64-1	**Acetone**	**13**	20	0.28	**5.5**	8.2	0.12	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.1**	0.39	0.20	**0.19**	0.069	0.035	
107-13-1	Acrylonitrile	ND	2.0	0.27	ND	0.90	0.13	
75-35-4	**1,1-Dichloroethene**	**8.9**	0.39	0.20	**2.2**	0.098	0.049	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.0**	2.0	0.29	**0.33**	0.64	0.095	**J**
75-09-2	**Methylene Chloride**	**1.6**	2.0	0.20	**0.47**	0.56	0.056	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.39	0.20	ND	0.12	0.062	
76-13-1	**Trichlorotrifluoroethane**	**0.50**	0.39	0.22	**0.065**	0.051	0.029	
75-15-0	**Carbon Disulfide**	**1.8**	2.0	0.47	**0.57**	0.63	0.15	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.39	0.20	ND	0.098	0.049	
75-34-3	**1,1-Dichloroethane**	**0.40**	0.39	0.20	**0.099**	0.096	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.39	0.20	ND	0.11	0.054	
108-05-4	**Vinyl Acetate**	**0.92**	20	0.62	**0.26**	5.5	0.18	**J**
78-93-3	**2-Butanone (MEK)**	**5.8**	2.0	0.20	**2.0**	0.66	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.39	0.20	ND	0.098	0.049	
108-20-3	Diisopropyl Ether	ND	2.0	0.23	ND	0.47	0.055	
67-66-3	**Chloroform**	**1,700**	0.39	0.23	**340**	0.080	0.047	

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

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG95B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00671

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.40 Liter(s)
0.10 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	2.0	0.20	ND	0.47	0.048	
107-06-2	1,2-Dichloroethane	ND	0.39	0.20	ND	0.096	0.048	
71-55-6	1,1,1-Trichloroethane	ND	0.39	0.20	ND	0.072	0.036	
71-43-2	**Benzene**	**2.2**	0.39	0.20	**0.68**	0.12	0.061	
56-23-5	**Carbon Tetrachloride**	**6.6**	0.39	0.20	**1.1**	0.062	0.031	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.20	ND	0.47	0.047	
78-87-5	**1,2-Dichloropropane**	**0.22**	0.39	0.20	**0.048**	0.084	0.042	**J**
75-27-4	**Bromodichloromethane**	**7.4**	0.39	0.20	**1.1**	0.058	0.029	
79-01-6	**Trichloroethene**	**4.2**	0.39	0.20	**0.78**	0.073	0.036	
123-91-1	1,4-Dioxane	ND	2.0	0.24	ND	0.54	0.066	
80-62-6	Methyl Methacrylate	ND	2.0	0.29	ND	0.48	0.071	
142-82-5	n-Heptane	ND	2.0	0.25	ND	0.48	0.061	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ND	0.43	0.045	
108-10-1	**4-Methyl-2-pentanone**	**0.27**	2.0	0.22	**0.067**	0.48	0.053	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.25	ND	0.43	0.054	
79-00-5	1,1,2-Trichloroethane	ND	0.39	0.20	ND	0.072	0.036	
108-88-3	**Toluene**	**8.6**	2.0	0.20	**2.3**	0.52	0.052	
591-78-6	**2-Hexanone**	**0.37**	2.0	0.30	**0.090**	0.48	0.072	**J**
124-48-1	**Dibromochloromethane**	**1.1**	0.39	0.27	**0.13**	0.046	0.031	
106-93-4	1,2-Dibromoethane	ND	0.39	0.21	ND	0.051	0.027	
111-65-9	n-Octane	ND	2.0	0.20	ND	0.42	0.042	
127-18-4	**Tetrachloroethene**	**17**	0.39	0.20	**2.5**	0.058	0.029	
108-90-7	**Chlorobenzene**	**1.3**	0.39	0.20	**0.29**	0.085	0.043	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG95B-05** CAS Sample ID: P0801442-016
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.40 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.10 Liter(s)
Test Notes:
Container ID: SC00671

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**	**0.97**	2.0	0.24	**0.22**	0.45	0.056	**J**
179601-23-1	**m,p-Xylenes**	**5.7**	2.0	0.51	**1.3**	0.45	0.12	
75-25-2	Bromoform	ND	2.0	0.30	ND	0.19	0.029	
100-42-5	**Styrene**	**0.32**	2.0	0.30	**0.076**	0.46	0.070	**J**
95-47-6	**o-Xylene**	**1.9**	2.0	0.25	**0.45**	0.45	0.057	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.39	0.25	ND	0.057	0.036	
98-82-8	**Cumene**	**0.39**	2.0	0.22	**0.079**	0.40	0.044	**J**
103-65-1	**n-Propylbenzene**	**0.32**	2.0	0.20	**0.064**	0.40	0.041	**J**
622-96-8	**4-Ethyltoluene**	**0.54**	2.0	0.22	**0.11**	0.40	0.045	**J, B**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	2.0	0.23	**0.13**	0.40	0.048	**J**
98-83-9	alpha-Methylstyrene	ND	2.0	0.28	ND	0.40	0.059	
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	2.0	0.27	**0.44**	0.40	0.055	
100-44-7	Benzyl Chloride	ND	0.39	0.34	ND	0.075	0.065	
541-73-1	**1,3-Dichlorobenzene**	**82**	0.39	0.24	**14**	0.065	0.040	
106-46-7	**1,4-Dichlorobenzene**	**24**	0.39	0.22	**4.1**	0.065	0.036	
135-98-8	**sec-Butylbenzene**	**0.45**	2.0	0.23	**0.082**	0.36	0.041	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**0.49**	2.0	0.25	**0.089**	0.36	0.046	**J**
95-50-1	**1,2-Dichlorobenzene**	**52**	0.39	0.26	**8.7**	0.065	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.30	ND	0.20	0.031	
120-82-1	**1,2,4-Trichlorobenzene**	**240**	0.39	0.30	**32**	0.053	0.040	
91-20-3	**Naphthalene**	**2.7**	0.78	0.29	**0.52**	0.15	0.055	
87-68-3	**Hexachlorobutadiene**	**3.9**	0.39	0.35	**0.37**	0.037	0.033	
98-06-6	tert-Butylbenzene	ND	0.78	0.20	ND	0.14	0.036	
104-51-8	**n-Butylbenzene**	**0.57**	0.78	0.20	**0.10**	0.14	0.036	**J**

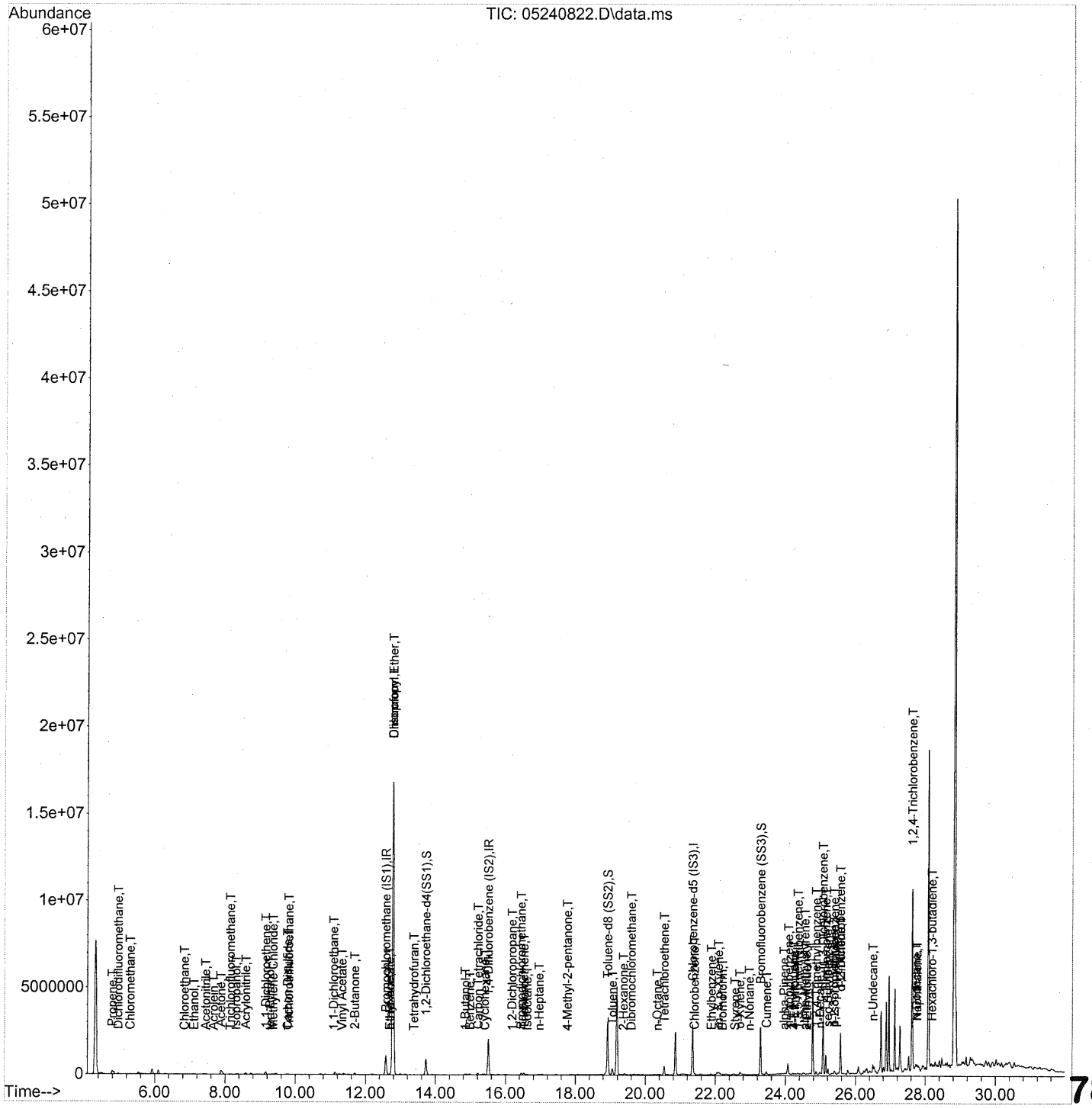
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: RG Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	575733	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2414649	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1124167	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	894939	22.434	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 89.72%				
57) Toluene-d8 (SS2)	18.93	98	2539617	25.154	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 100.60%				
73) Bromofluorobenzene (SS3)	23.29	174	1051514	25.612	ng		0.00 ✓
Spiked Amount 25.000			Recovery = 102.44%				
Target Compounds							Qvalue
2) Propene	4.79	42	105713	2.325	ng	#	70
3) Dichlorodifluoromethane	4.97	85	42599	0.508	ng		98
4) Chloromethane	5.30	50	4243	0.078	ng		87
5) Freon 114	5.56	135	1069	N.D. ✓			
6) Vinyl Chloride	5.75	62	92	N.D. ✓			
7) 1,3-Butadiene	6.02	54	1601	N.D.			
8) Bromomethane	6.51	94	1211	N.D. ✓			
9) Chloroethane	6.85	64	2698	0.105	ng	#	45
10) Ethanol	7.11	45	34329m	1.134	ng		
11) Acetonitrile	7.45	41	22802	0.260	ng		86
12) Acrolein	7.67	56	3632	0.168	ng		94
13) Acetone	7.88	58	103433m	3.337	ng		
14) Trichlorofluoromethane	8.15	101	19555	0.272	ng		98
15) Isopropanol	8.32	45	45117	0.456	ng		86
16) Acrylonitrile	8.60	53	6864	0.145	ng NR	#	24
17) 1,1-Dichloroethene	9.16	96	72286	2.285	ng	#	75
18) tert-Butanol	9.28	59	21606m	0.257	ng		
19) Methylene Chloride	9.37	84	14441	0.417	ng	#	75
20) Allyl Chloride	9.53	41	1009	N.D. ✓			
21) Trichlorotrifluoroethane	9.81	151	4158	0.127	ng		90
22) Carbon Disulfide	9.78	76	60146	0.458	ng		97
23) trans-1,2-Dichloroethene	10.81	61	55	N.D. ✓			
24) 1,1-Dichloroethane	11.09	63	6189	0.103	ng		91
25) Methyl tert-Butyl Ether	11.23	73	3113	N.D. ✓			
26) Vinyl Acetate	11.33	86	1356	0.237	ng	#	1
27) 2-Butanone	11.69	72	33629	1.487	ng	#	88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓			
29) Diisopropyl Ether	12.78	87	2168276	~~78.227~~	ng NR	#	1
30) Ethyl Acetate	12.69	61	2715	0.222	ng		78
31) n-Hexane	12.70	57	25468	0.413	ng	#	71

787

5/29/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	18571453	~~353.743 ng~~	sat del	95
34) Tetrahydrofuran	13.39	72	1132	0.052 ng	#	22
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	212	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	1289	N.D. ✓		
39) Isopropyl Acetate	14.96	61	59	N.D.		
40) 1-Butanol	14.85	56	39604	1.193 ng		99
41) Benzene	14.99	78	70175	0.555 ng		96
42) Carbon Tetrachloride	15.22	117	82726	1.699 ng		100
43) Cyclohexane	15.41	84	11616	0.236 ng		85
44) tert-Amyl Methyl Ether	15.85	73	56	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	1935	0.057 ng		97
46) Bromodichloromethane	16.45	83	81084	1.897 ng		100
47) Trichloroethene	16.53	130	41475	1.069 ng		97
48) 1,4-Dioxane	16.52	88	149	N.D. ✓		
49) Isooctane	16.62	57	40028	0.276 ng		64
50) Methyl Methacrylate	16.74	100	55	N.D. ✓		
51) n-Heptane	16.97	71	1712	~~0.051 ng~~		83
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	2361	0.070 ng	#	39
54) trans-1,3-Dichloropropene	18.43	75	269	N.D. ✓		
55) 1,1,2-Trichloroethane	18.67	97	684	N.D. ✓		
58) Toluene	19.06	91	302488	2.204 ng		98
59) 2-Hexanone	19.37	43	8910	0.094 ng		78
60) Dibromochloromethane	19.60	129	10372	0.280 ng		91
61) 1,2-Dibromoethane	19.93	107	245	N.D. ✓		
62) Butyl Acetate	20.19	43	2289	N.D.		
63) n-Octane	~~20.34~~	57	2162	~~0.071 ng~~	UR	81
64) Tetrachloroethene	20.54	166	178222	4.389 ng		99
65) Chlorobenzene	21.40	112	31698	0.345 ng		100
66) Ethylbenzene	21.89	91	39235	0.249 ng		98
67) m- & p-Xylene	22.09	91	154883	1.471 ng		88
68) Bromoform	22.21	173	1407	~~0.051 ng~~		78
69) Styrene	22.57	104	7830	0.083 ng		85
70) o-Xylene	22.71	91	56319	0.496 ng		93
71) n-Nonane	22.98	43	5519	0.068 ng	#	77
72) 1,1,2,2-Tetrachloroethane	22.70	83	1247	N.D. ✓		
74) Cumene	23.46	105	15067m	0.100 ng		
75) alpha-Pinene	23.97	93	8867	0.113 ng		67
76) n-Propylbenzene	24.10	91	15620	0.081 ng	#	88
77) 3-Ethyltoluene	24.23	105	43597	0.271 ng		94
78) 4-Ethyltoluene	24.27	105	20890	0.139 ng		99
79) 1,3,5-Trimethylbenzene	24.36	105	22665	0.167 ng		92

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	5060	0.069 ng		94
81) 2-Ethyltoluene	24.60	105	20744	0.127 ng		91
82) 1,2,4-Trimethylbenzene	24.88	105	77295	0.560 ng		89
83) n-Decane	24.98	57	43076	0.567 ng		74
84) Benzyl Chloride	25.04	91	3490	N.D. ✓		
85) 1,3-Dichlorobenzene	25.07	146	1817537	21.050 ng		100
86) 1,4-Dichlorobenzene	25.16	146	525451	6.278 ng		99
87) sec-Butylbenzene	25.21	105	20310	0.115 ng		91
88) p-Isopropyltoluene	25.40	119	18215	0.125 ng	#	39
89) 1,2,3-Trimethylbenzene	25.40	105	62797	0.465 ng		89
90) 1,2-Dichlorobenzene	25.57	146	1101025	13.445 ng		99
91) d-Limonene	25.58	68	19374	0.352 ng		100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	296	N.D. ✓		
93) n-Undecane	26.50	57	170970	2.150 ng	#	70
94) 1,2,4-Trichlorobenzene	27.63	180	3705685	61.784 ng		96
95) Naphthalene	27.77	128	126324	0.694 ng		93
96) n-Dodecane	27.74	57	118970	1.504 ng		87
97) Hexachloro-1,3-butadiene	28.19	225	39936	1.000 ng		97

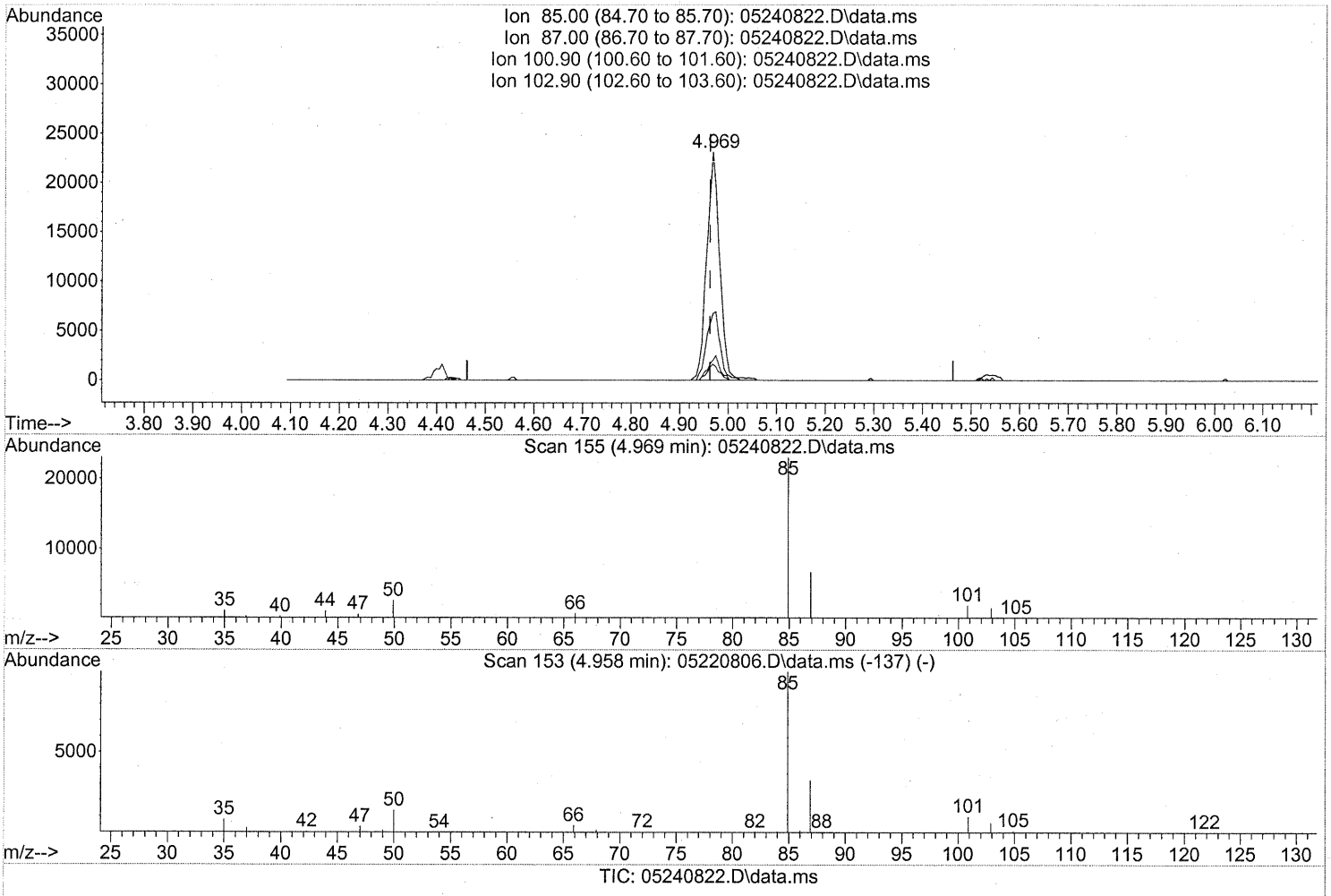
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JDH 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 0.51ng

response 42599

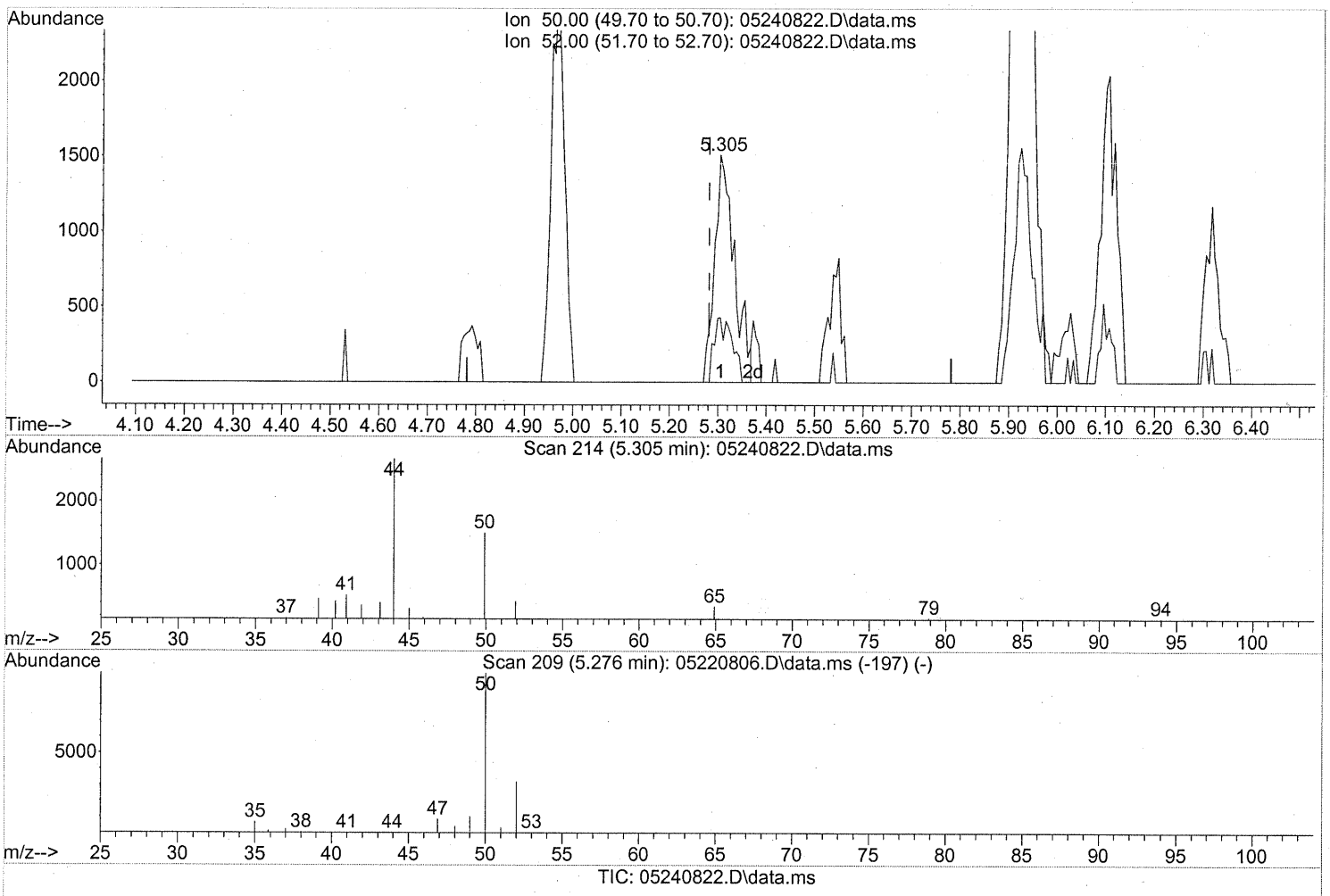
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.24
100.90	9.30	9.41
102.90	6.00	6.31

790

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(4) Chloromethane (T)

5.305min (+0.023) 0.08ng

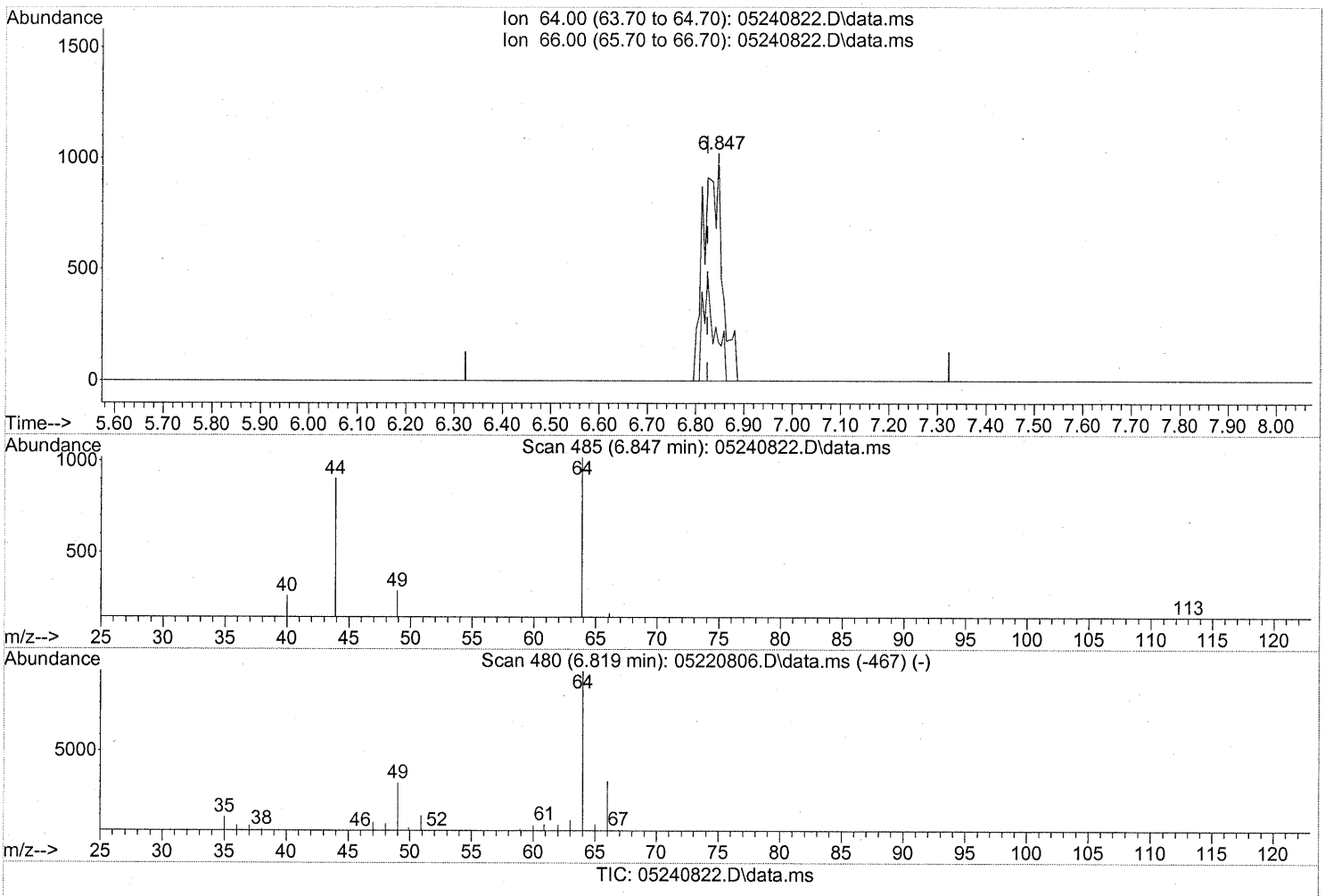
response 4243

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	26.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(9) Chloroethane (T)

6.847min (+0.023) 0.10ng

response 2698

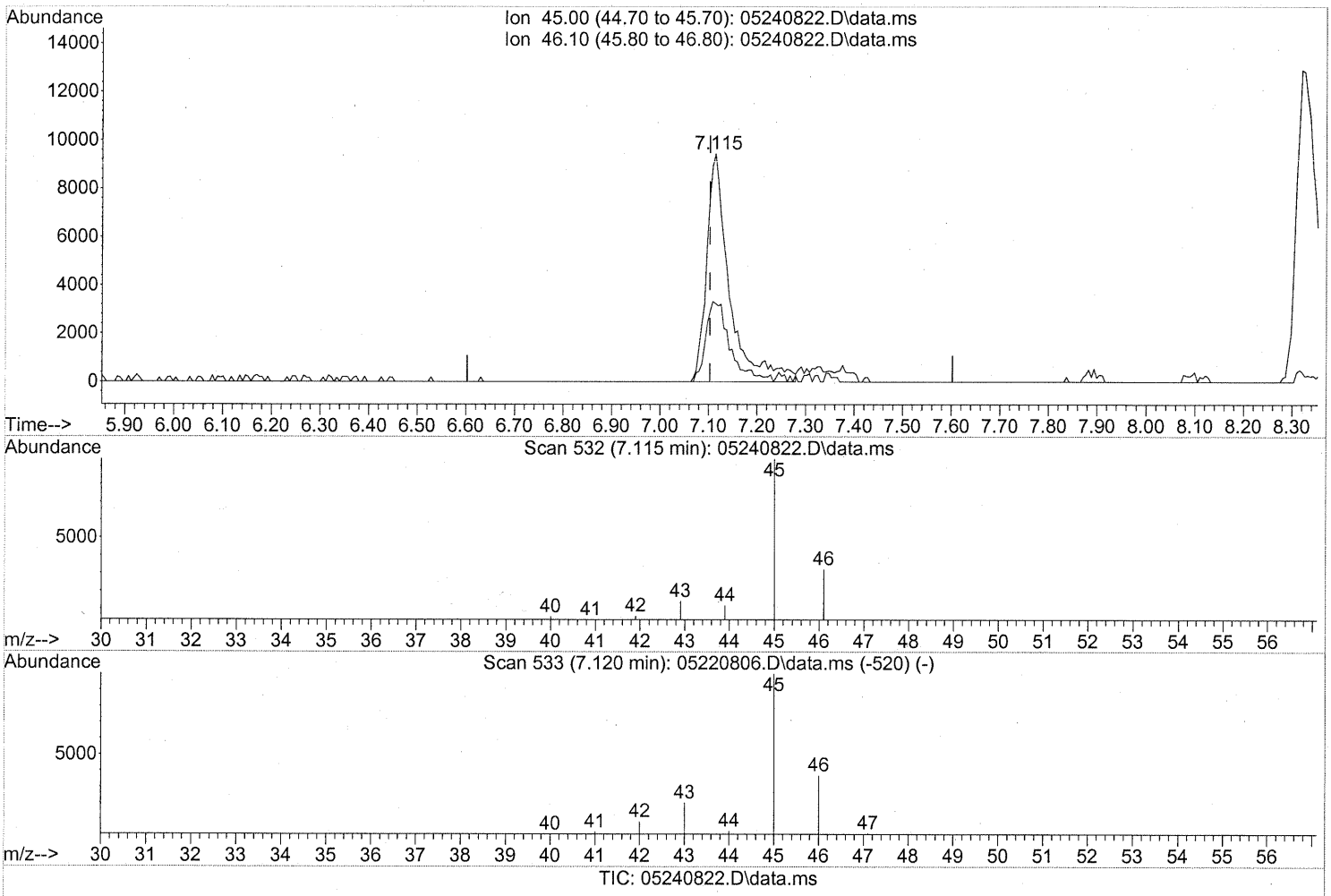
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

792

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801422-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 09:05:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 1.02ng

response 30770

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.55
0.00	0.00	0.00
0.00	0.00	0.00

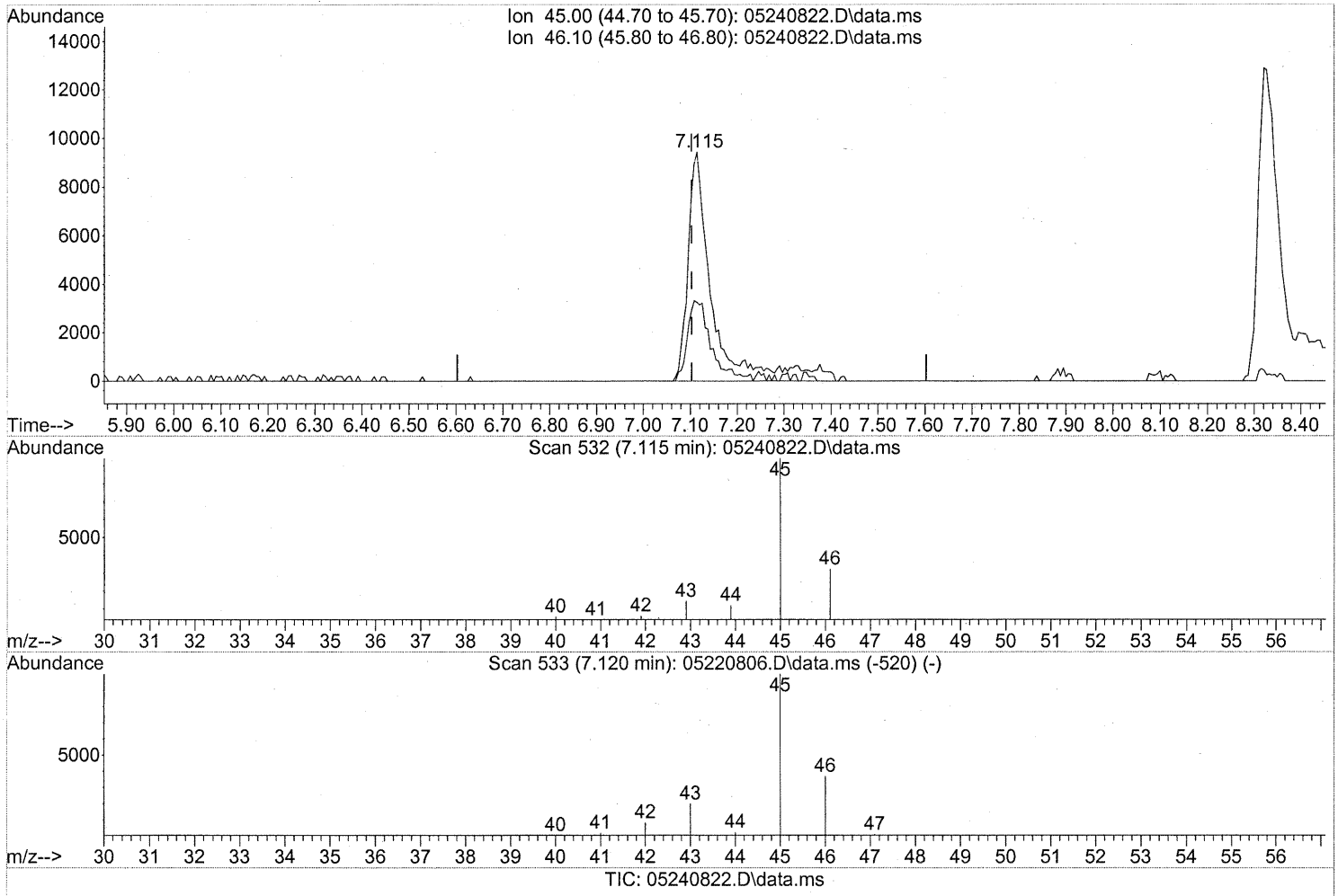
split peaks

793

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(10) Ethanol (T)

7.115min (+0.011) 1.13ng m

response 34329

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.66
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

JDH 5/29/08

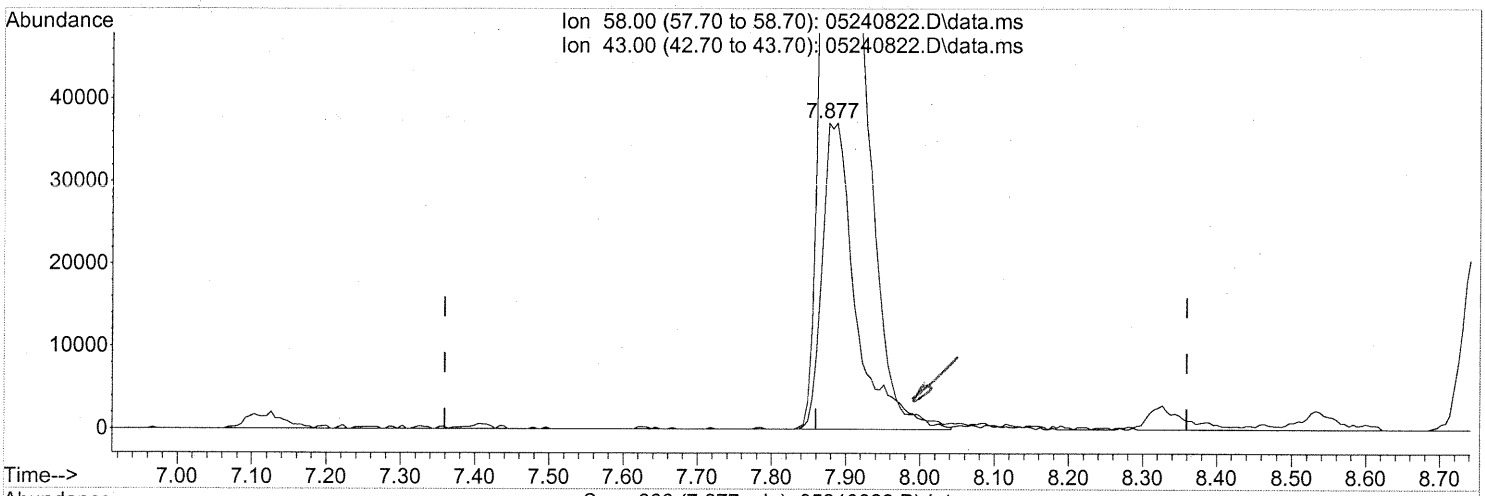
LM 5/30/08

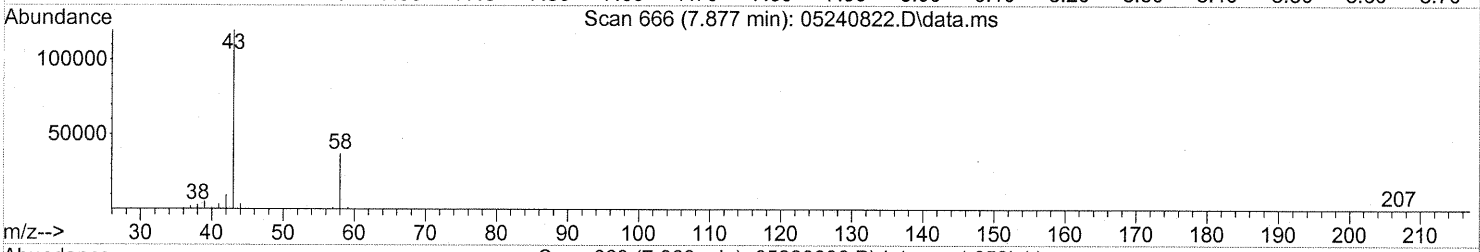
794

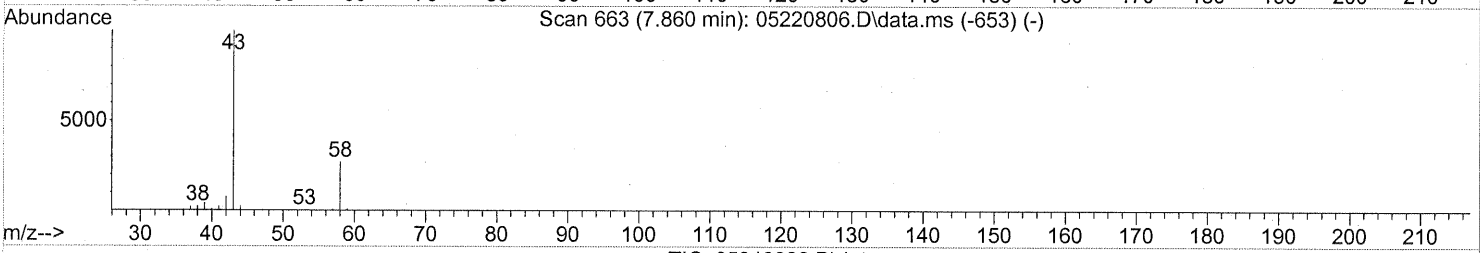
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801422-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 09:05:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(13) Acetone (T)

7.877min (+0.017) 3.74ng

response 116046

interf - shoulder

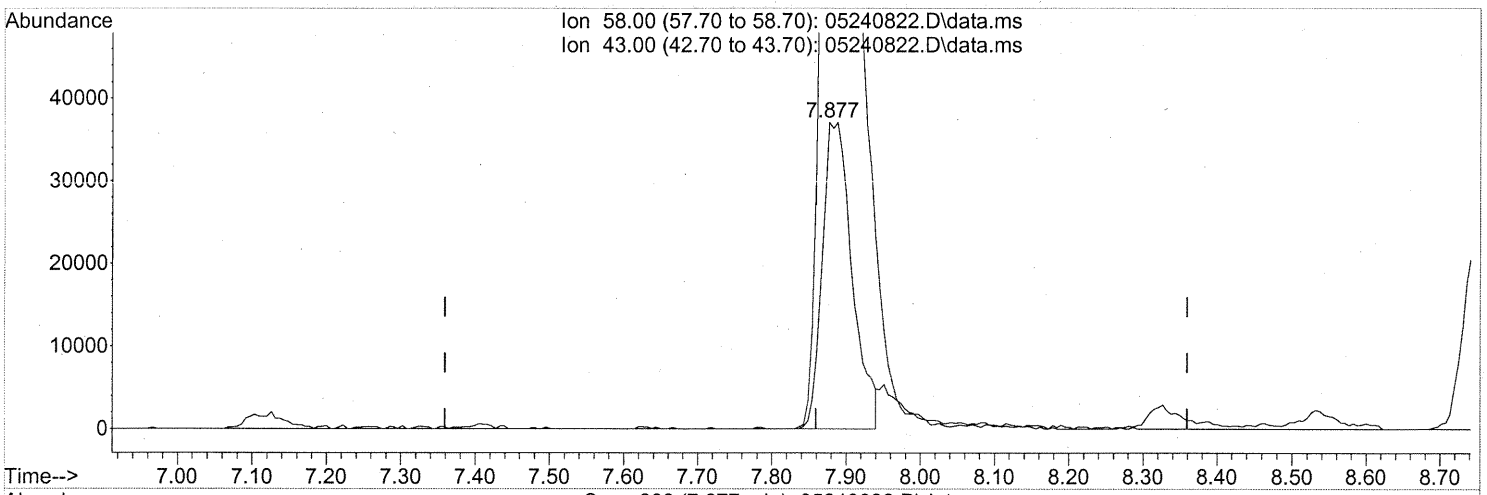
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	361.89#
0.00	0.00	0.00
0.00	0.00	0.00

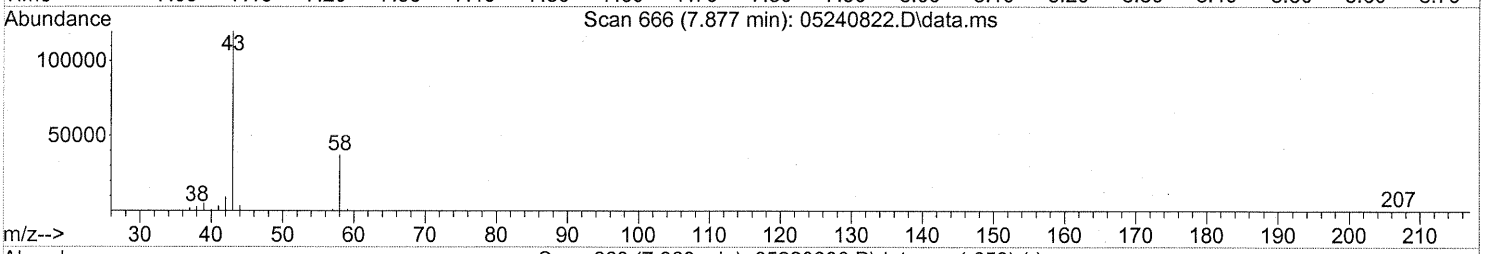
795

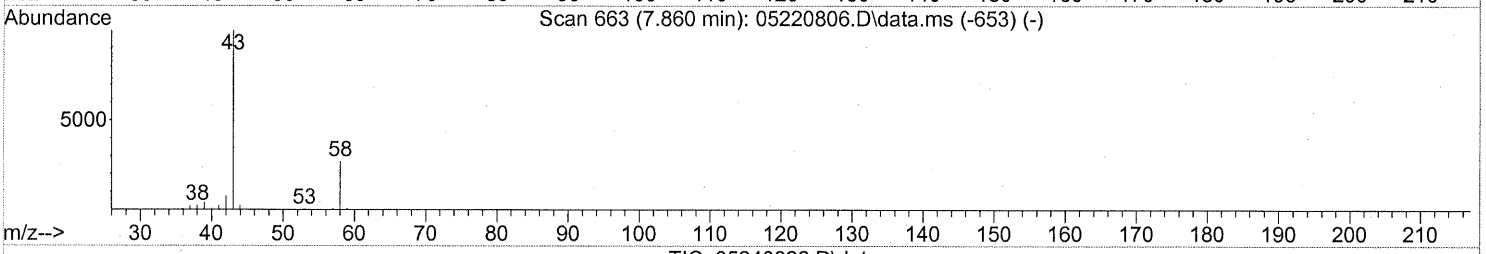
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801422-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 09:05:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(13) Acetone (T)

7.877min (+0.017) 3.34ng m

response 103433

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	406.02#
0.00	0.00	0.00
0.00	0.00	0.00

w/o shoulder
JSH 5/29/08

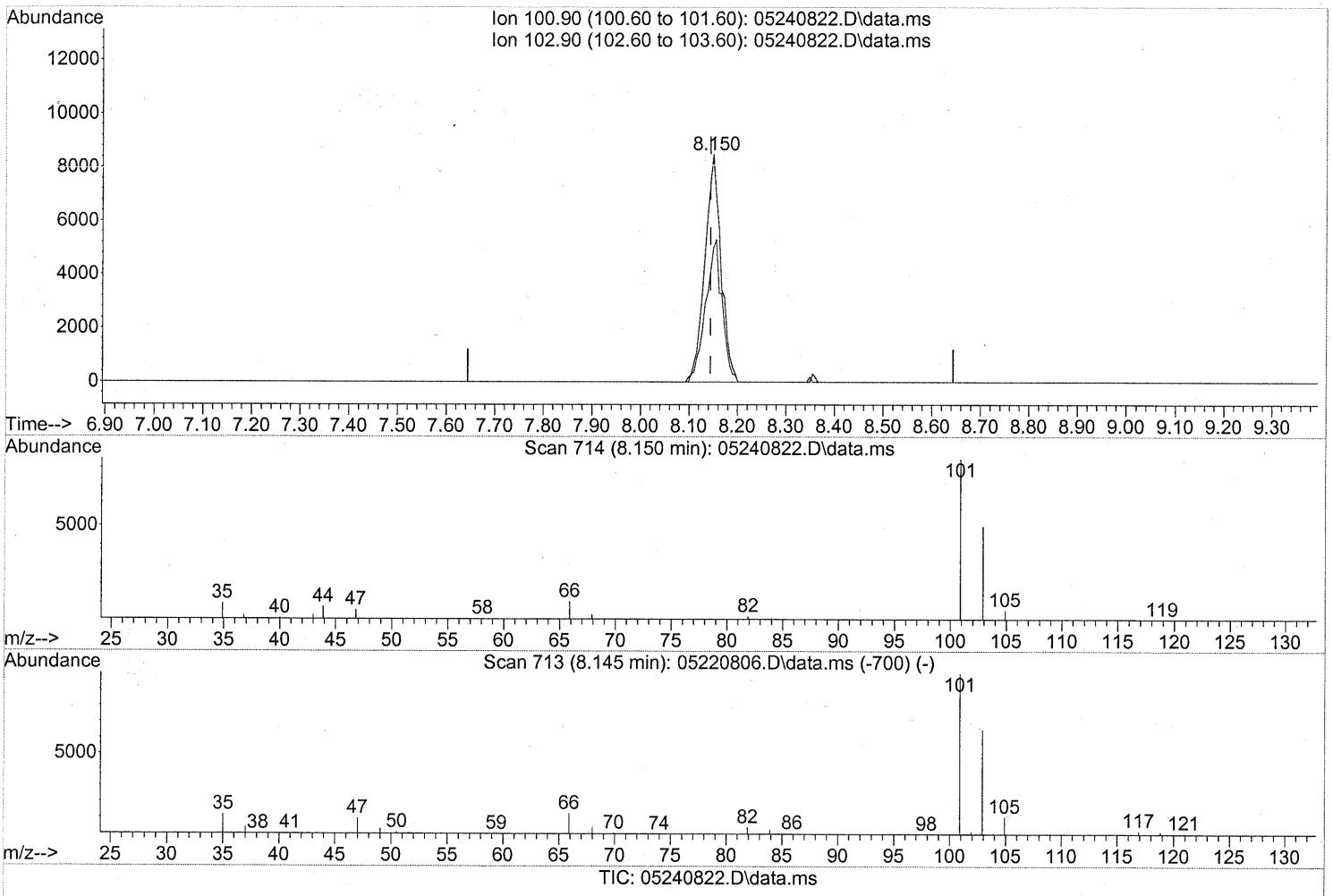
WMS 5/30/08

796

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.27ng

response 19555

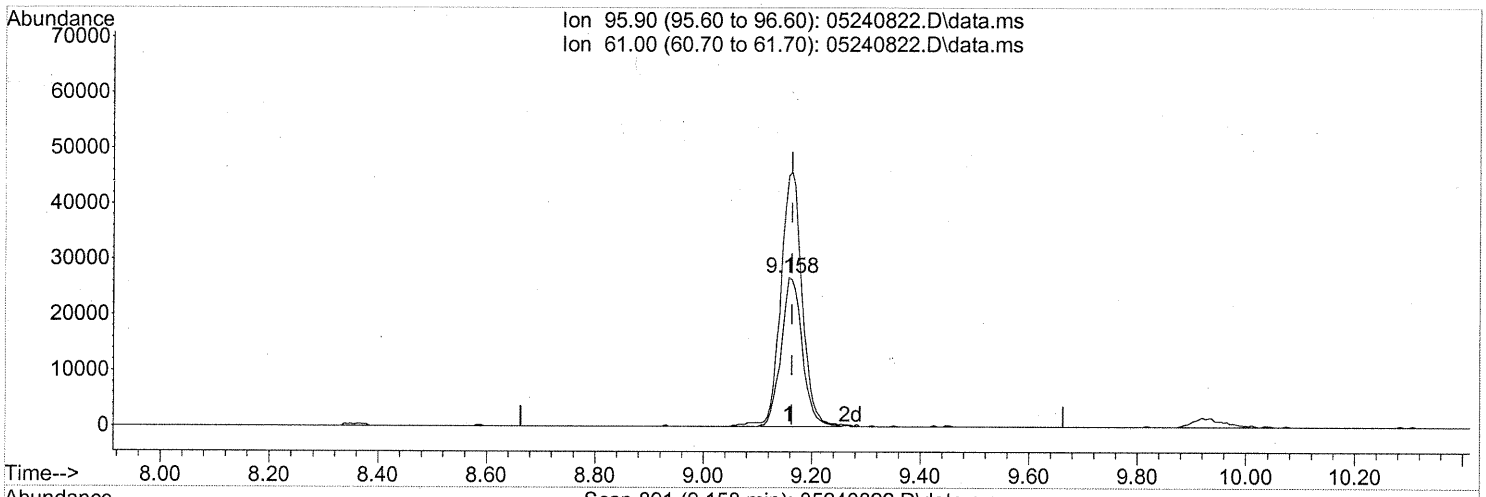
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.33
0.00	0.00	0.00
0.00	0.00	0.00

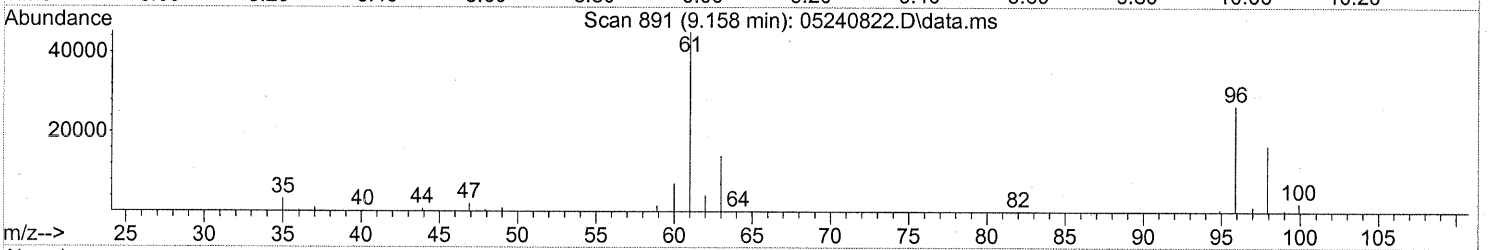
797

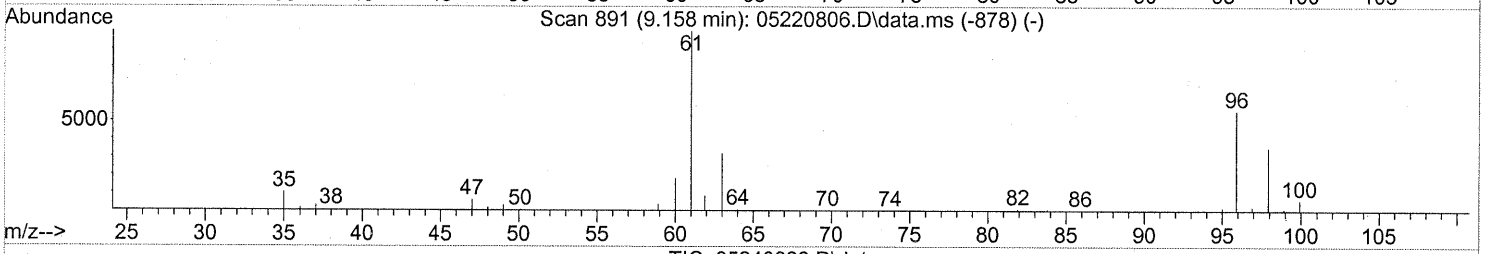
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 2.29ng

response 72286

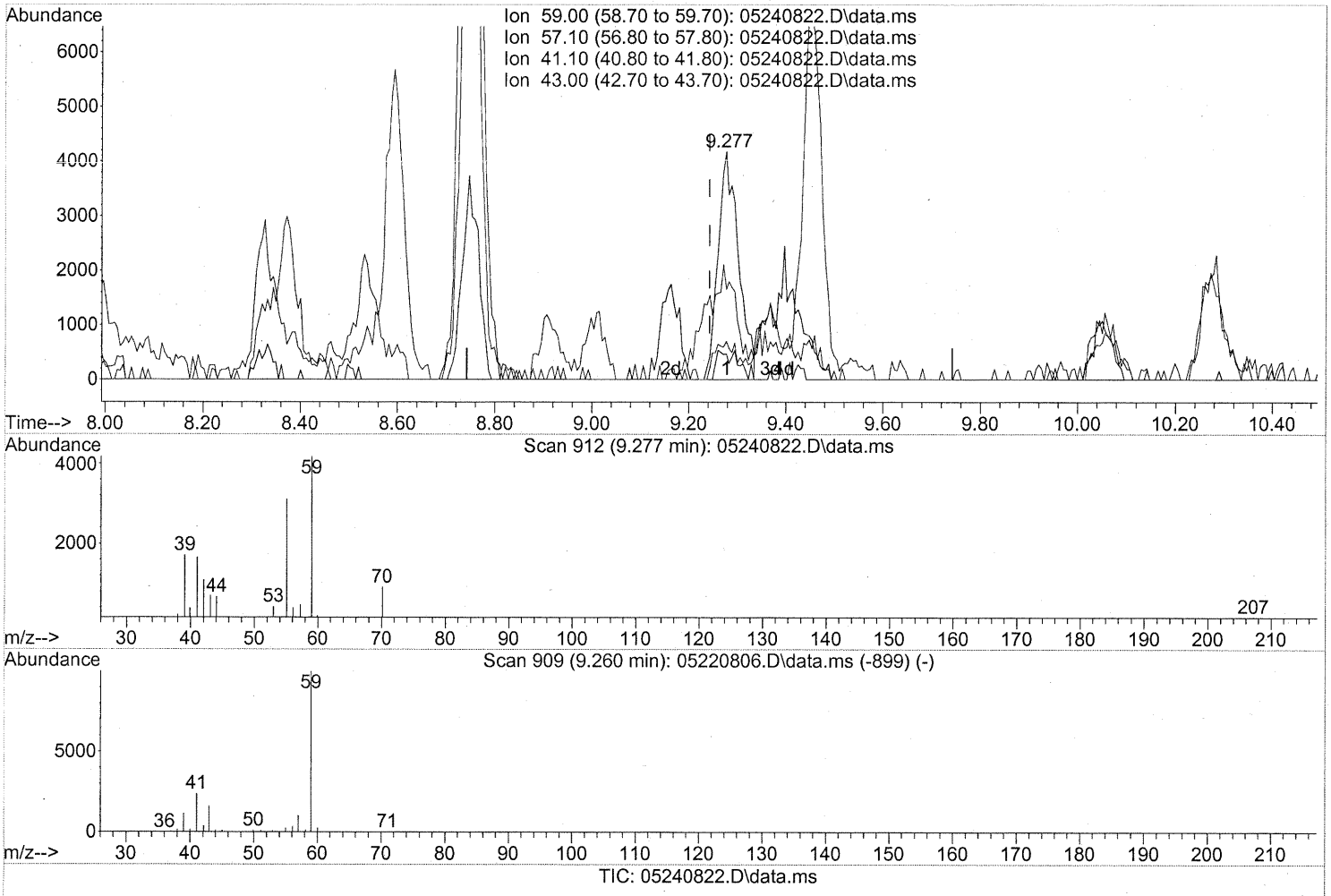
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	171.44#
0.00	0.00	0.00
0.00	0.00	0.00

798

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801422-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 09:05:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.15ng

response 12218

split peaks

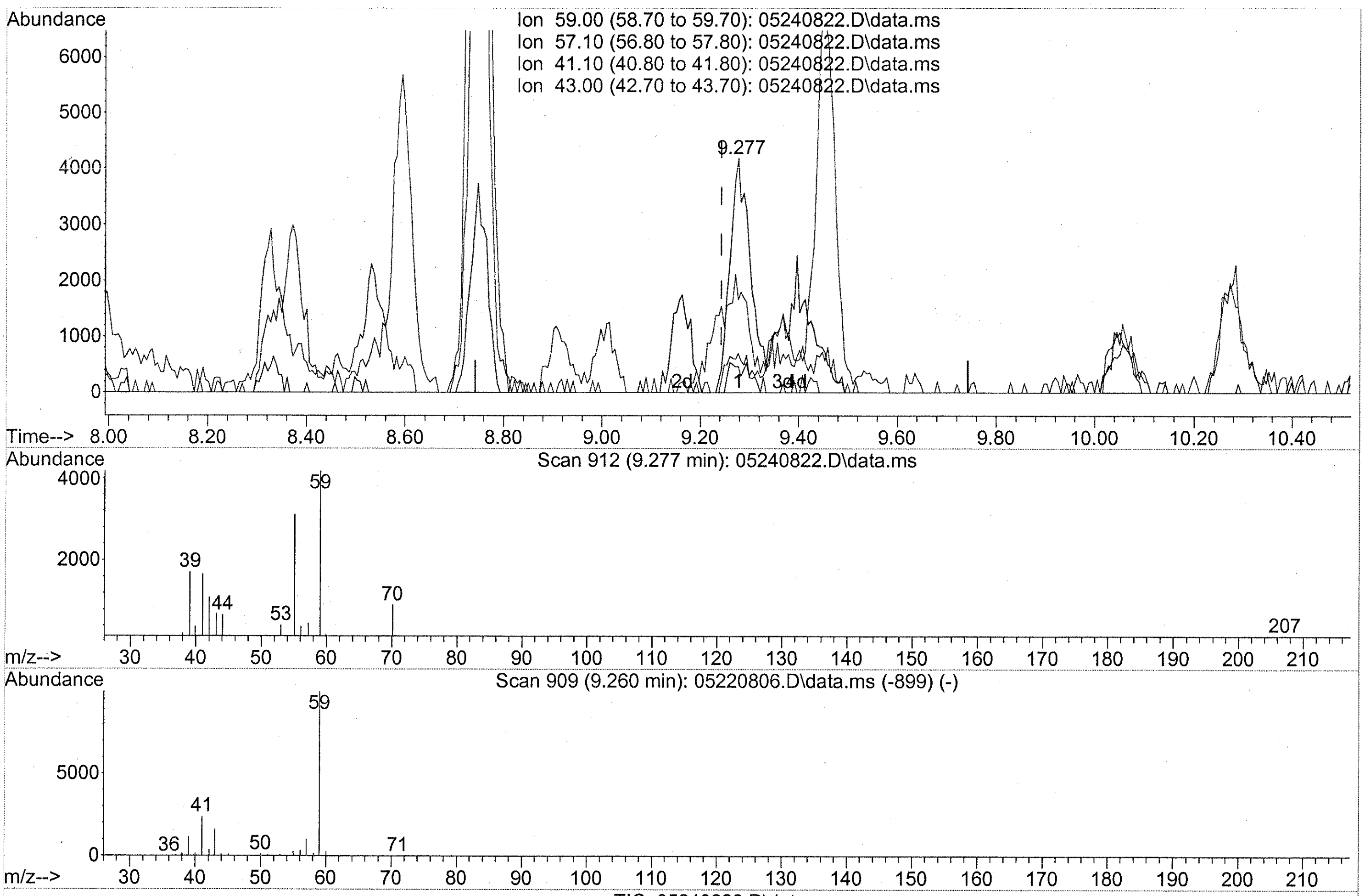
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	12.33
41.10	20.10	78.52#
43.00	12.30	19.91

799

Quantitation Report (Qedit)

```
Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On    : 24 May 2008  21:35
Operator  : WA
Sample    : P0801442-016 (400ml)
Misc      : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration
```



TIC: 05240822.D\data.ms

(18) tert-Butanol (T)

9.277min (+0.034) 0.26ng m

response 21606

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.97
41.10	20.10	44.40#
43.00	12.30	11.26

int. whole peaks
[initials] 5/29/08

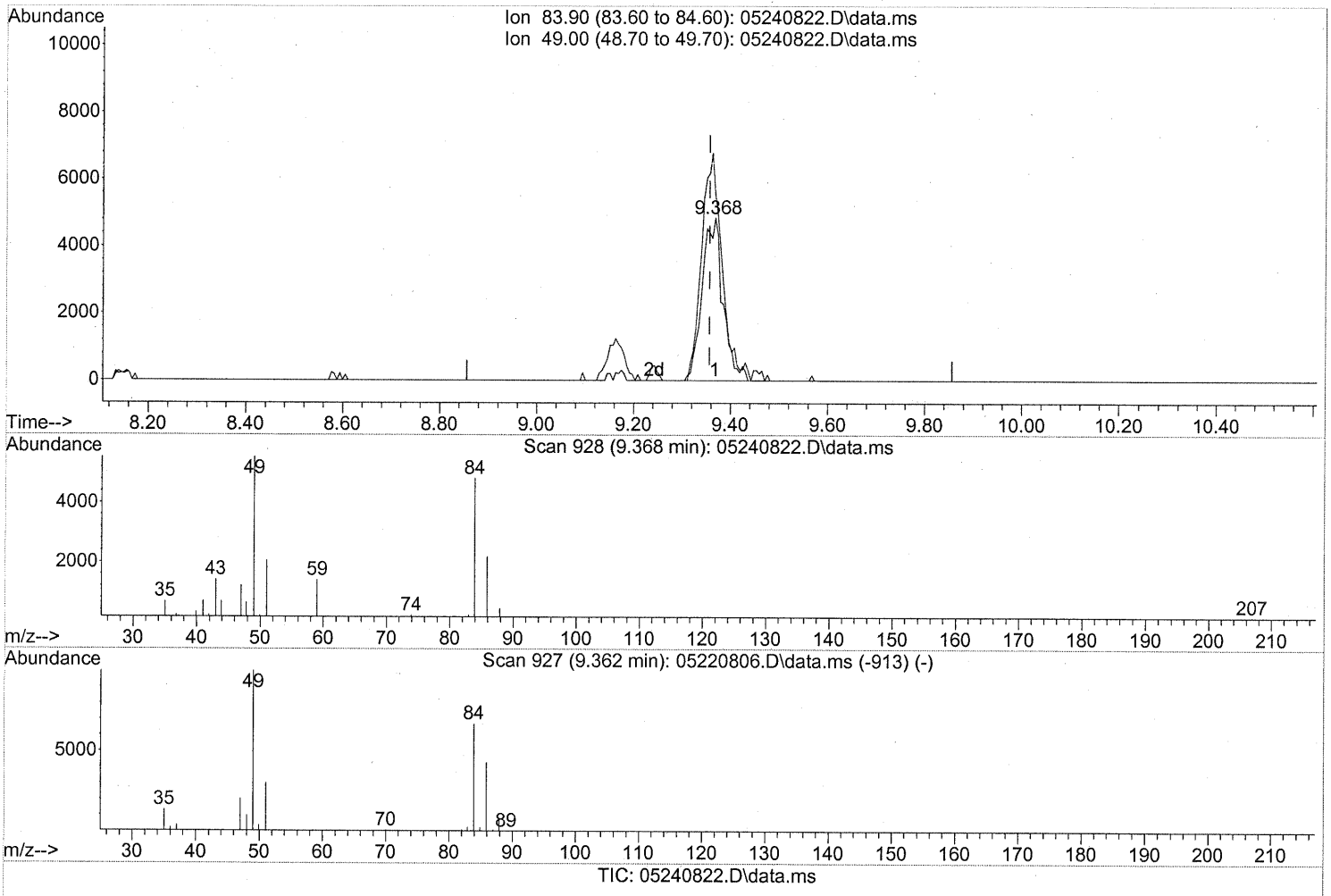
WA 5/30/08

800

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.42ng

response 14441

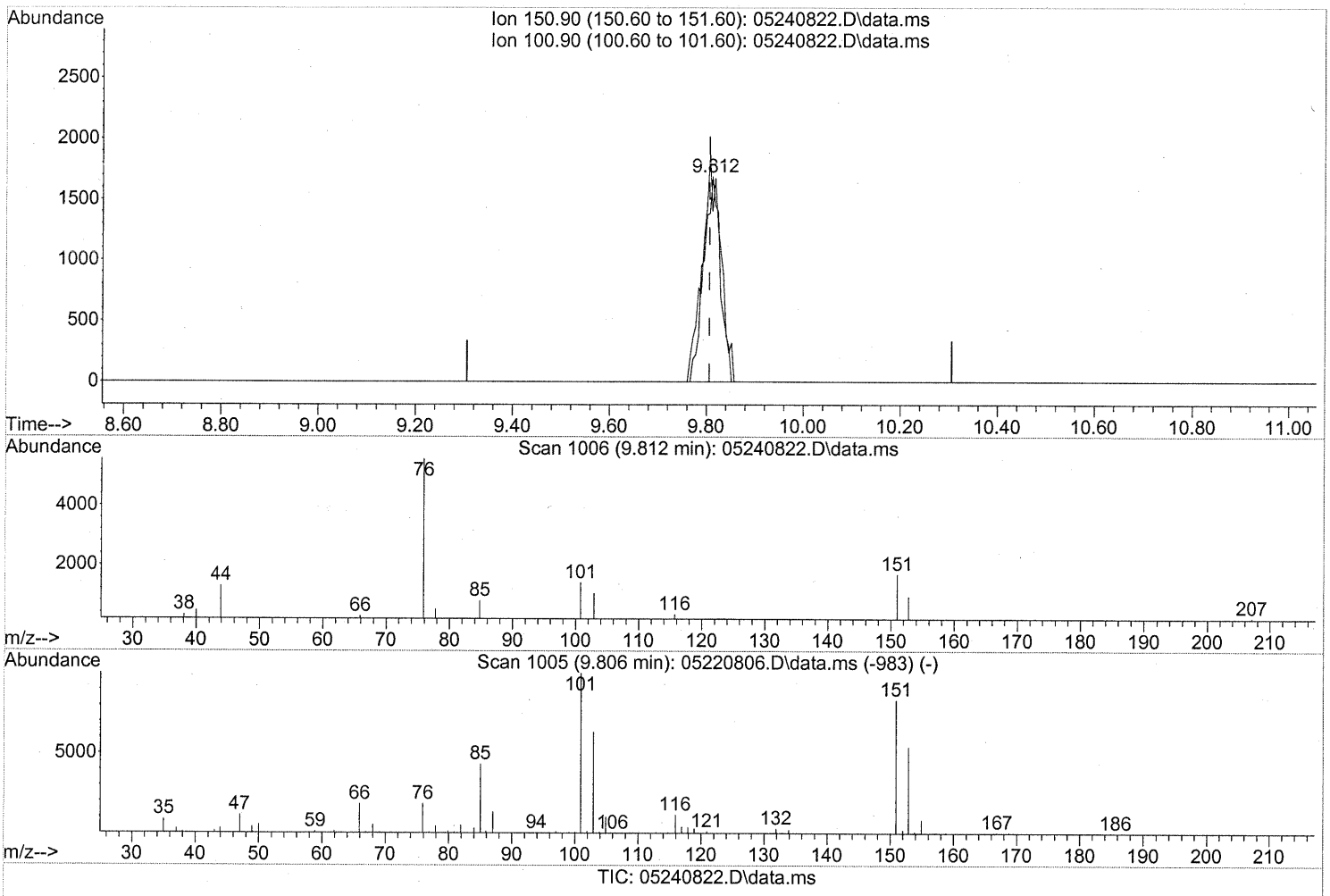
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	137.62#
0.00	0.00	0.00
0.00	0.00	0.00

801

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.13ng

response 4158

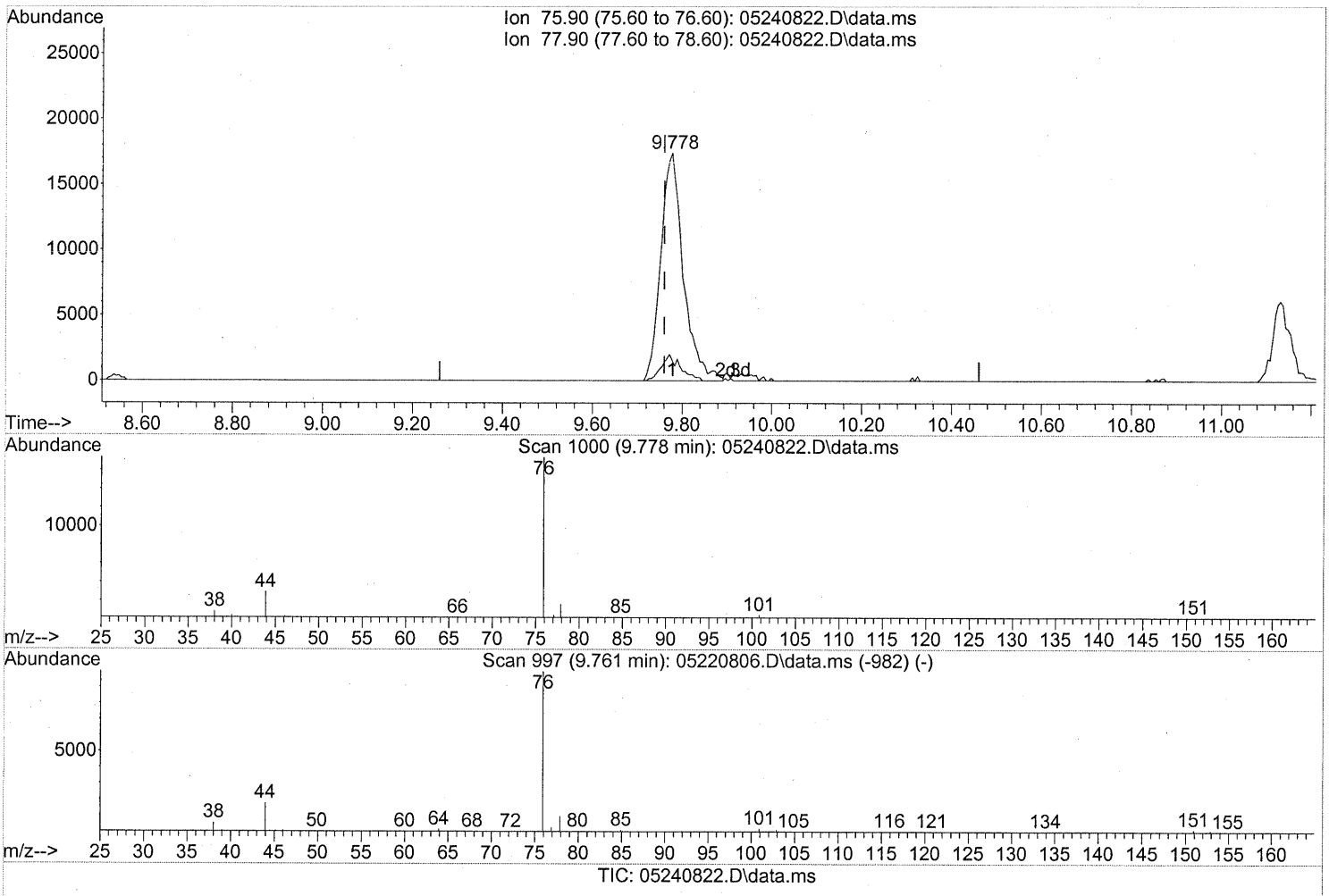
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	114.55
0.00	0.00	0.00
0.00	0.00	0.00

802

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(22) Carbon Disulfide (T)

9.778min (+0.017) 0.46ng

response 60146

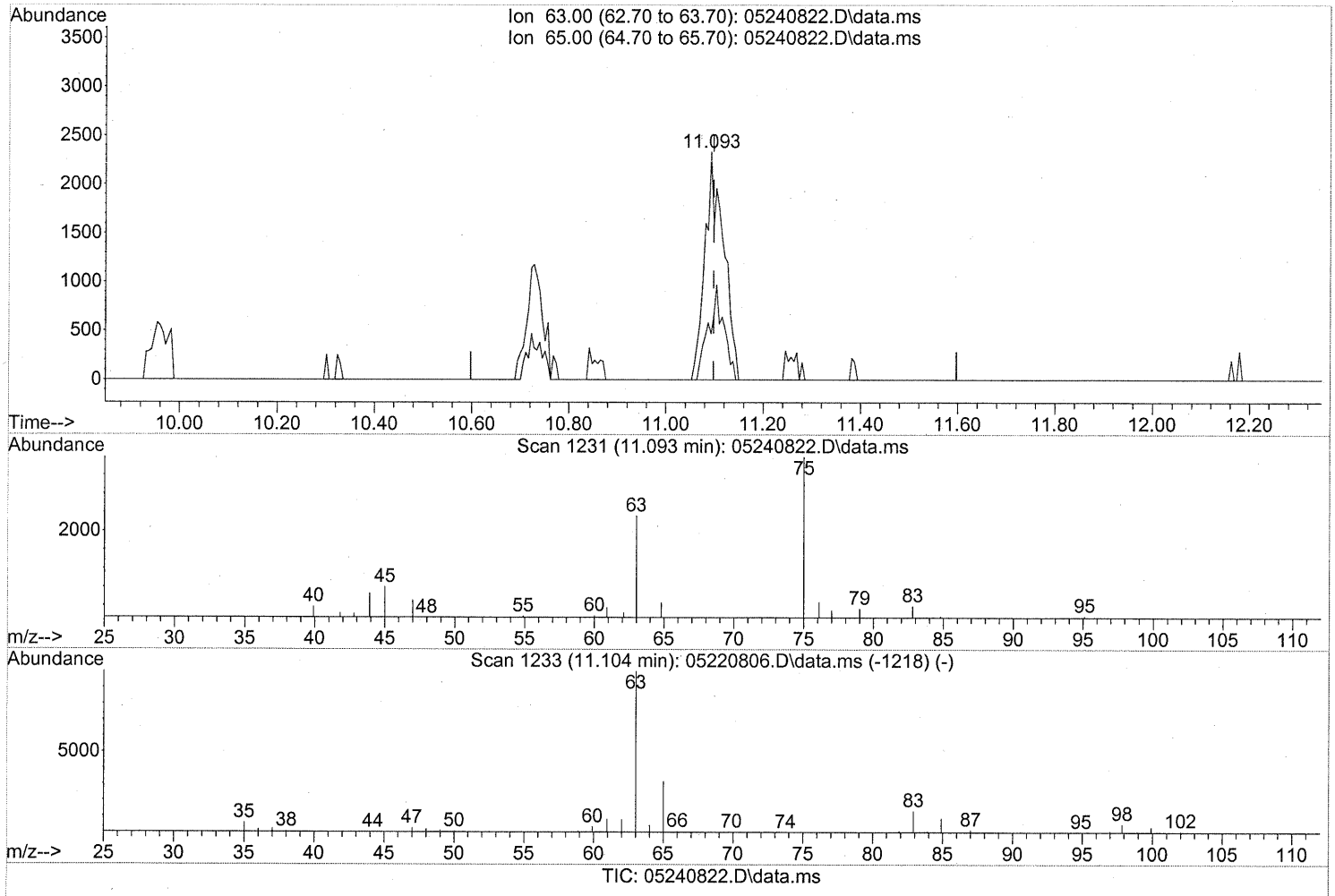
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.68
0.00	0.00	0.00
0.00	0.00	0.00

803

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(24) 1,1-Dichloroethane (T)

11.093min (-0.006) 0.10ng

response 6189

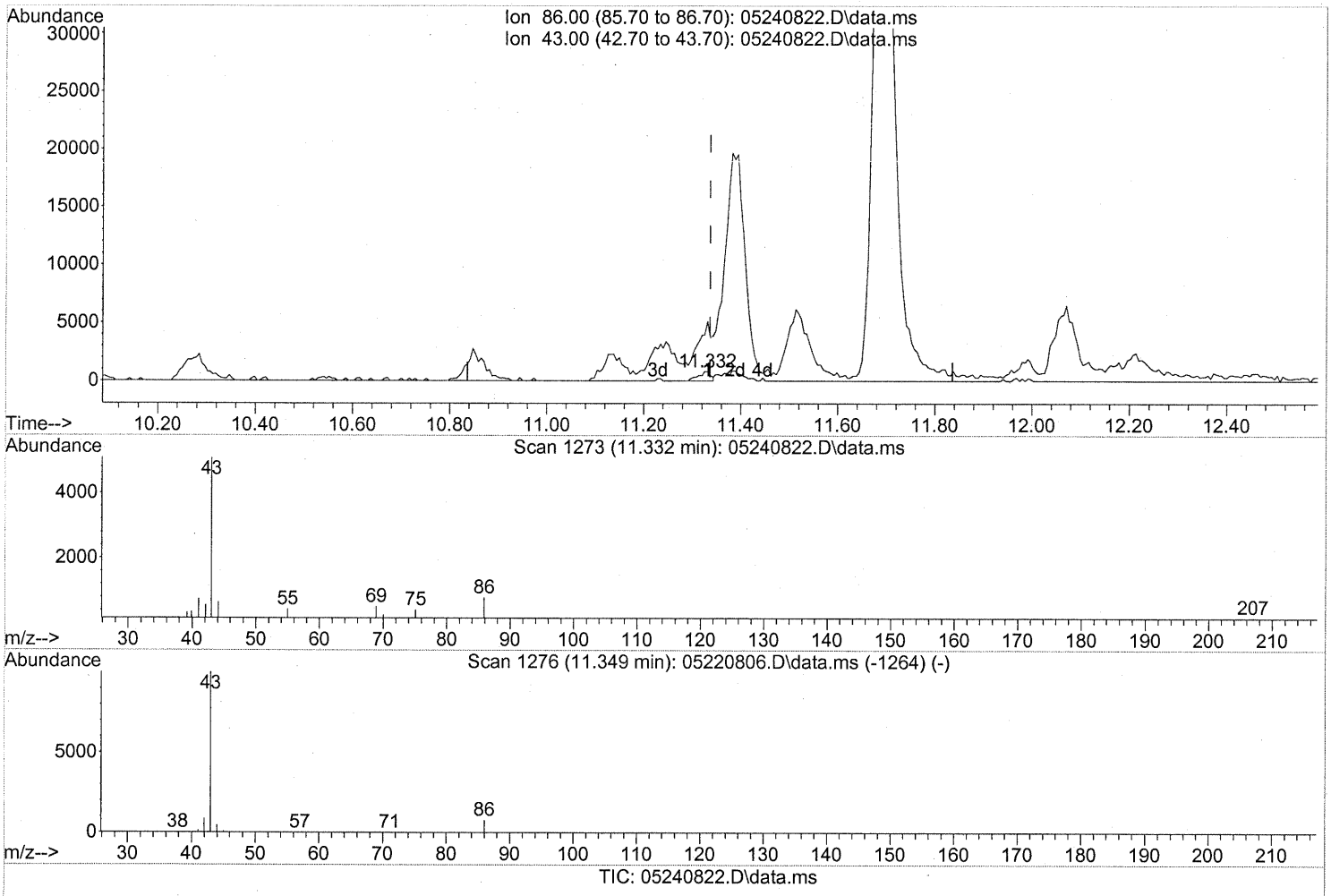
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	33.77
0.00	0.00	0.00
0.00	0.00	0.00

804

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(26) Vinyl Acetate (T)

11.332min (-0.005) 0.24ng

response 1356

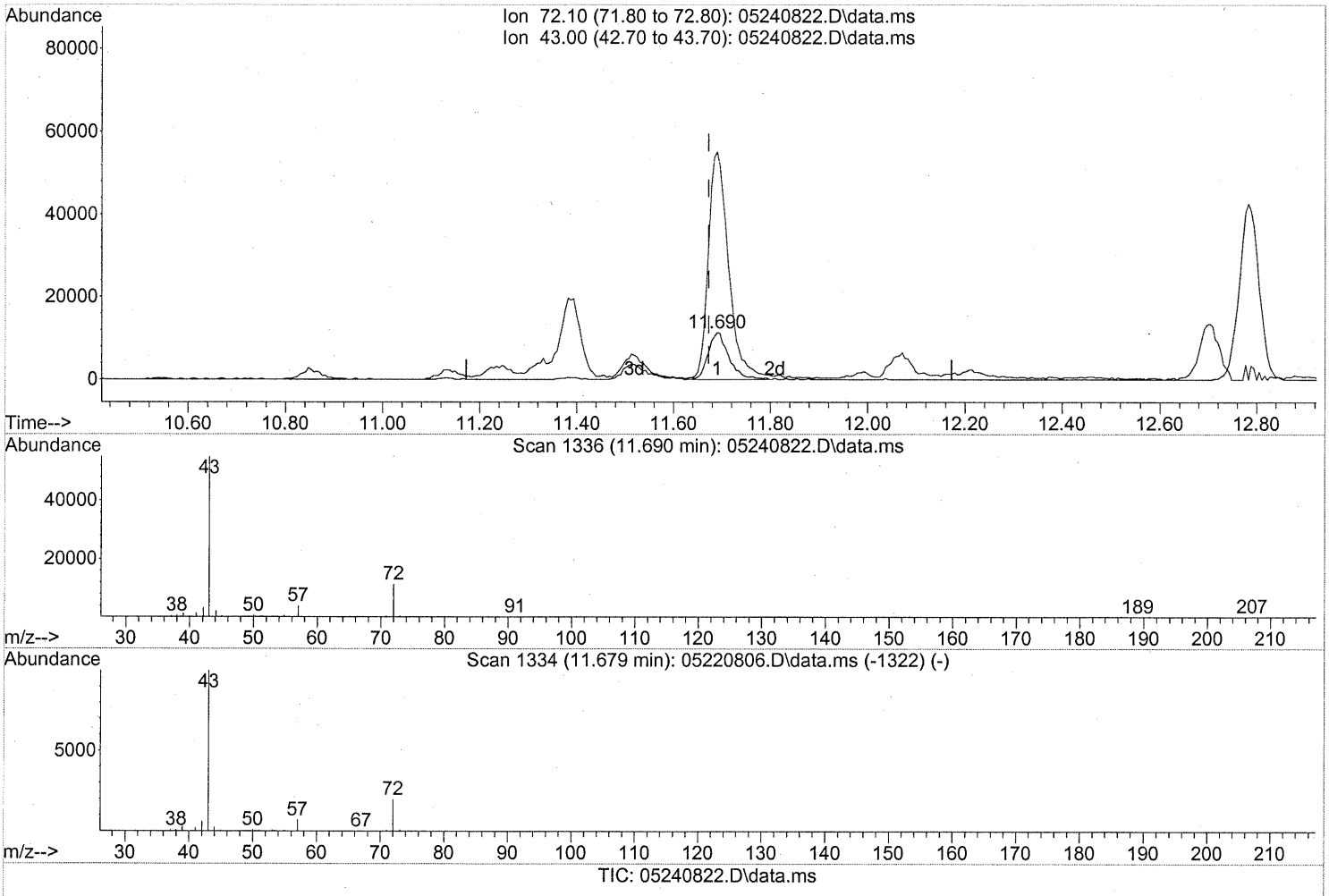
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	723.89#
0.00	0.00	0.00
0.00	0.00	0.00

805

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(27) 2-Butanone (T)

11.690min (+0.017) 1.49ng

response 33629

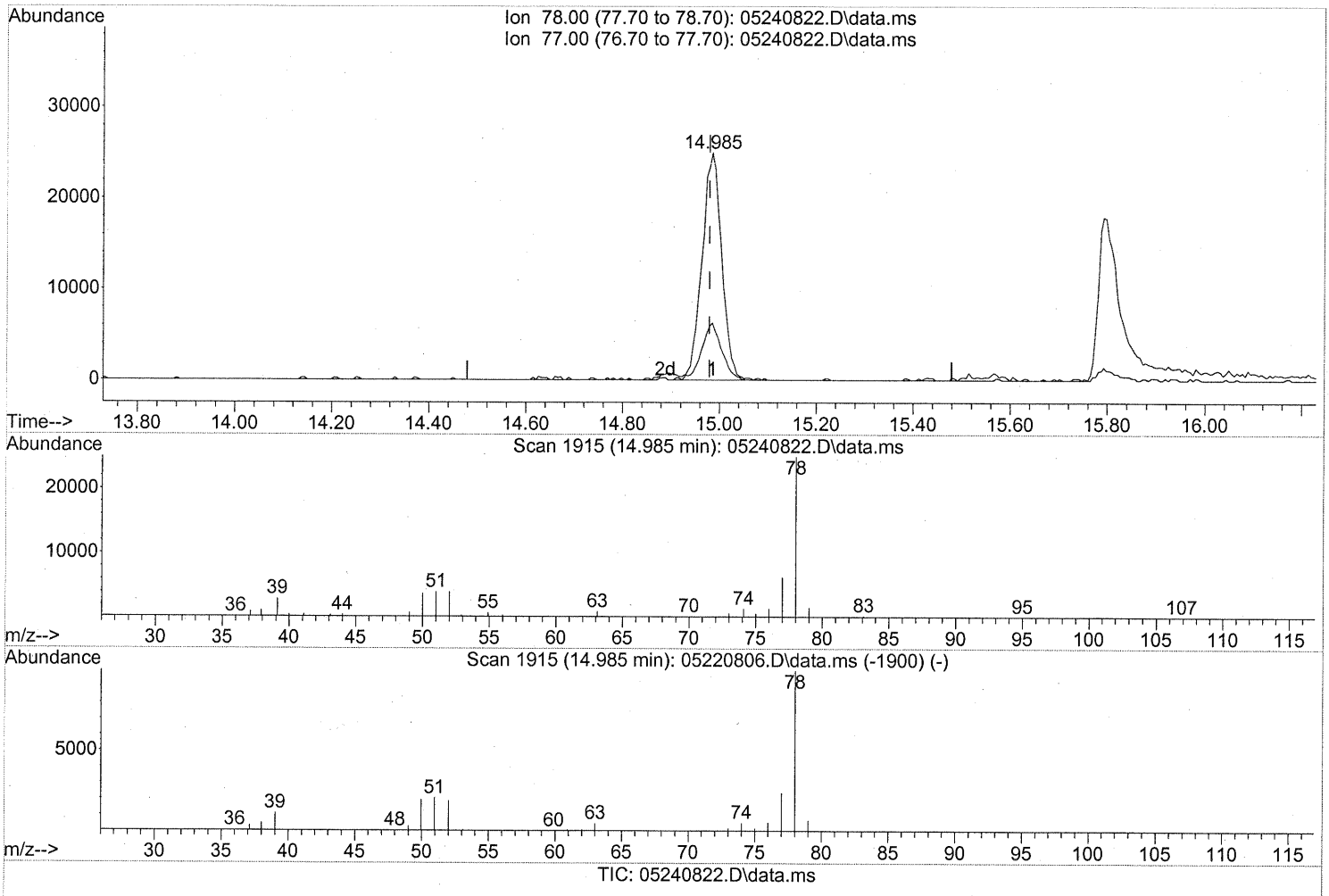
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	474.57#
0.00	0.00	0.00
0.00	0.00	0.00

806

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(41) Benzene (T)

14.985min (+0.006) 0.56ng

response 70175

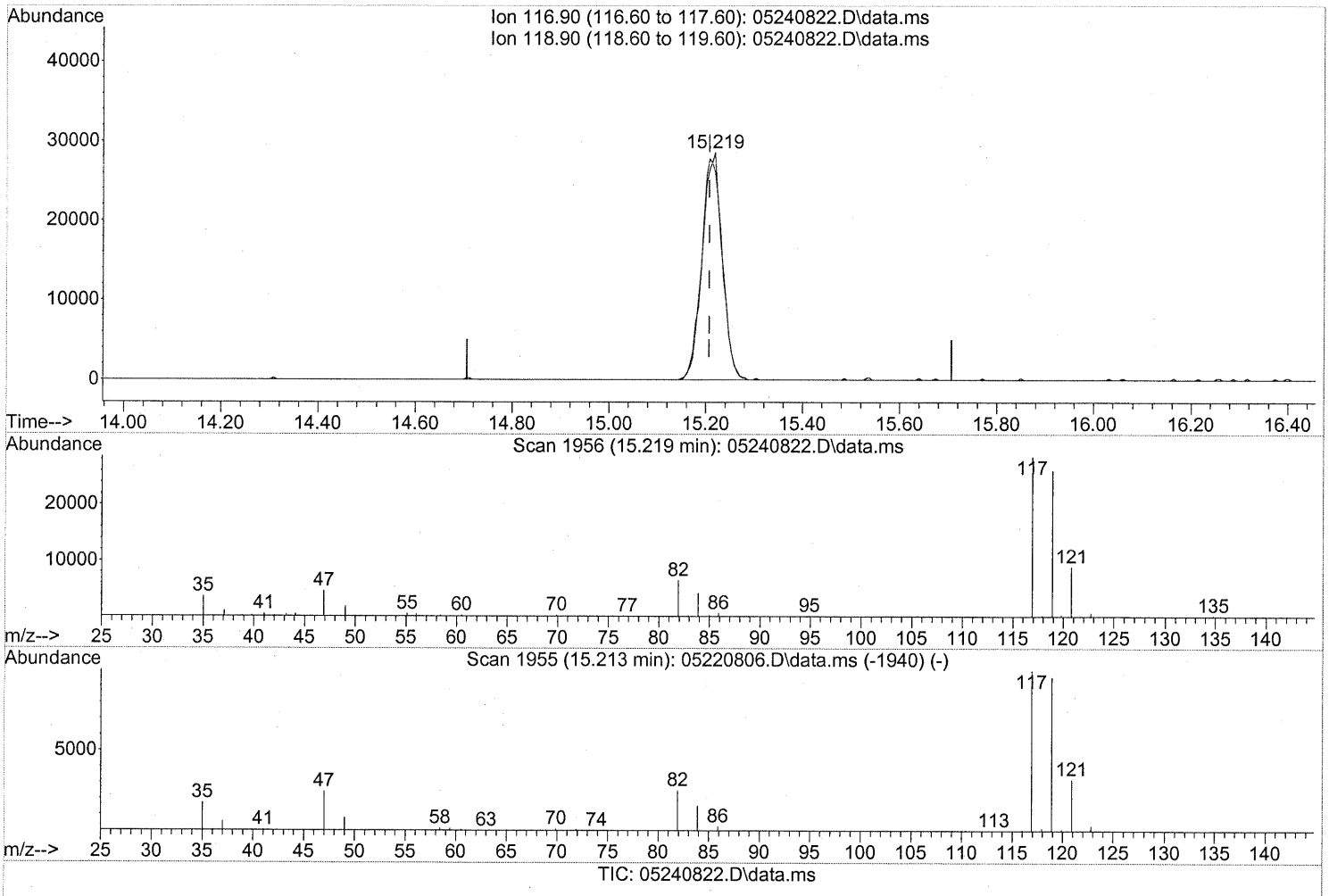
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	25.50
0.00	0.00	0.00
0.00	0.00	0.00

807

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(42) Carbon Tetrachloride (T)

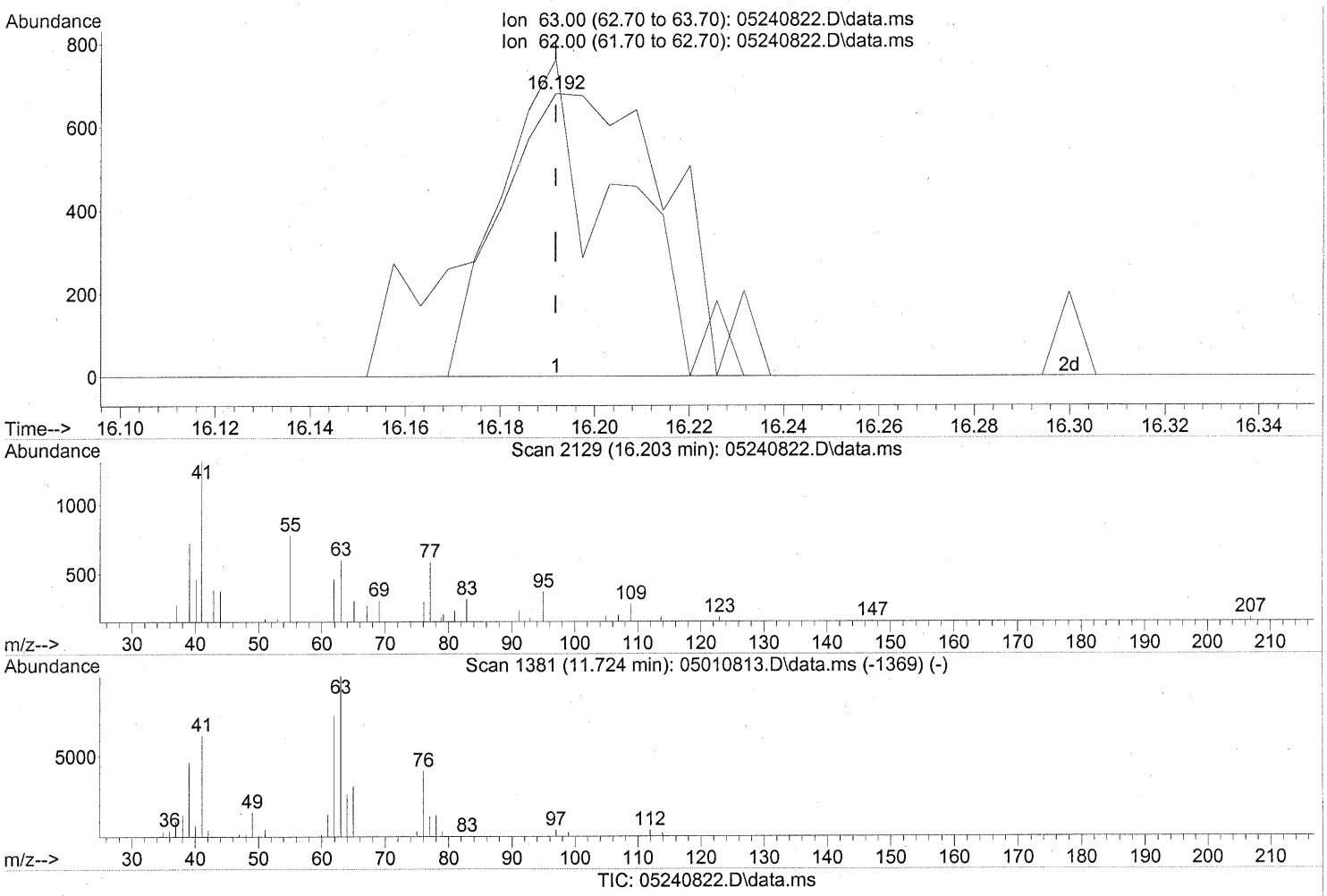
15.219min (+0.011) 1.70ng

response 82726

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 9:35 pm
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(45) 1,2-Dichloropropane (T)

16.192min (+0.000) 0.06ng

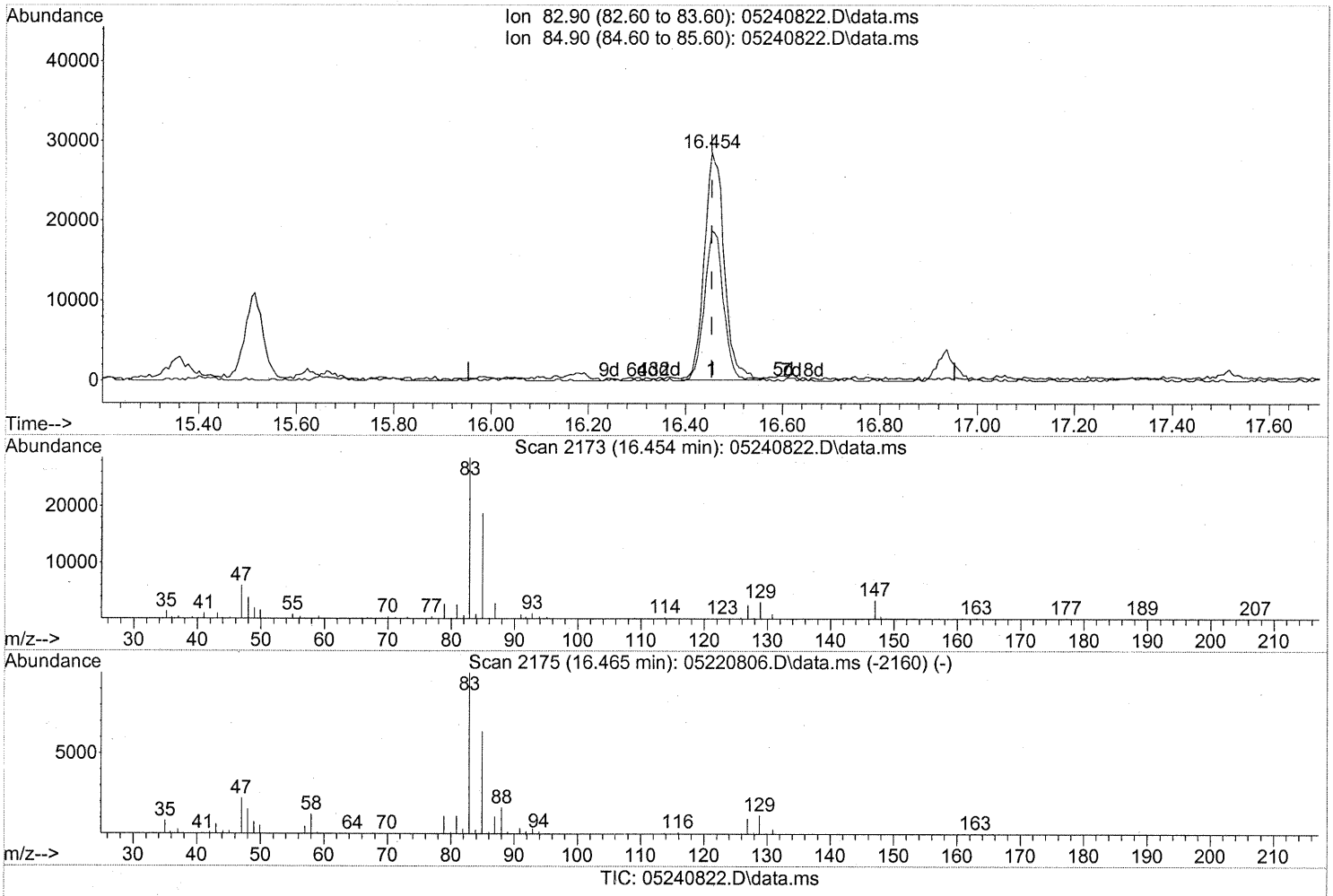
response 1935

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	68.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(46) Bromodichloromethane (T)

16.454min (+0.000) 1.90ng

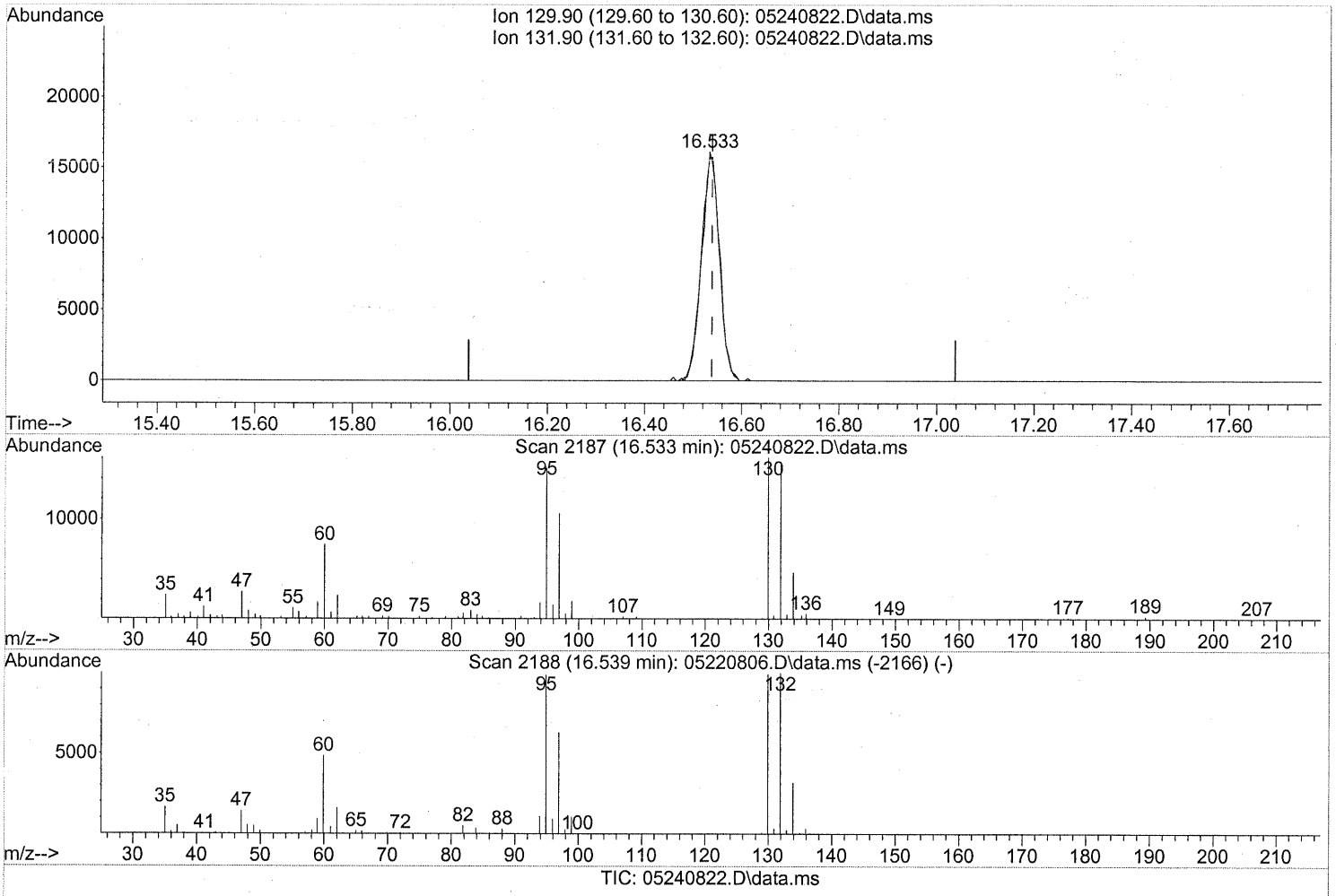
response 81084

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	63.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 1.07ng

response 41475

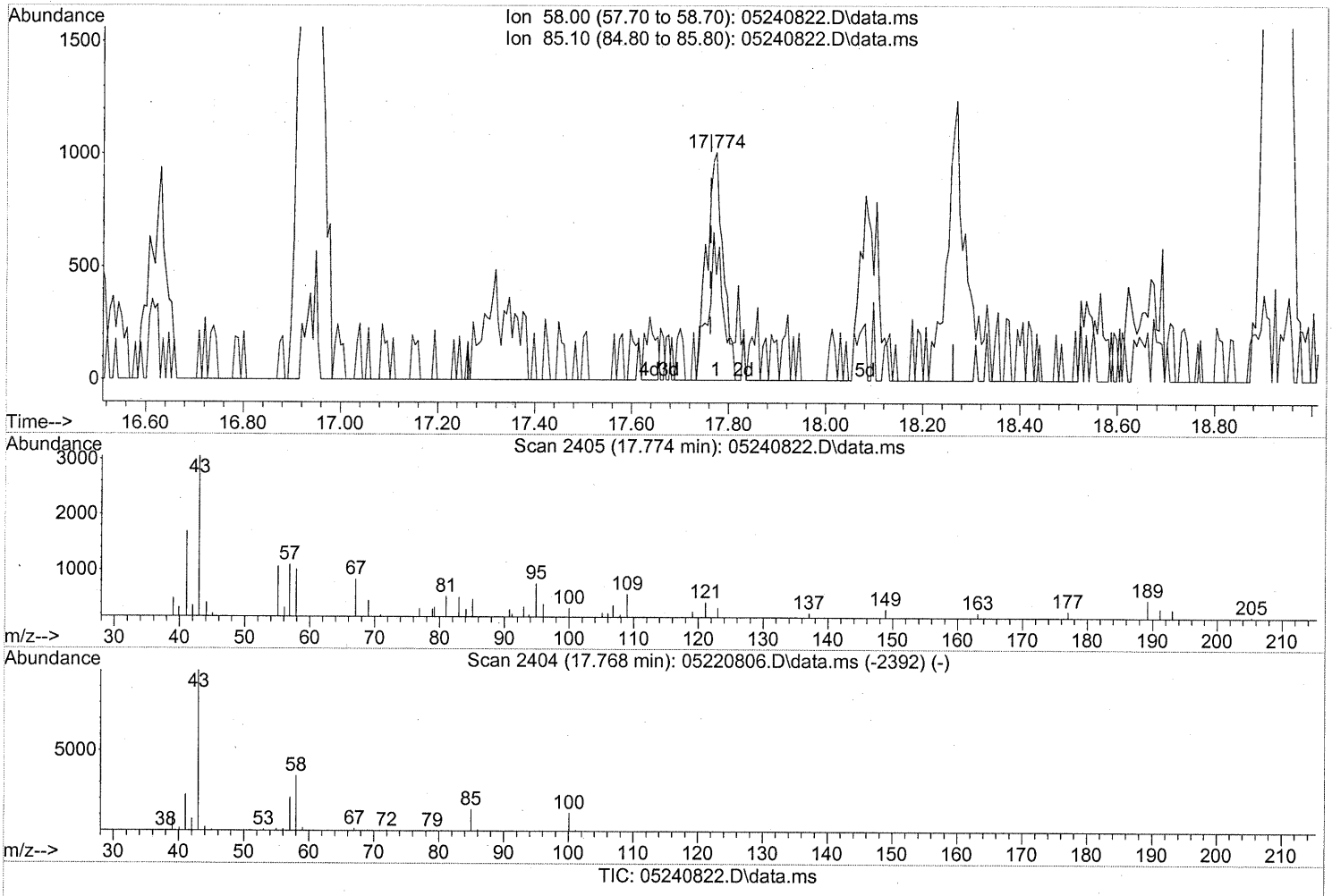
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	98.12
0.00	0.00	0.00
0.00	0.00	0.00

811

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

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

17.774min (+0.011) 0.07ng

response 2361

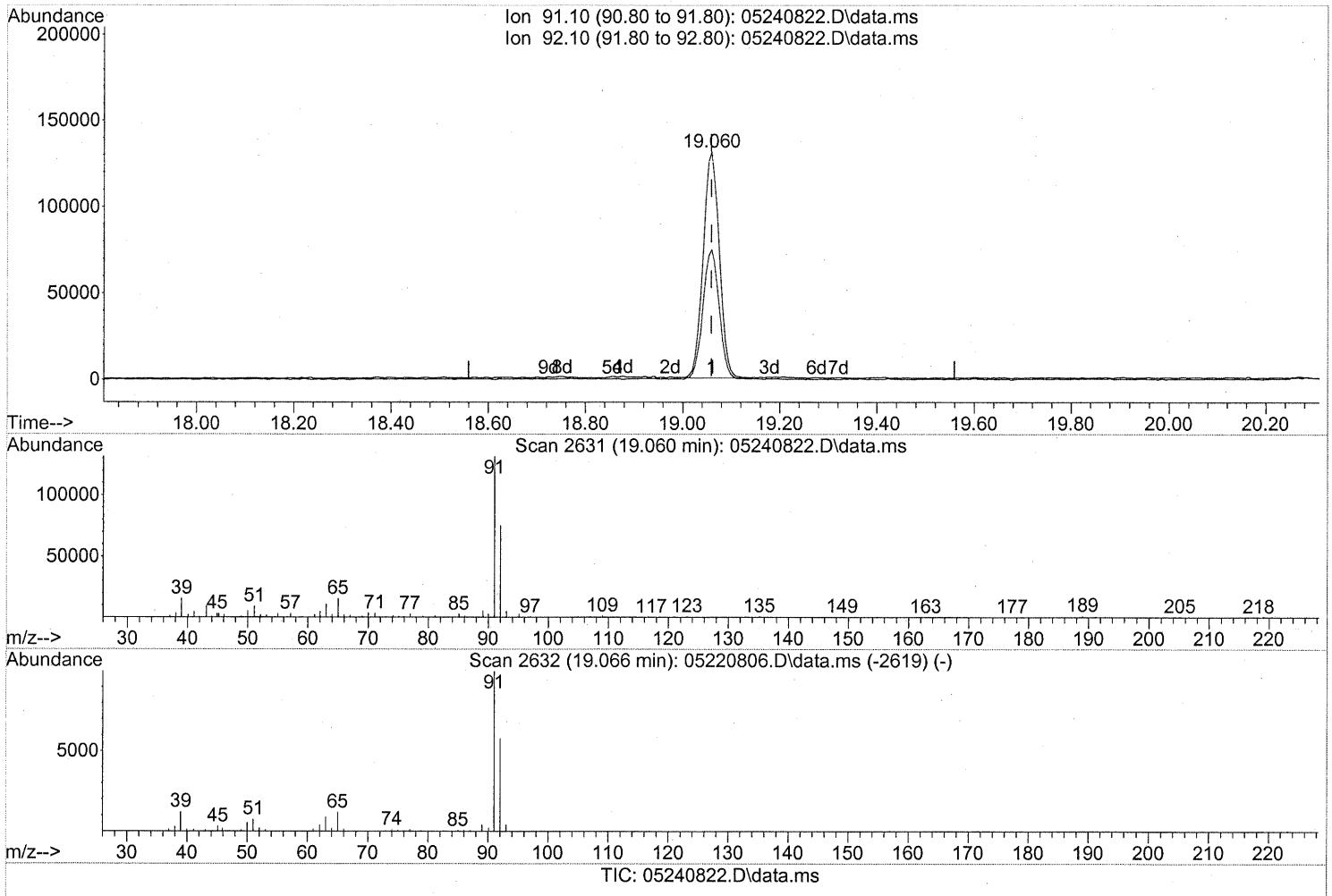
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	63.45#
0.00	0.00	0.00
0.00	0.00	0.00

812

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 2.20ng

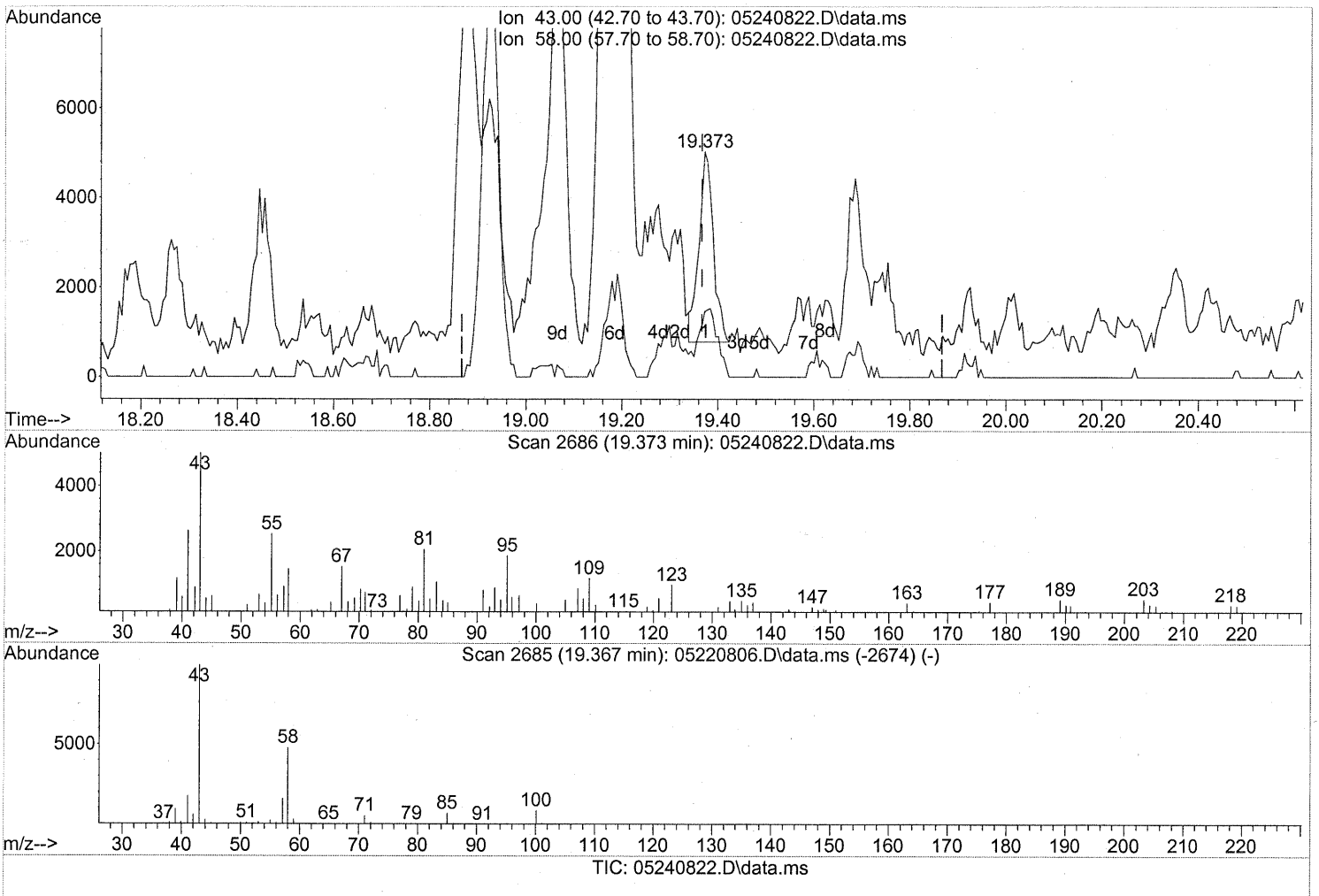
response 302488

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.09ng

response 8910

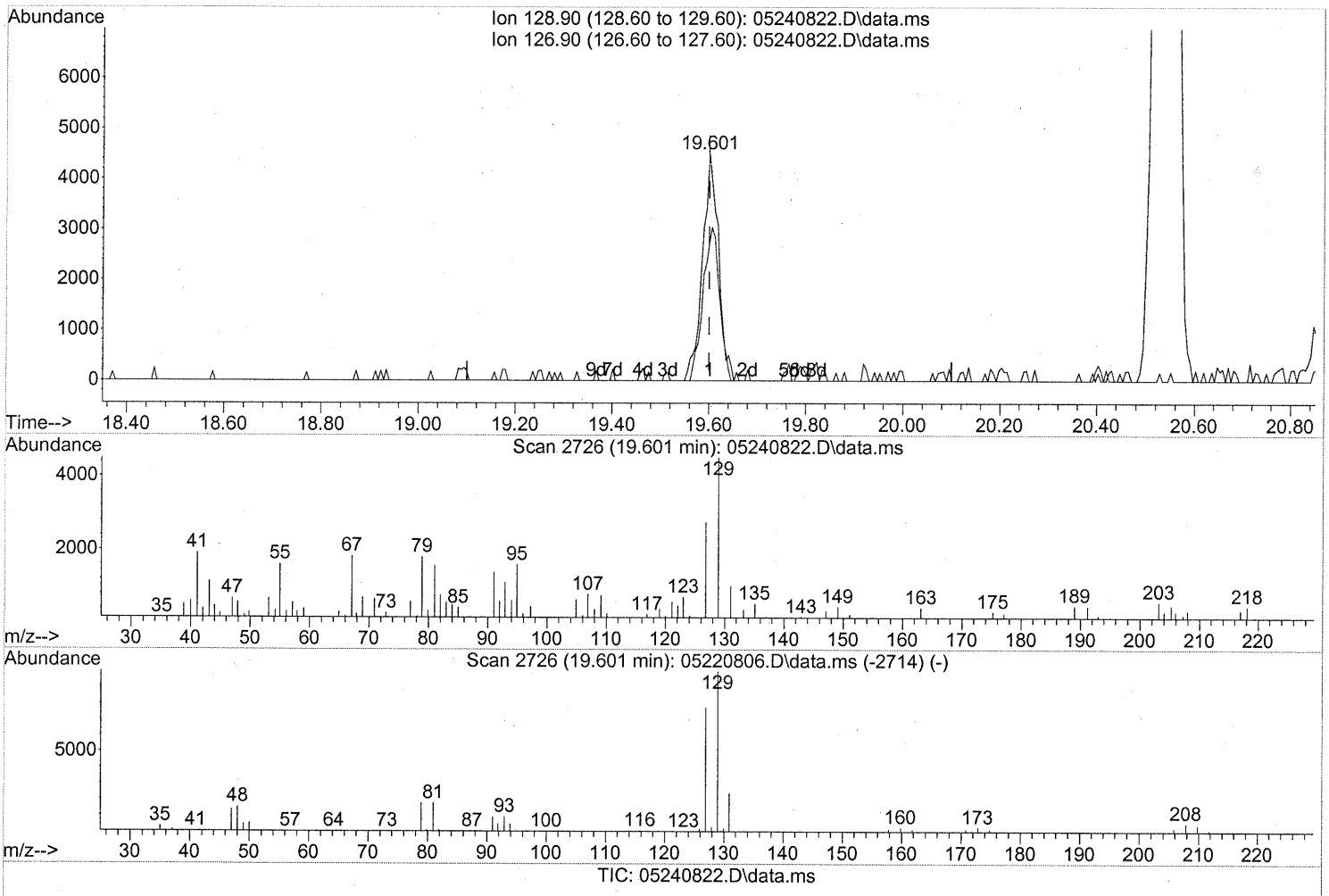
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.84
0.00	0.00	0.00
0.00	0.00	0.00

814

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(60) Dibromochloromethane (T)

19.601min (0.000) 0.28ng

response 10372

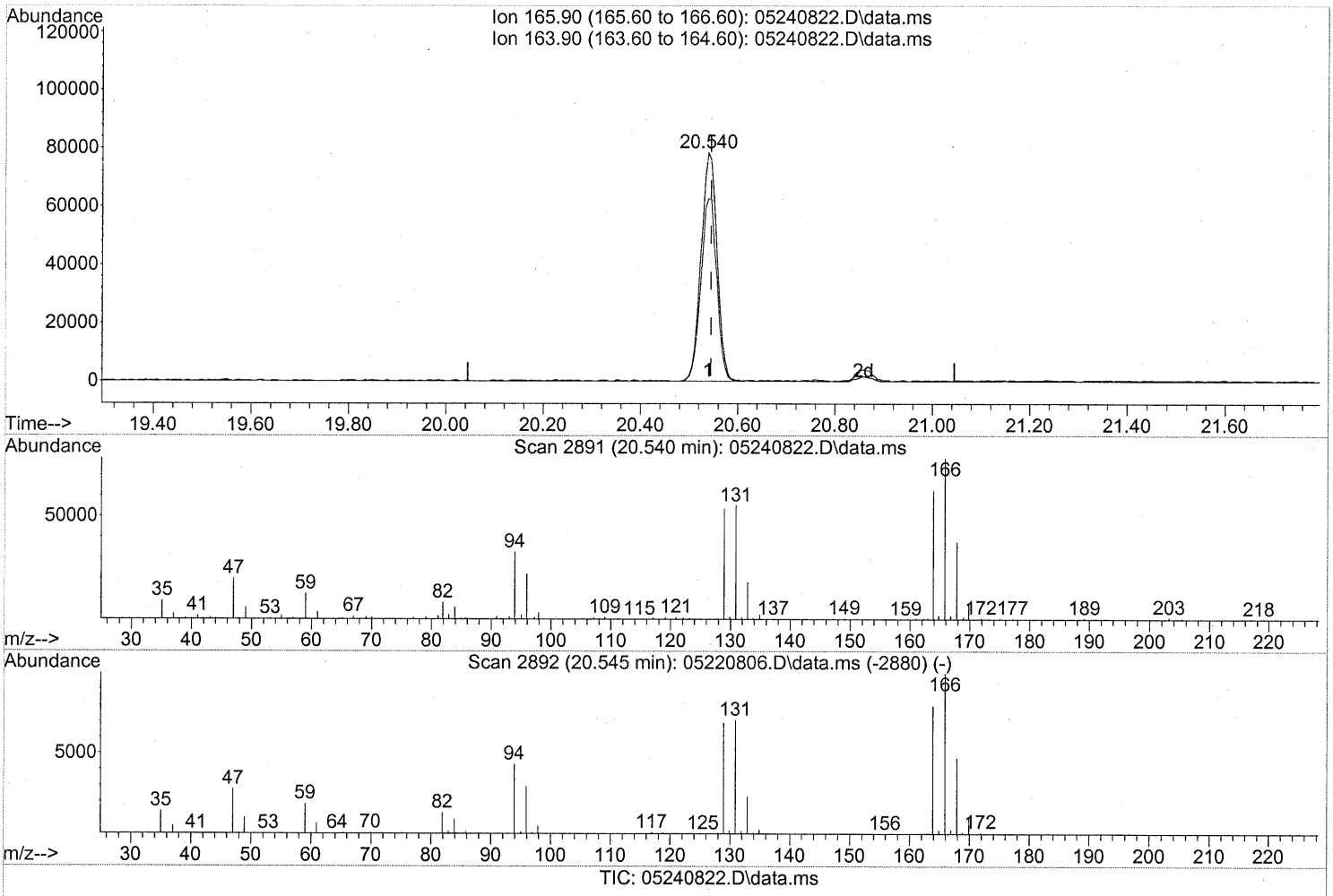
Ion	Exp%	Act%
128.90	100	100
126.90	76.90	69.04
0.00	0.00	0.00
0.00	0.00	0.00

815

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 4.39ng

response 178222

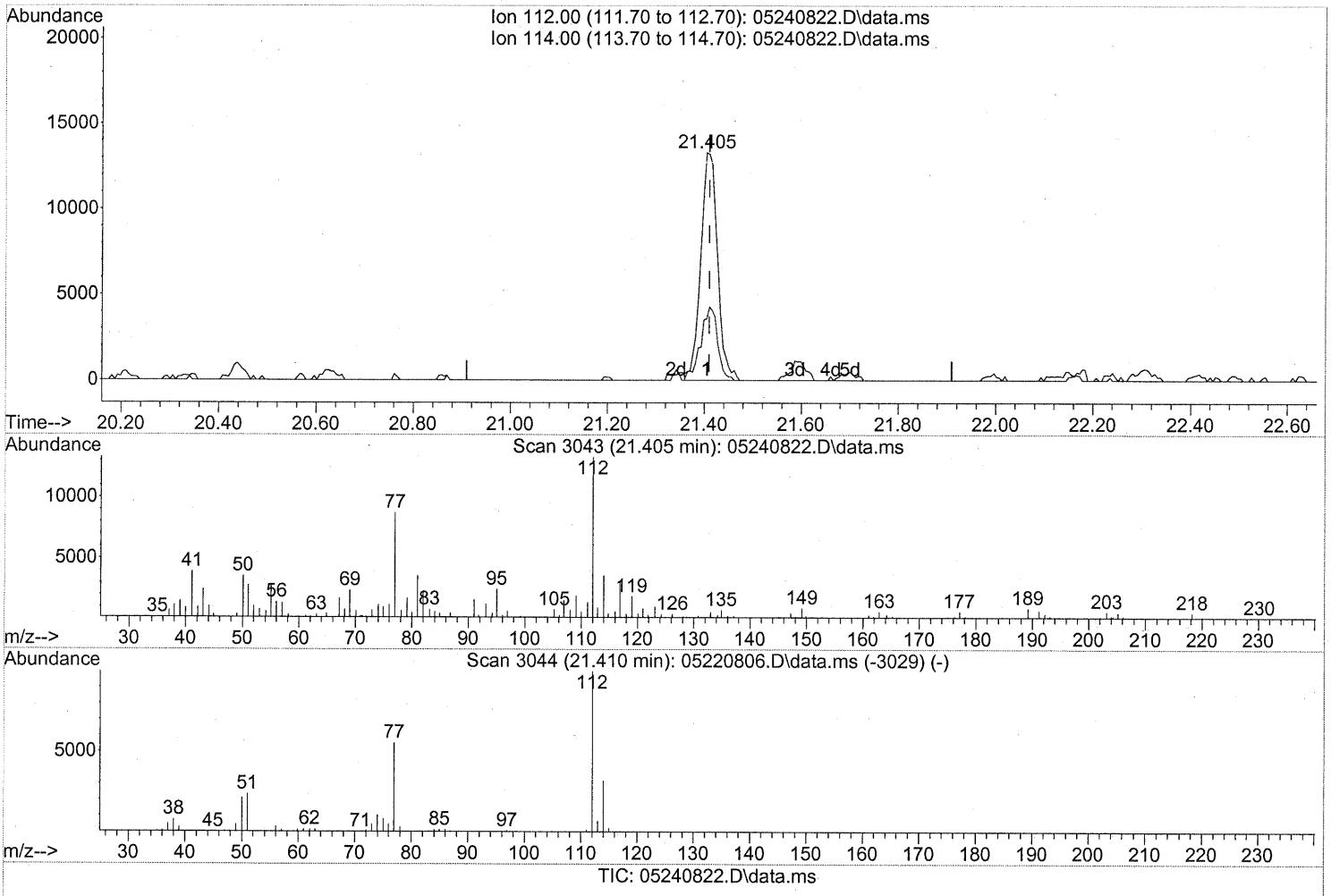
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.38
0.00	0.00	0.00
0.00	0.00	0.00

816

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(65) Chlorobenzene (T)

21.405min (-0.006) 0.34ng

response 31698

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.32
0.00	0.00	0.00
0.00	0.00	0.00

817

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
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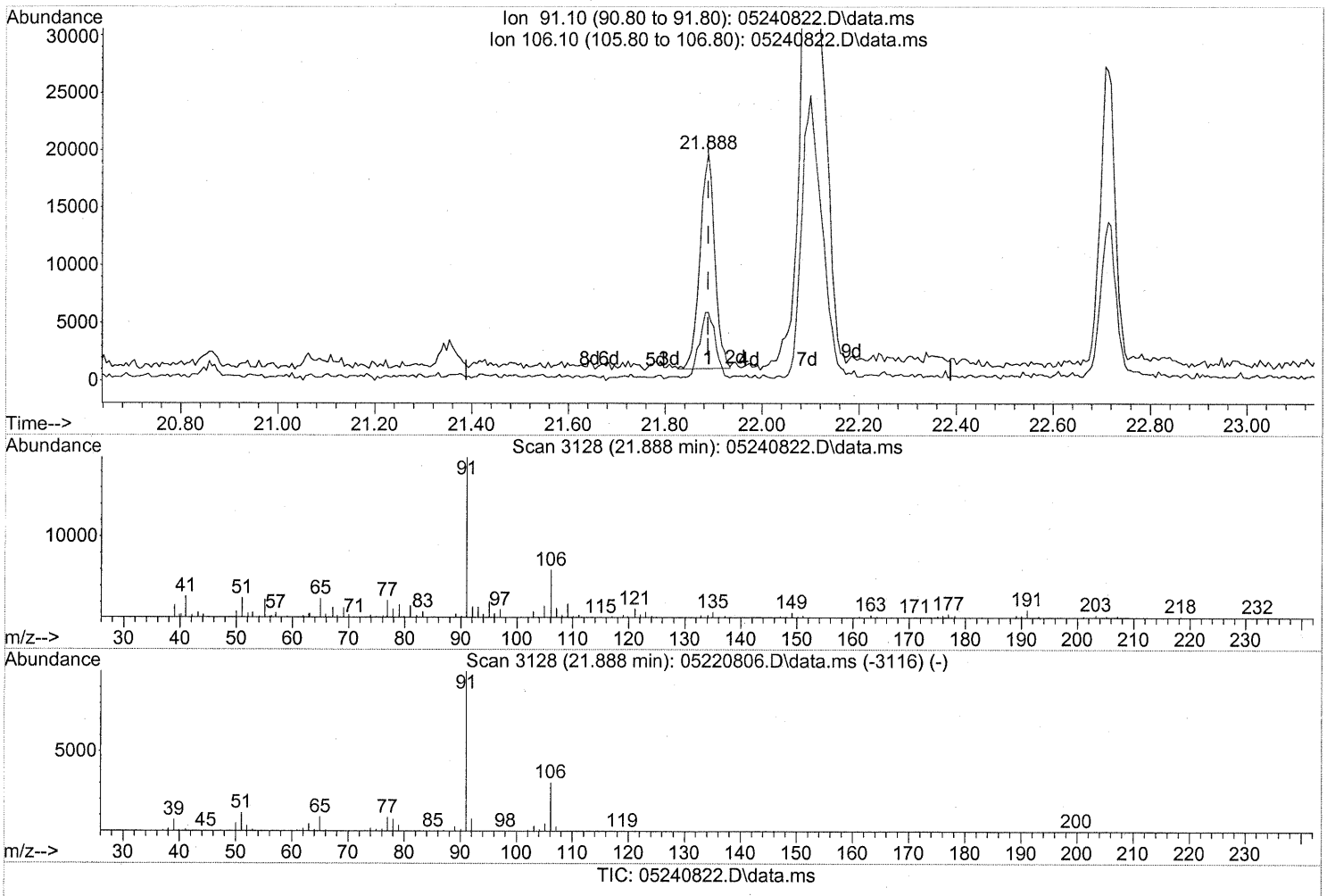


TIC: 05240822.D\data.ms

(66) Ethylbenzene (T)

21.888min (0.000) 0.25ng

response 39235

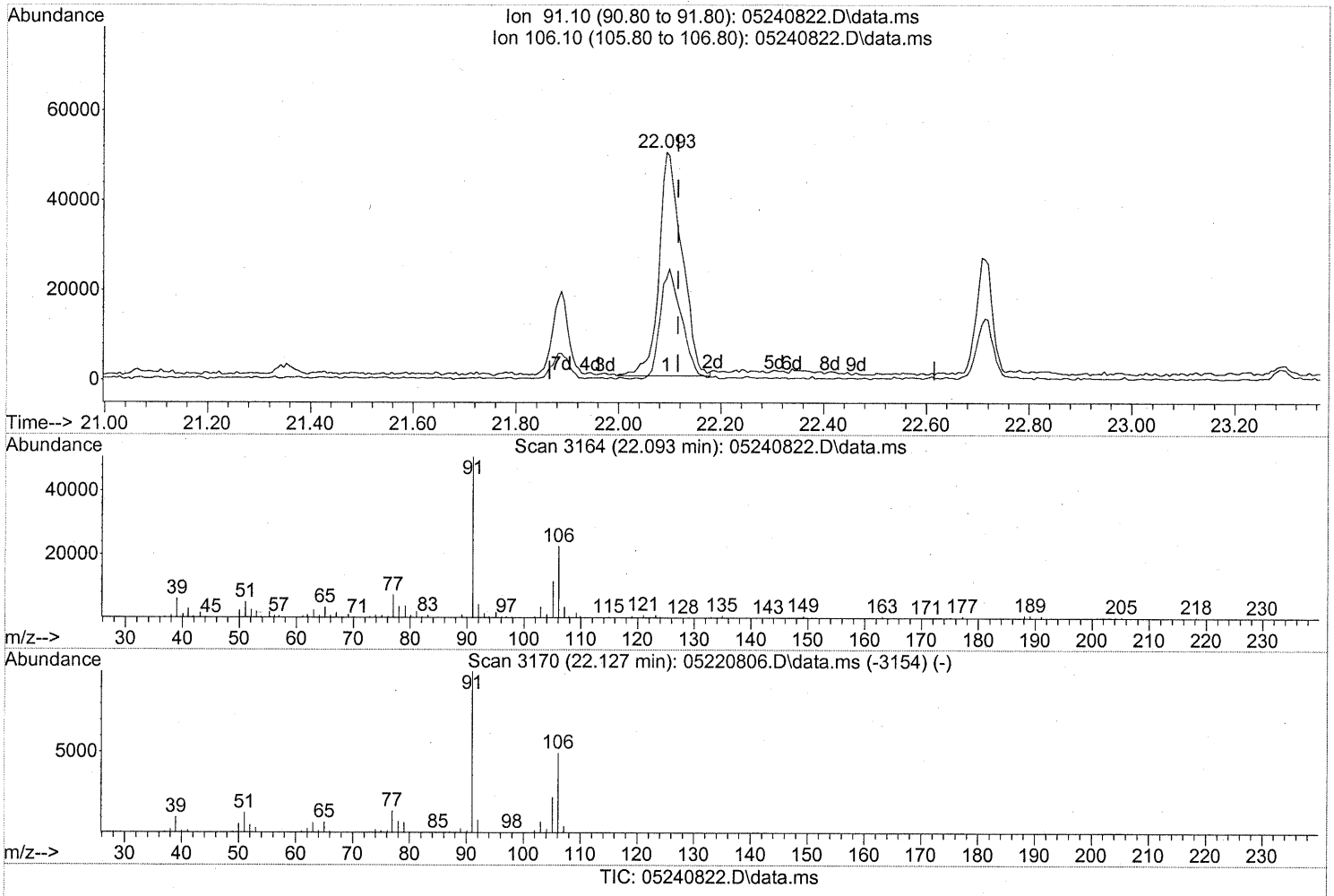
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	32.94
0.00	0.00	0.00
0.00	0.00	0.00

818

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

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

22.093min (-0.023) 1.47ng

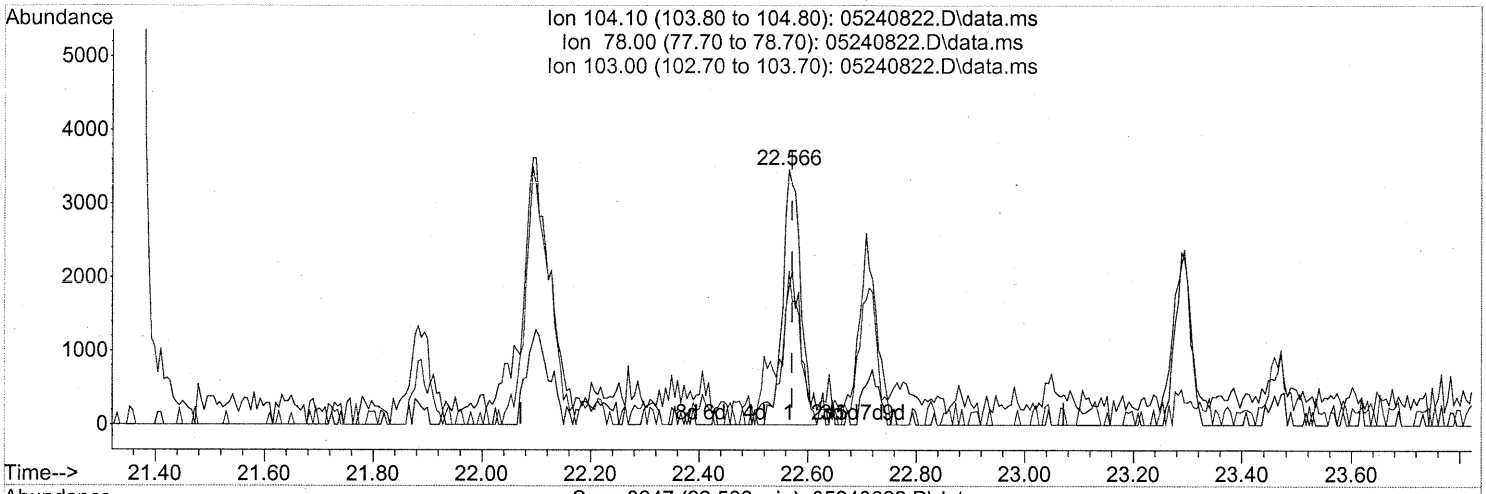
response 154883

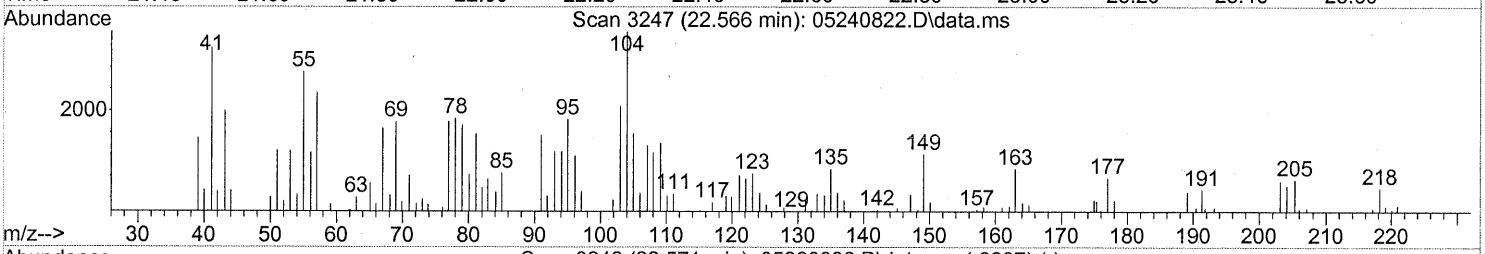
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	46.23
0.00	0.00	0.00
0.00	0.00	0.00

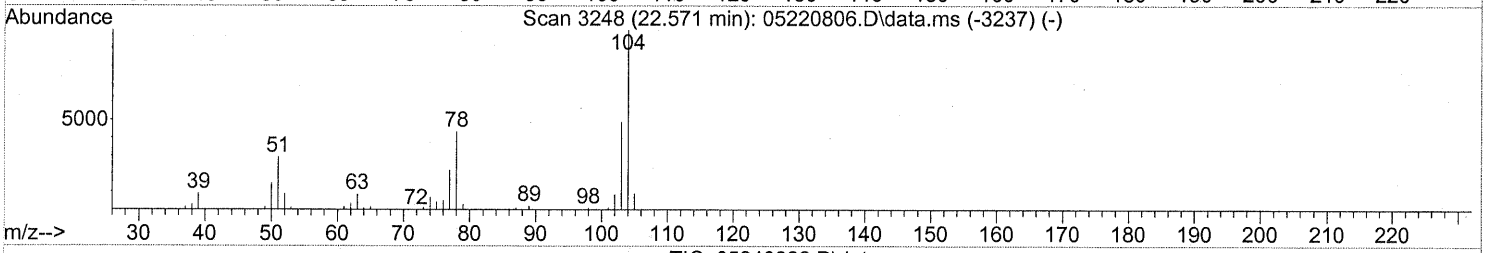
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(69) Styrene (T)

22.566min (-0.006) 0.08ng

response 7830

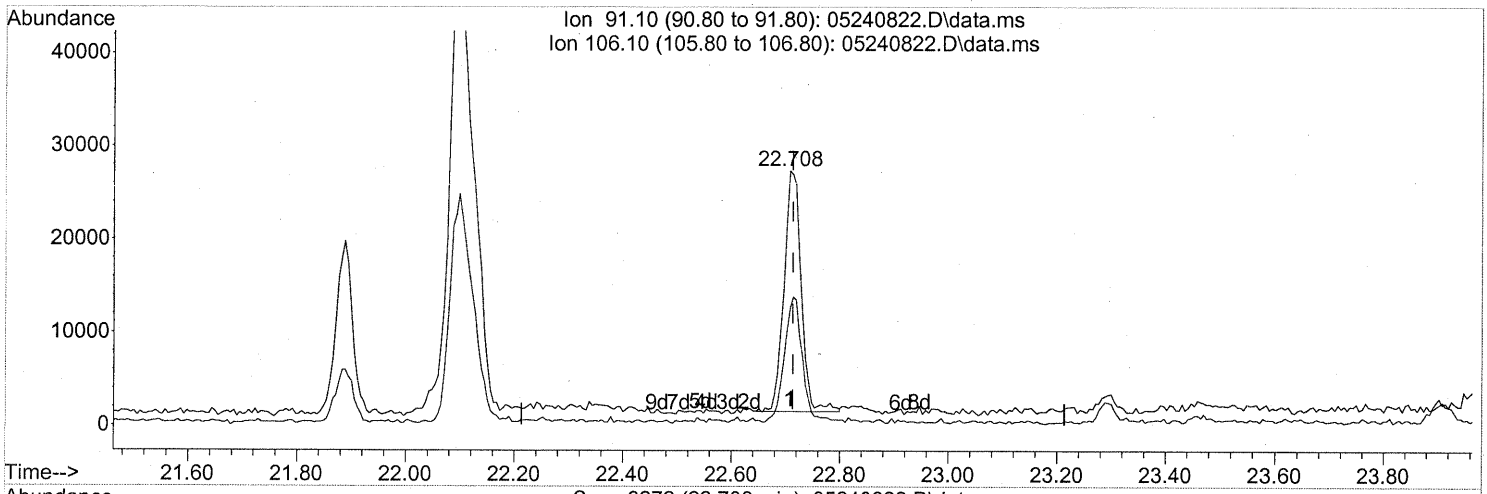
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	46.78
103.00	47.10	59.30
0.00	0.00	0.00

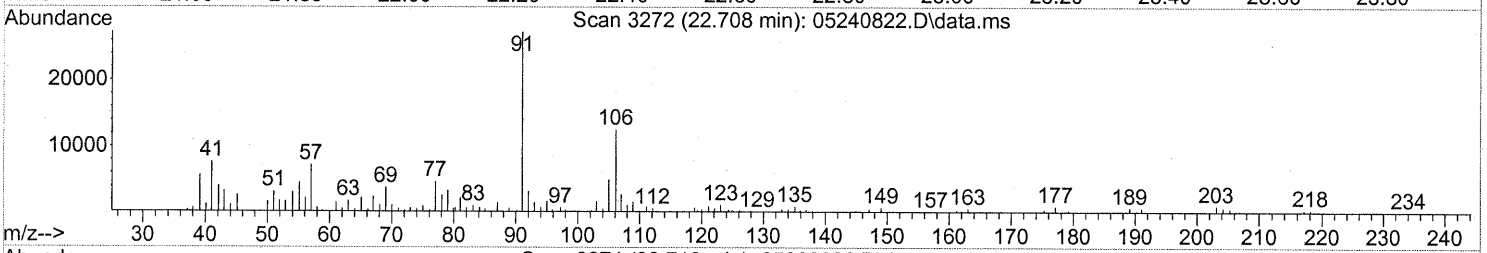
820

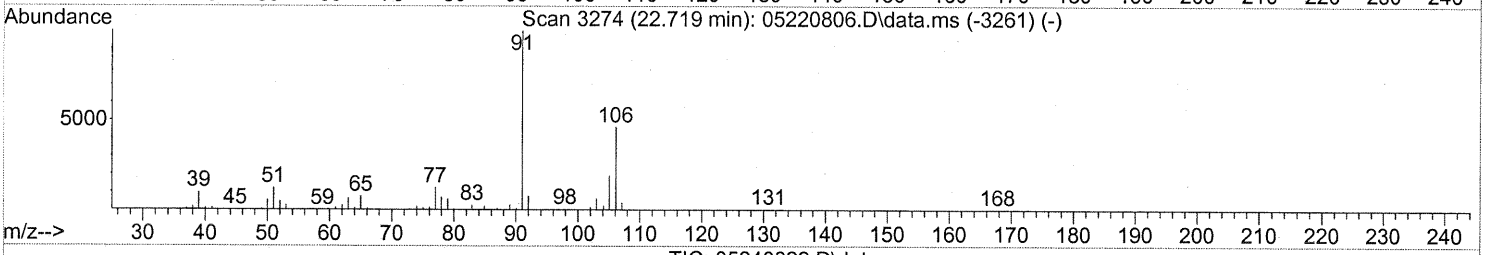
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(70) o-Xylene (T)

22.708min (-0.006) 0.50ng

response 56319

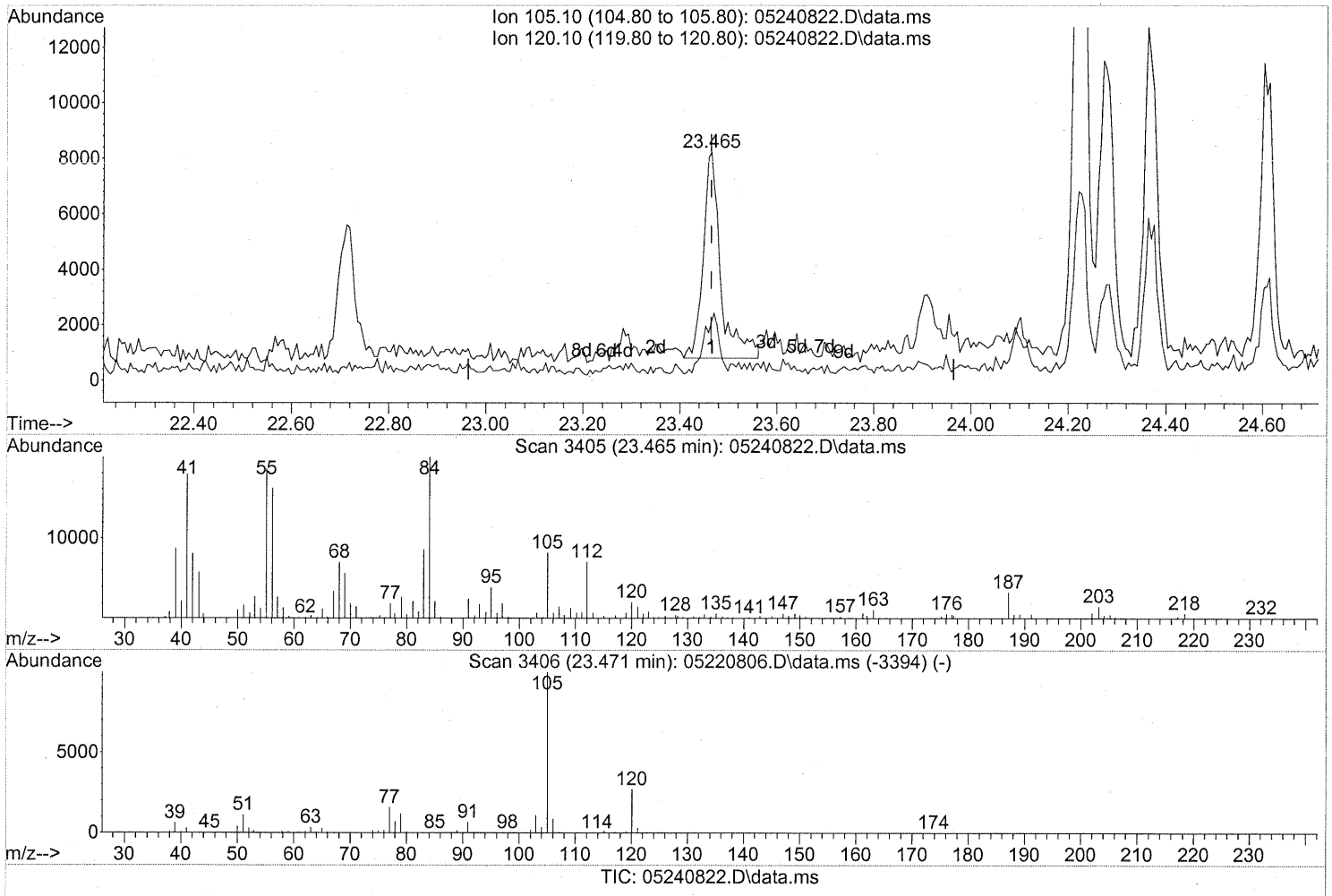
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	55.41
0.00	0.00	0.00
0.00	0.00	0.00

821

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801422-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 09:05:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(74) Cumene (T)

23.465min (0.000) 0.12ng

response 18695

extra tailing

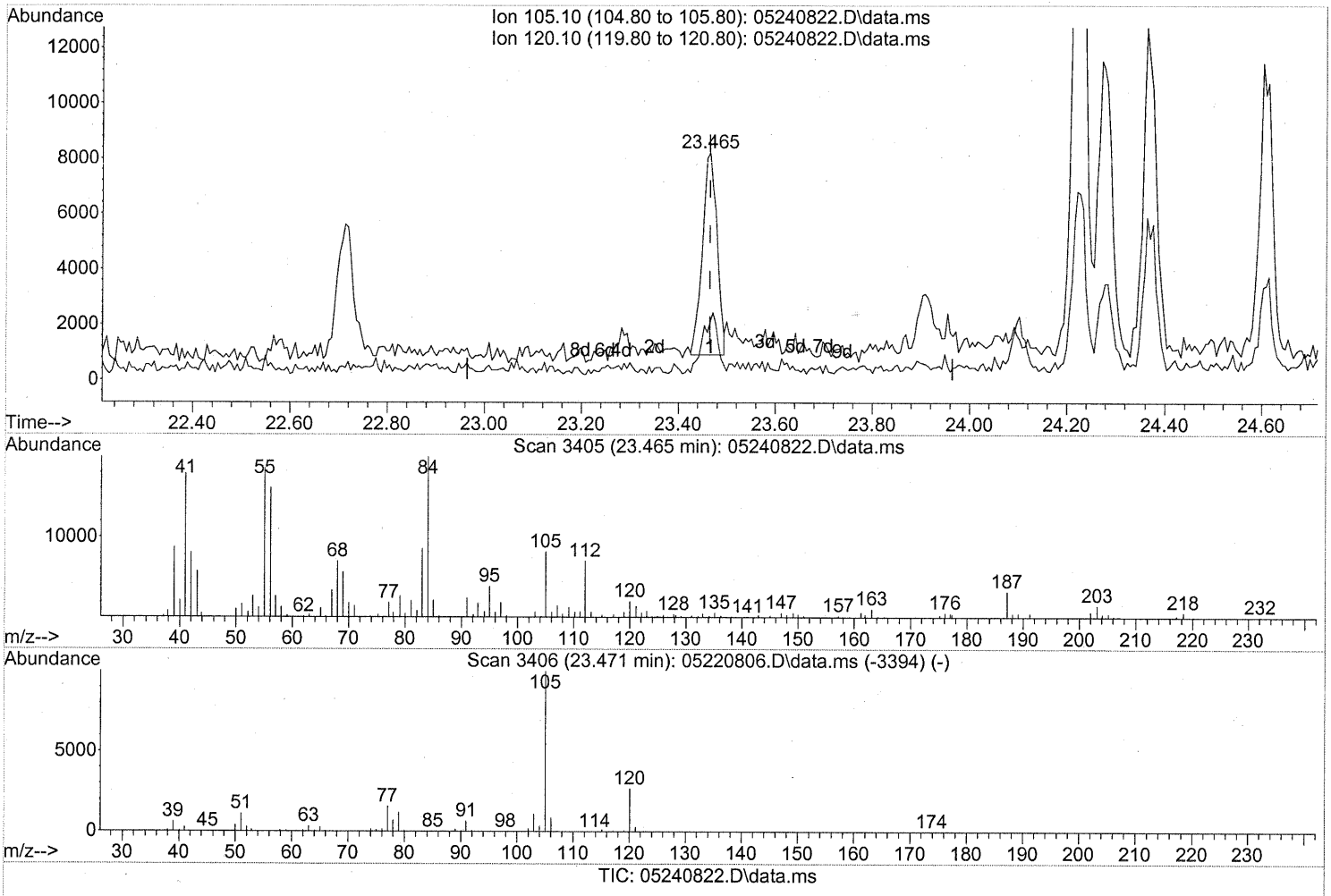
Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.49
0.00	0.00	0.00
0.00	0.00	0.00

822

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(74) Cumene (T)

23.465min (0.000) 0.10ng m

response 15067

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	31.63
0.00	0.00	0.00
0.00	0.00	0.00

corr. baseline

5/29/08

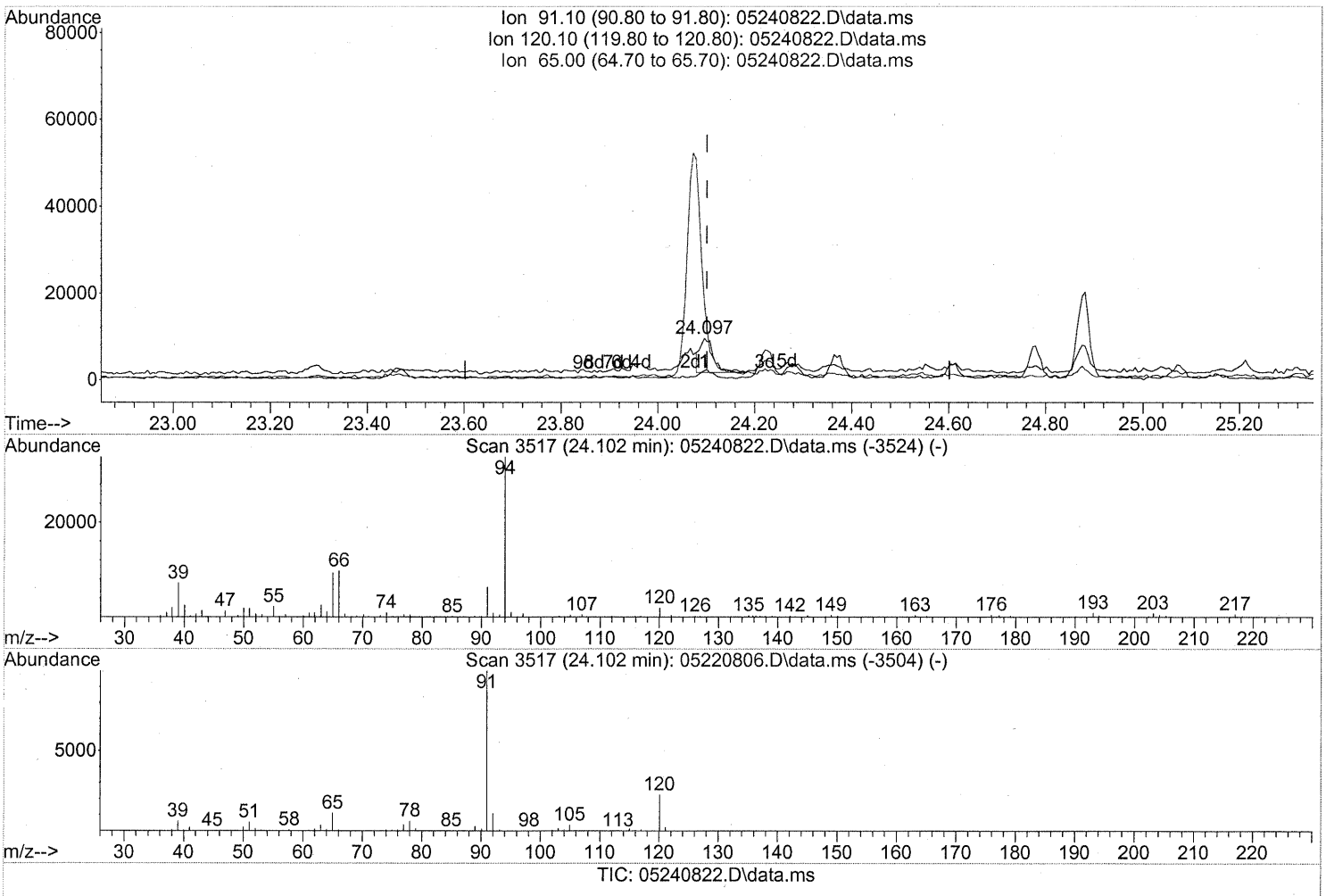
5/30/08

823

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(76) n-Propylbenzene (T)

24.097min (-0.006) 0.08ng

response 15620

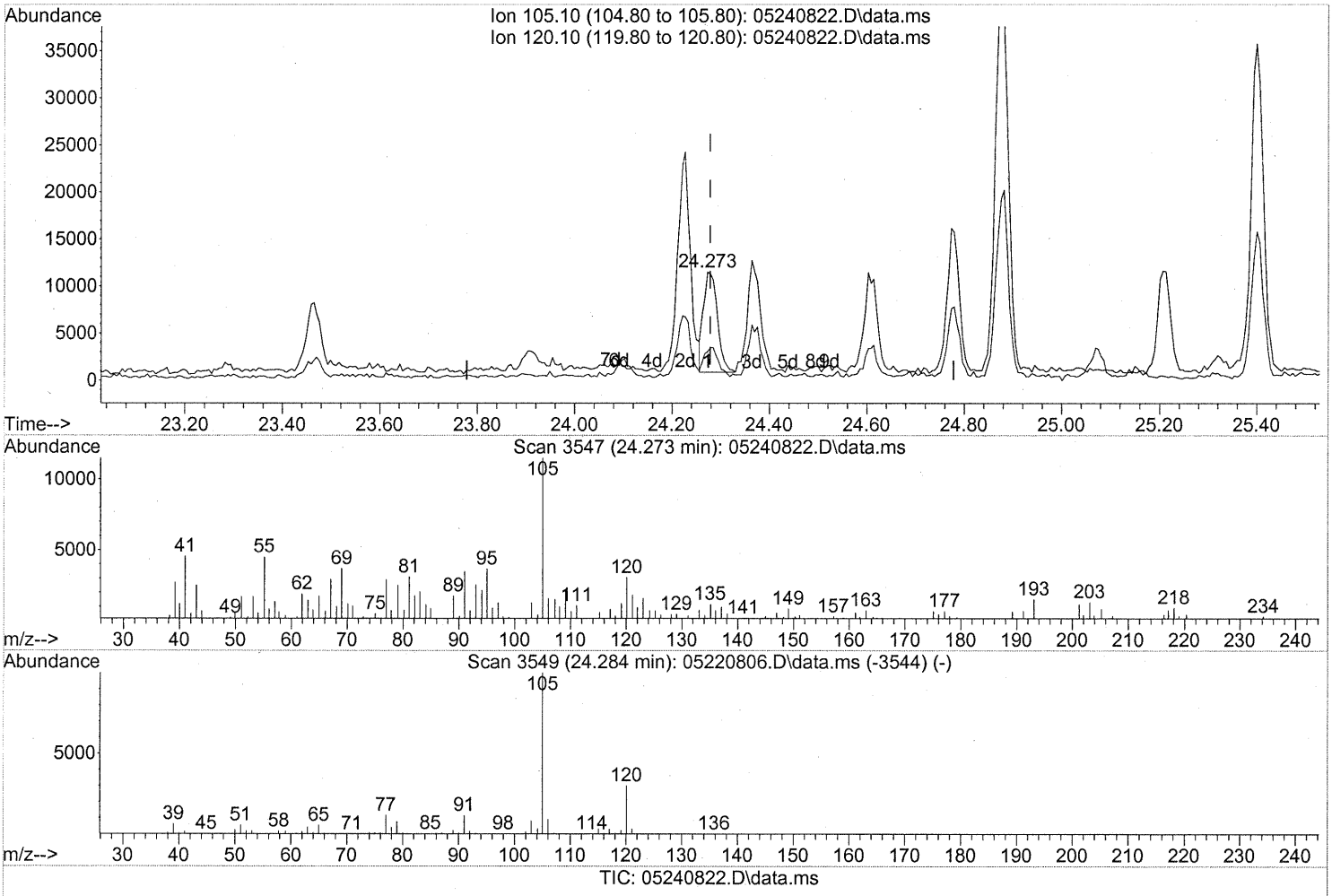
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	25.30
65.00	11.40	0.00
0.00	0.00	0.00

824

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(78) 4-Ethyltoluene (T)

24.273min (-0.006) 0.14ng

response 20890

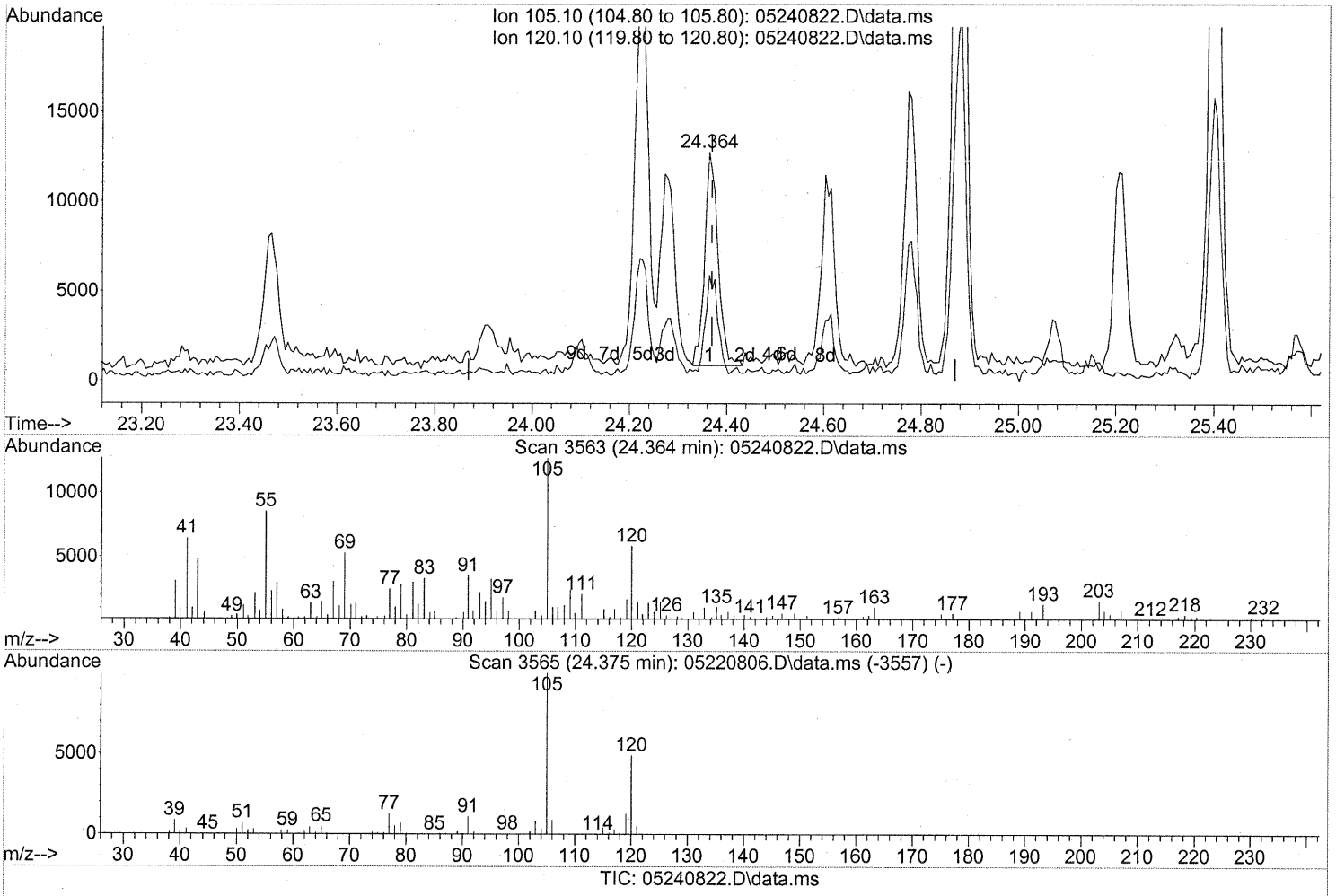
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.90
0.00	0.00	0.00
0.00	0.00	0.00

825

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

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

24.364min (-0.006) 0.17ng

response 22665

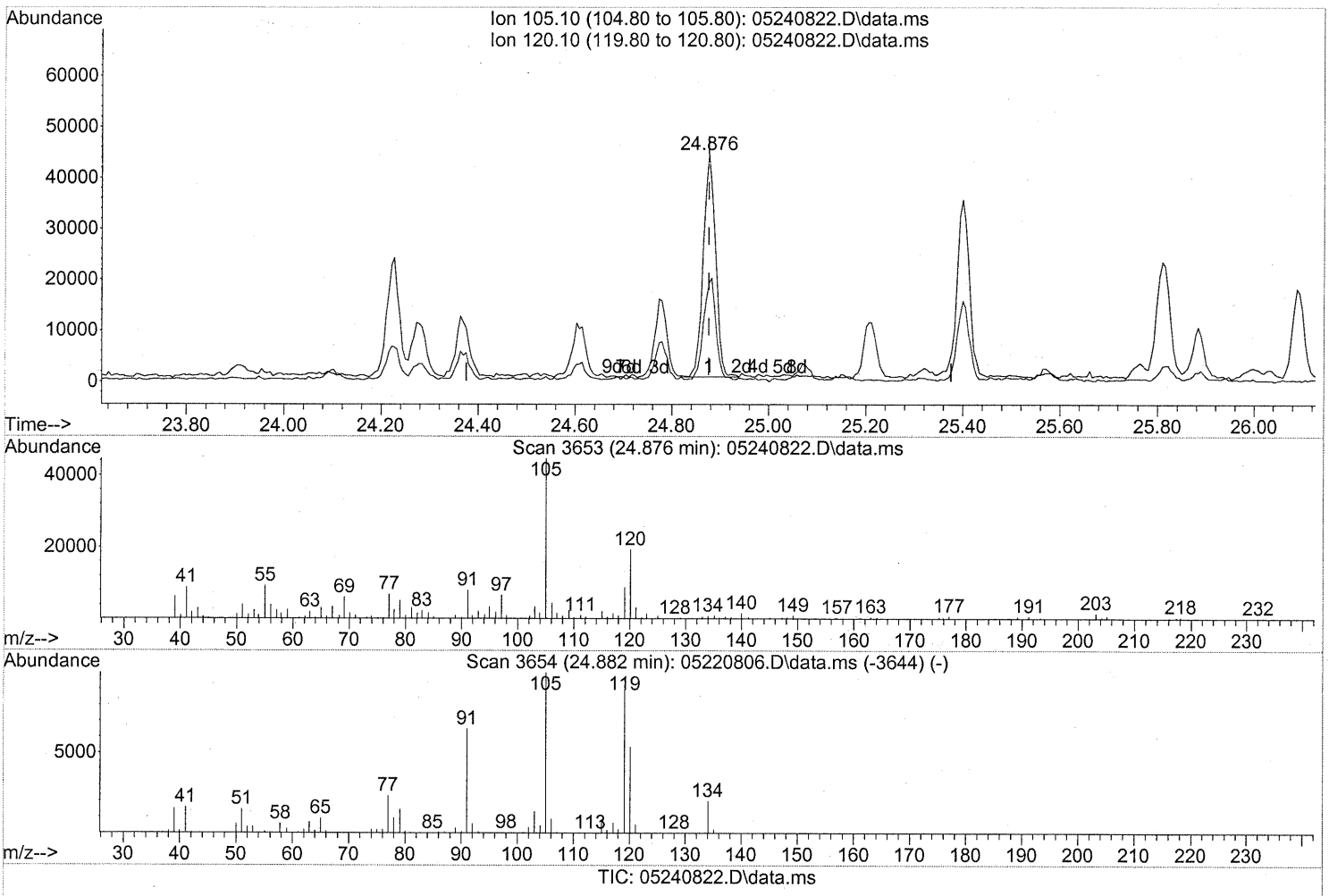
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	43.87
0.00	0.00	0.00
0.00	0.00	0.00

826

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

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

24.876min (0.000) 0.56ng

response 77295

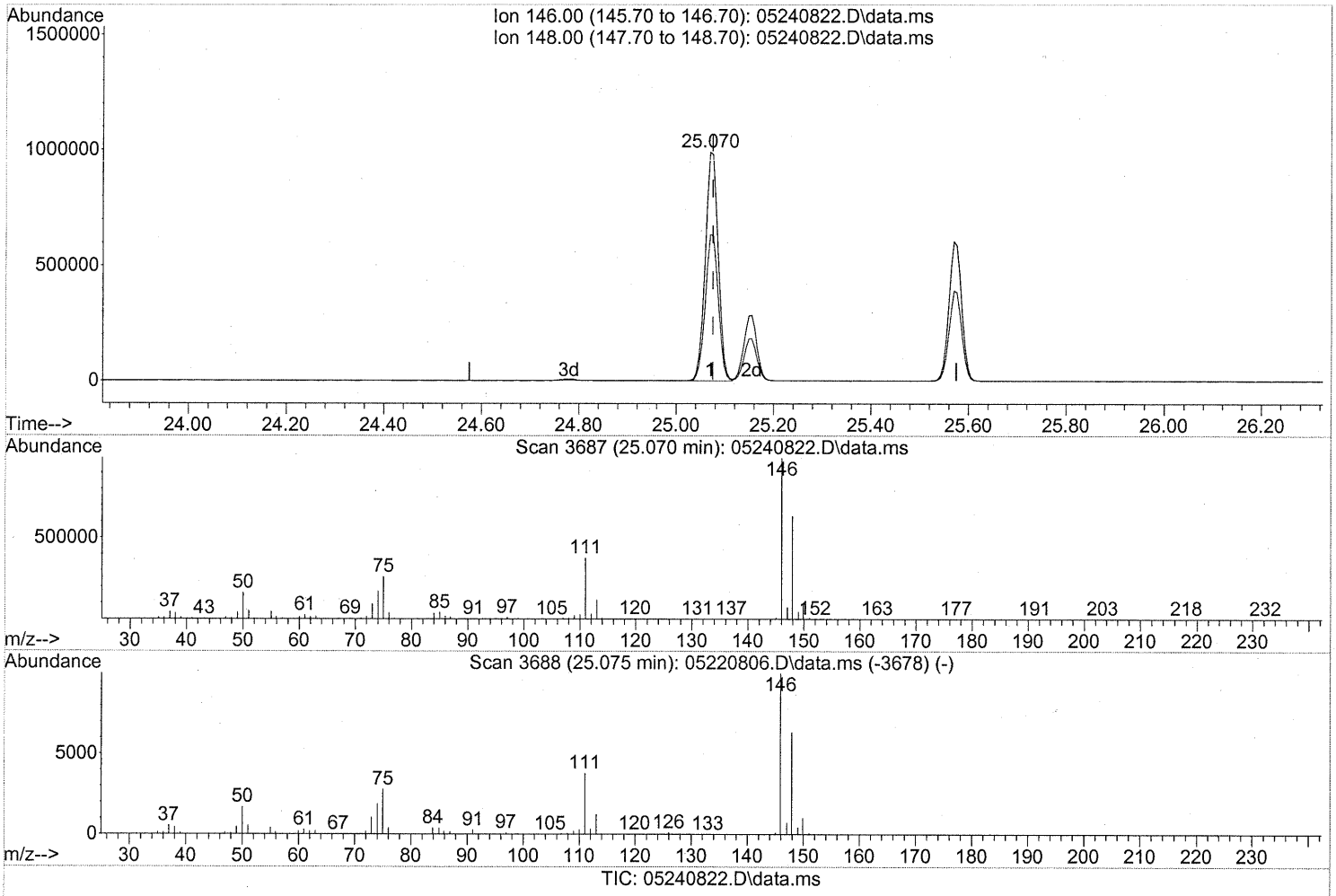
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.18
0.00	0.00	0.00
0.00	0.00	0.00

827

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 21.05ng

response 1817537

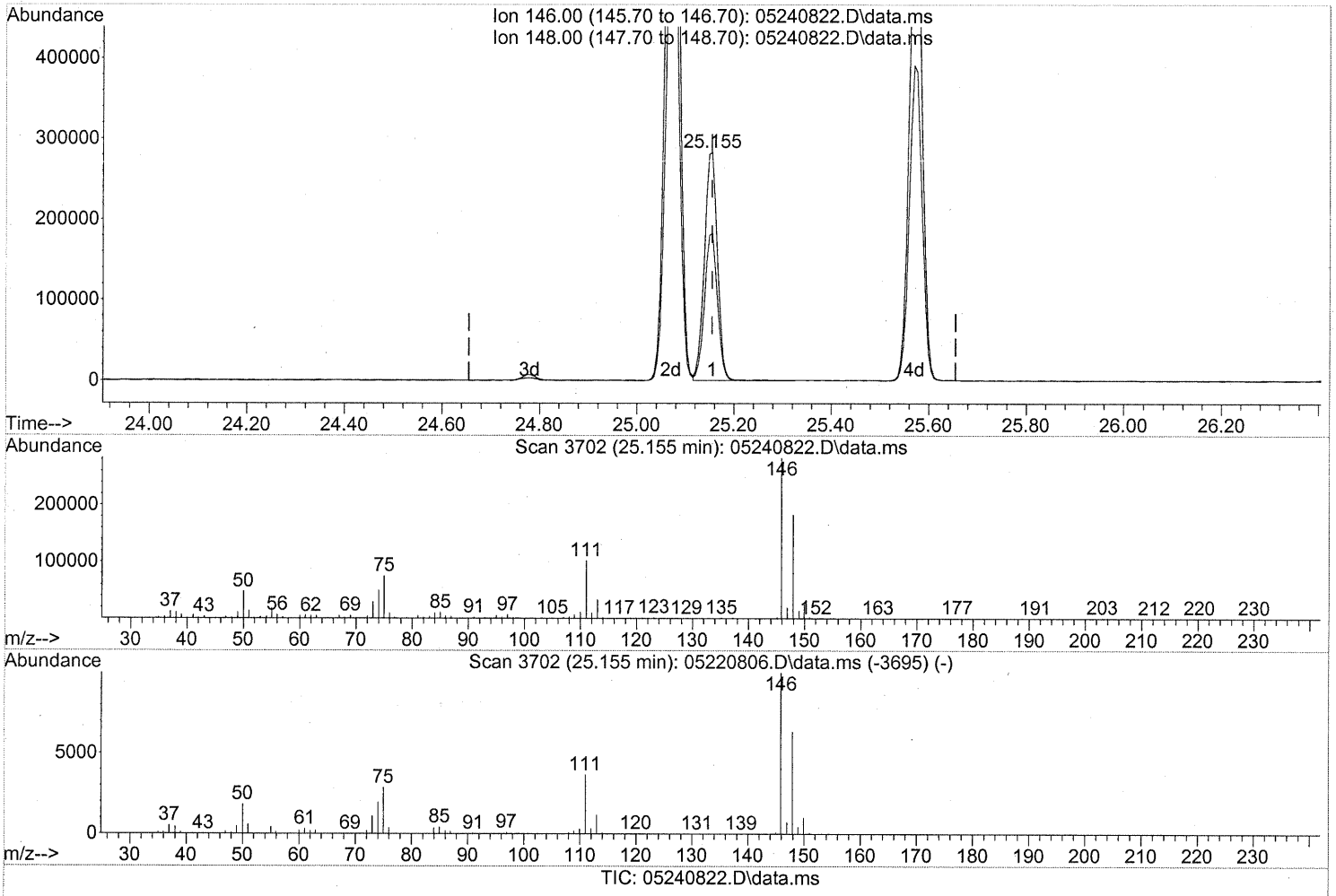
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.15
0.00	0.00	0.00
0.00	0.00	0.00

828

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 6.28ng

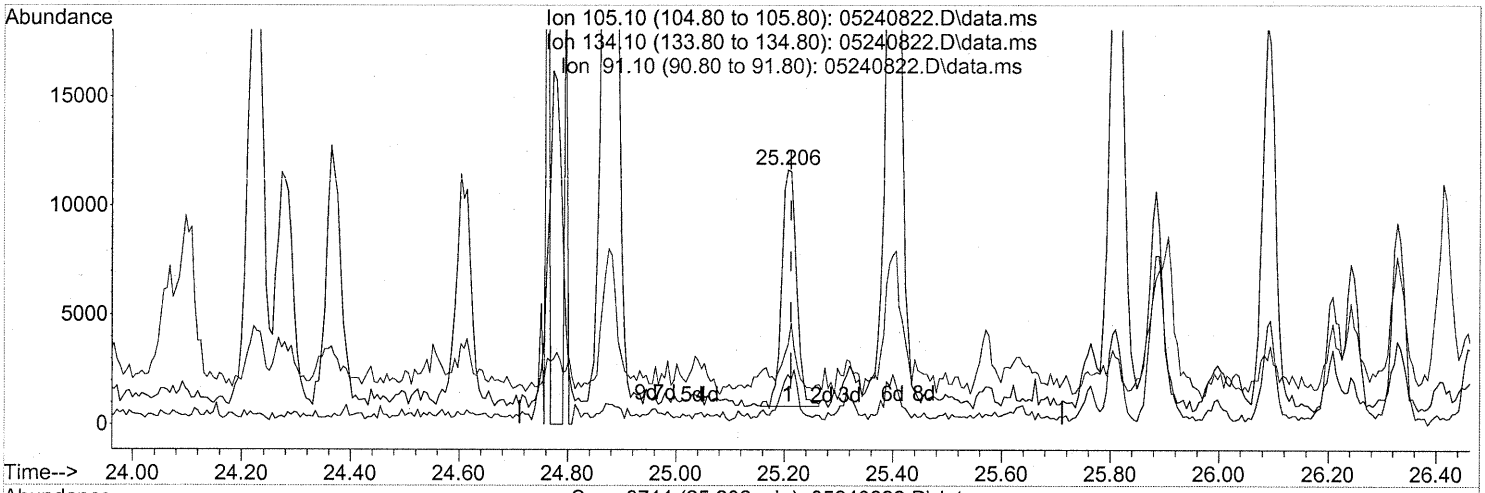
response 525451

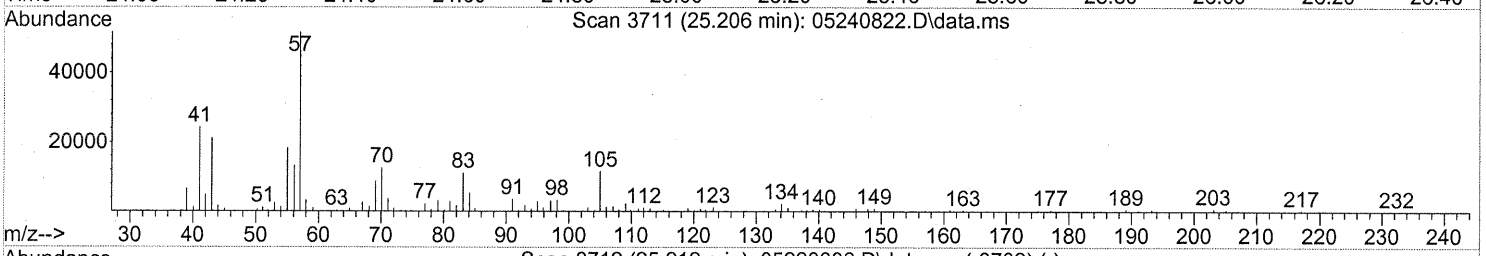
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.71
0.00	0.00	0.00
0.00	0.00	0.00

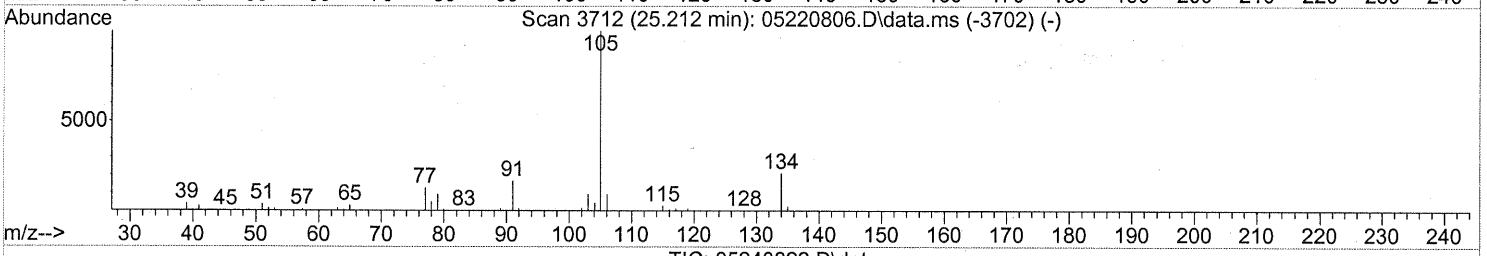
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.12ng

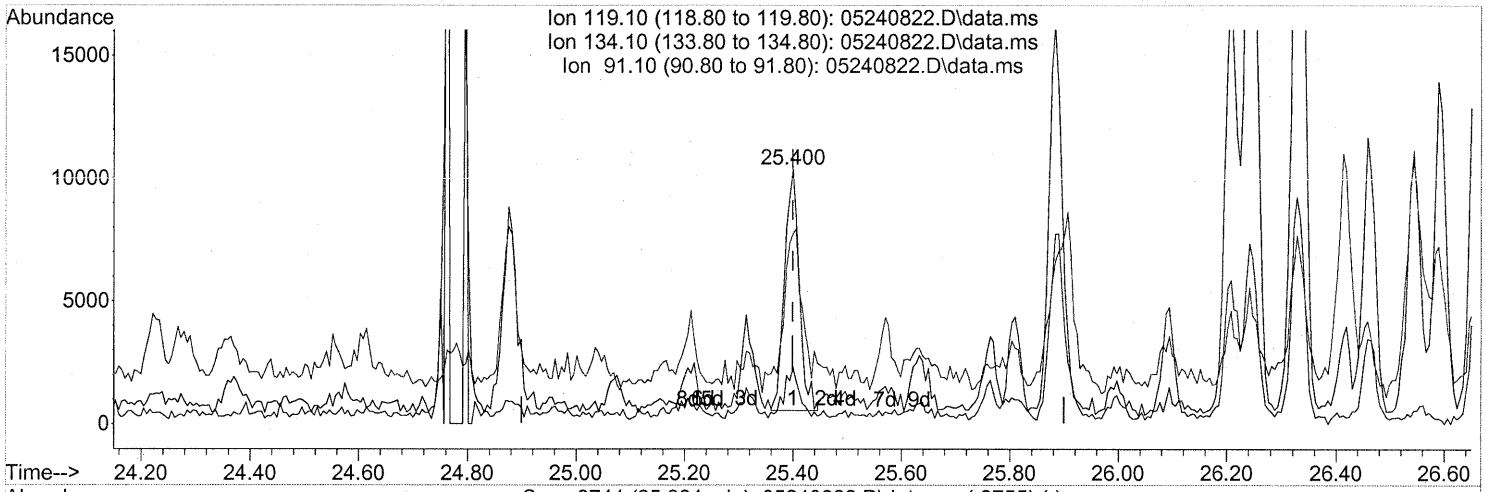
response 20310

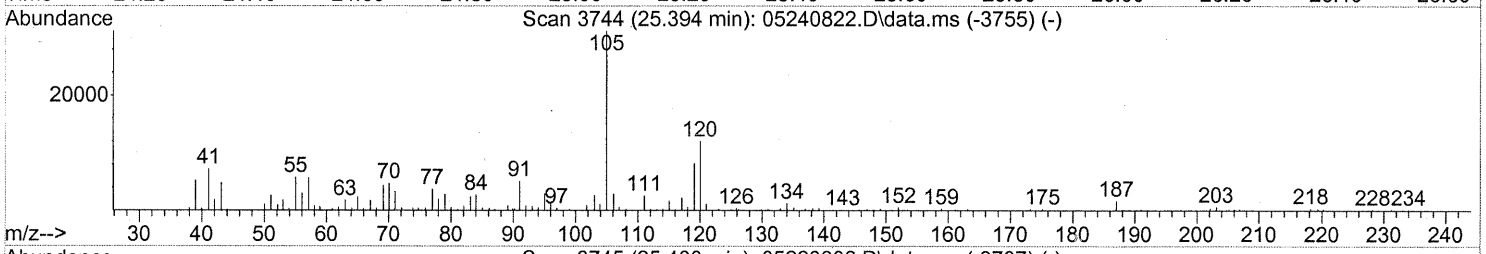
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	23.77
91.10	14.60	20.23
0.00	0.00	0.00

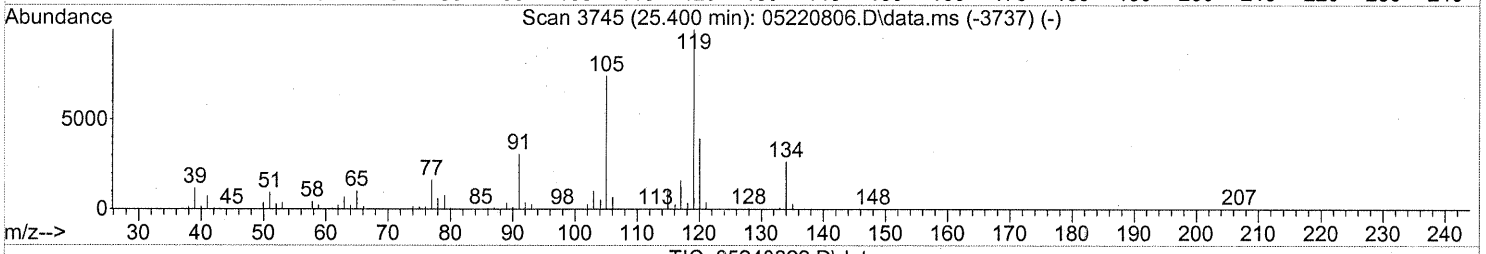
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240822.D\data.ms

(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.13ng

response 18215

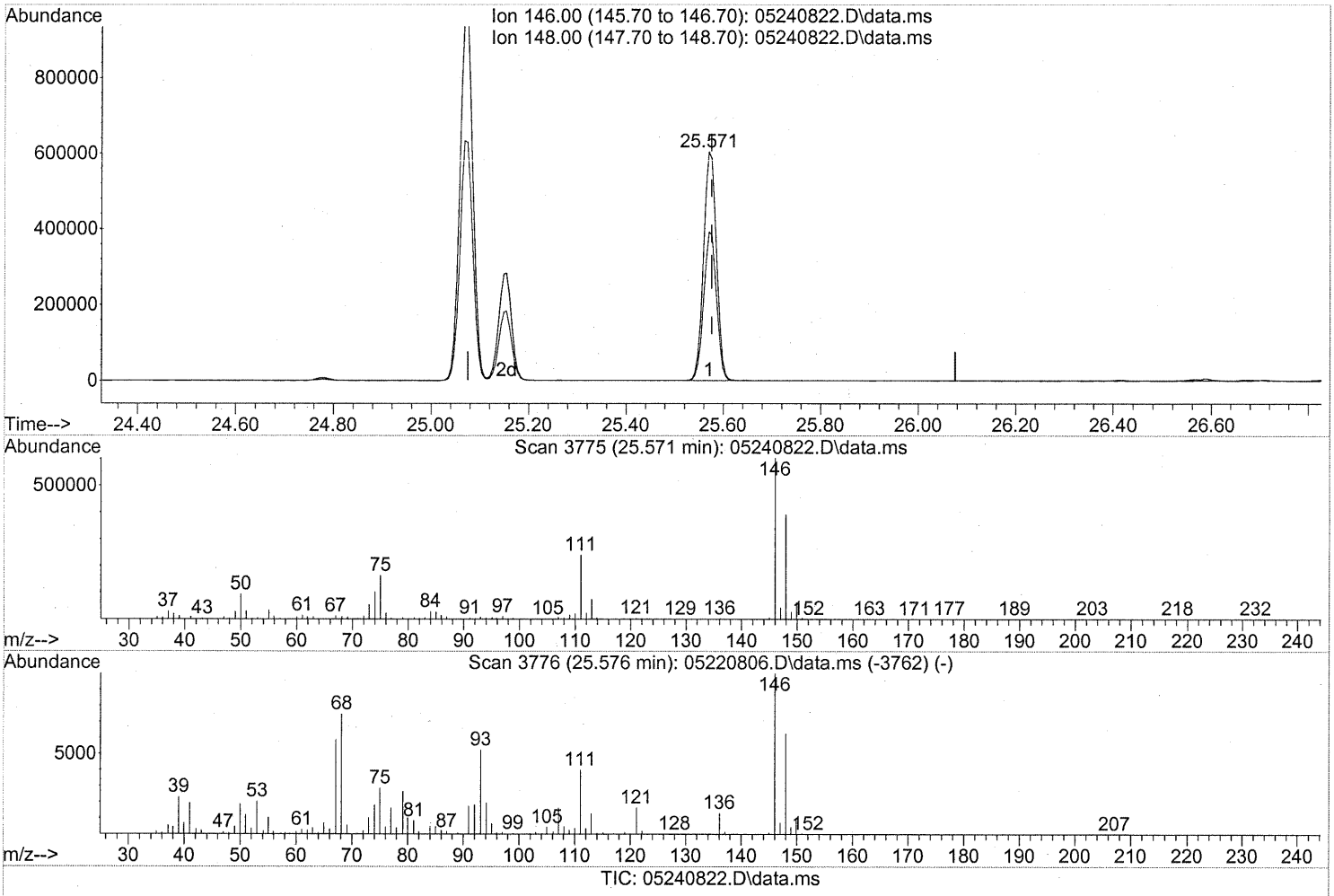
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	22.14
91.10	27.10	85.11#
0.00	0.00	0.00

831

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 13.45ng

response 1101025

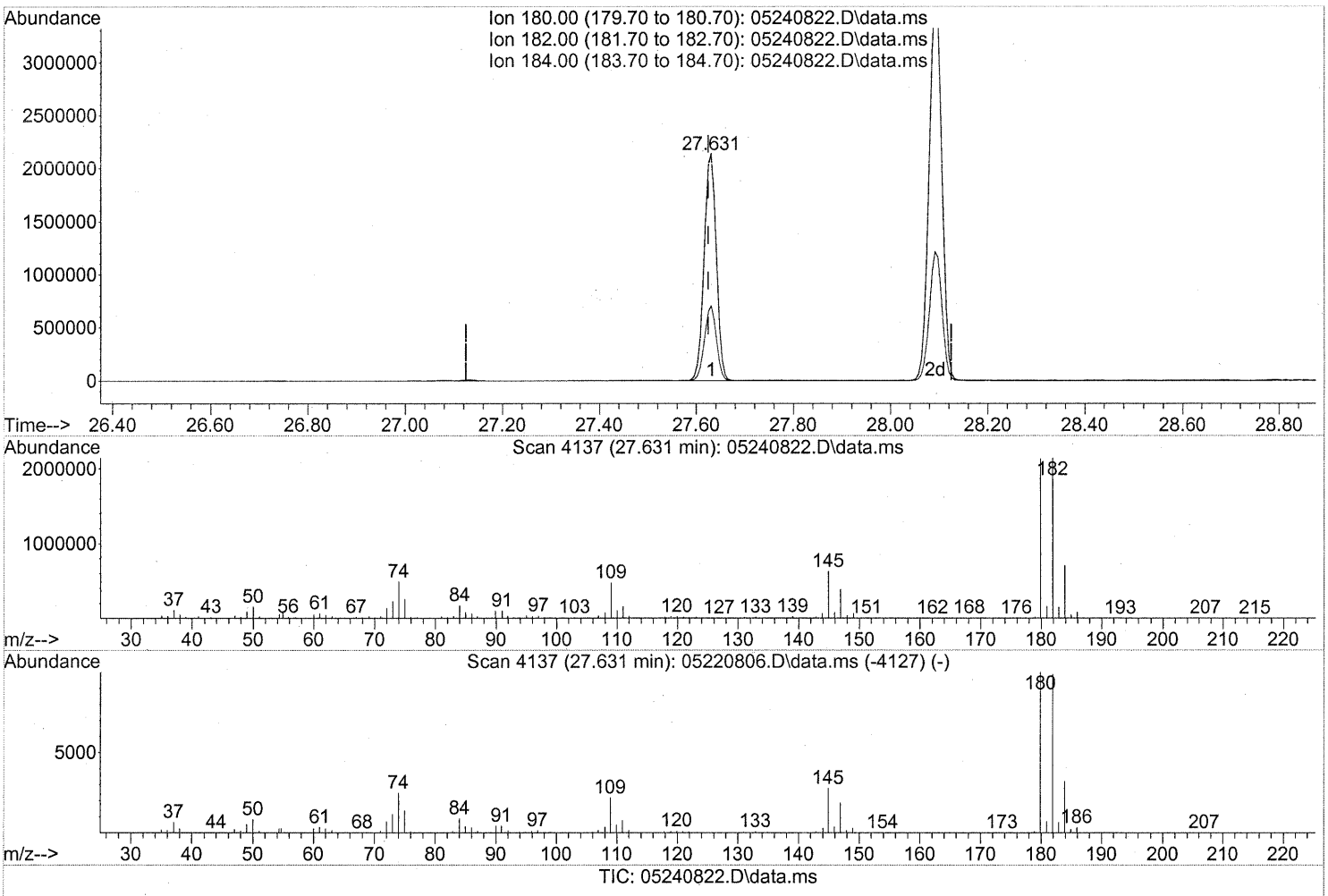
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	64.21
0.00	0.00	0.00
0.00	0.00	0.00

832

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

27.631min (+0.006) 61.78ng

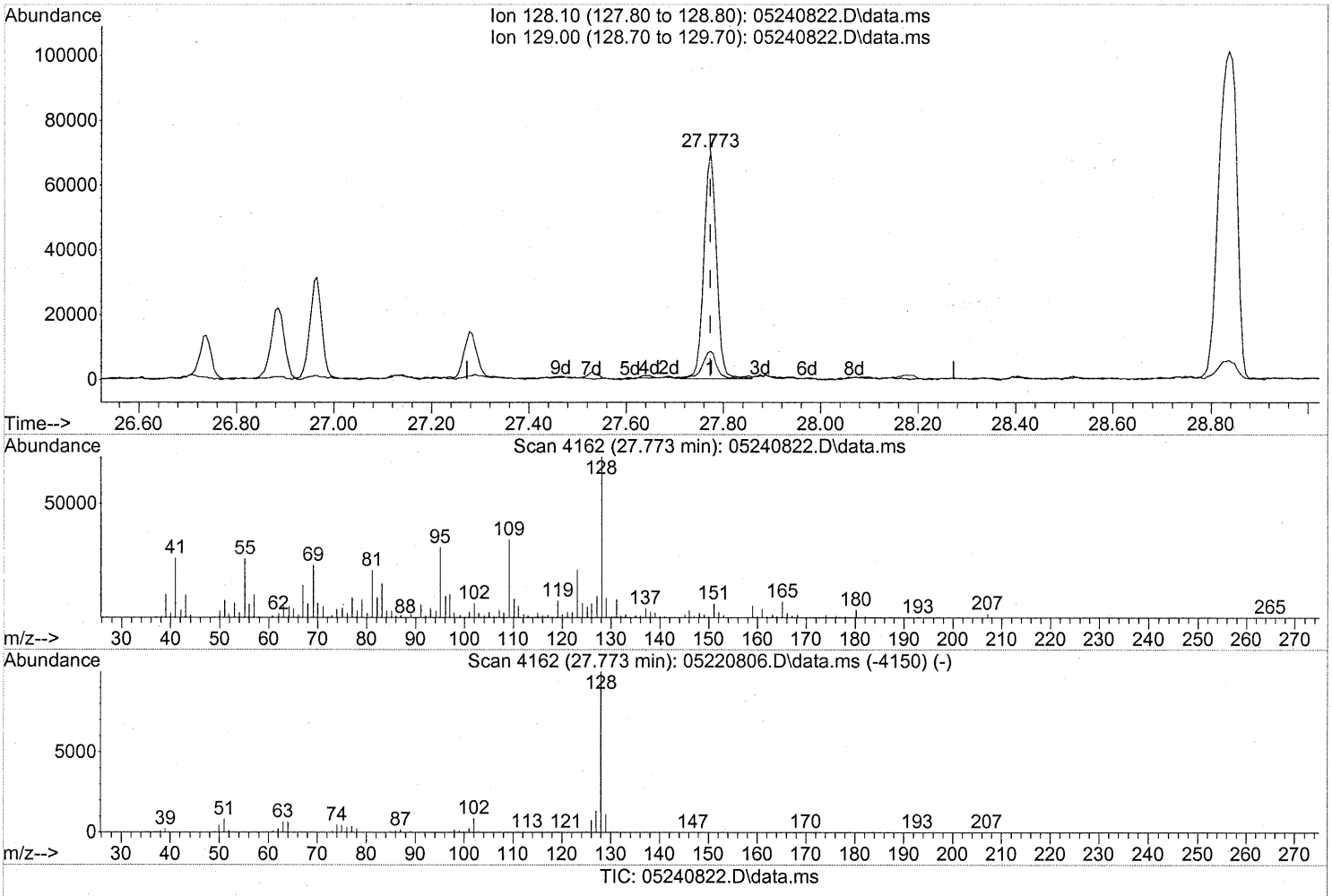
response 3705685

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	99.60
184.00	30.30	32.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(95) Naphthalene (T)

27.773min (0.000) 0.69ng

response 126324

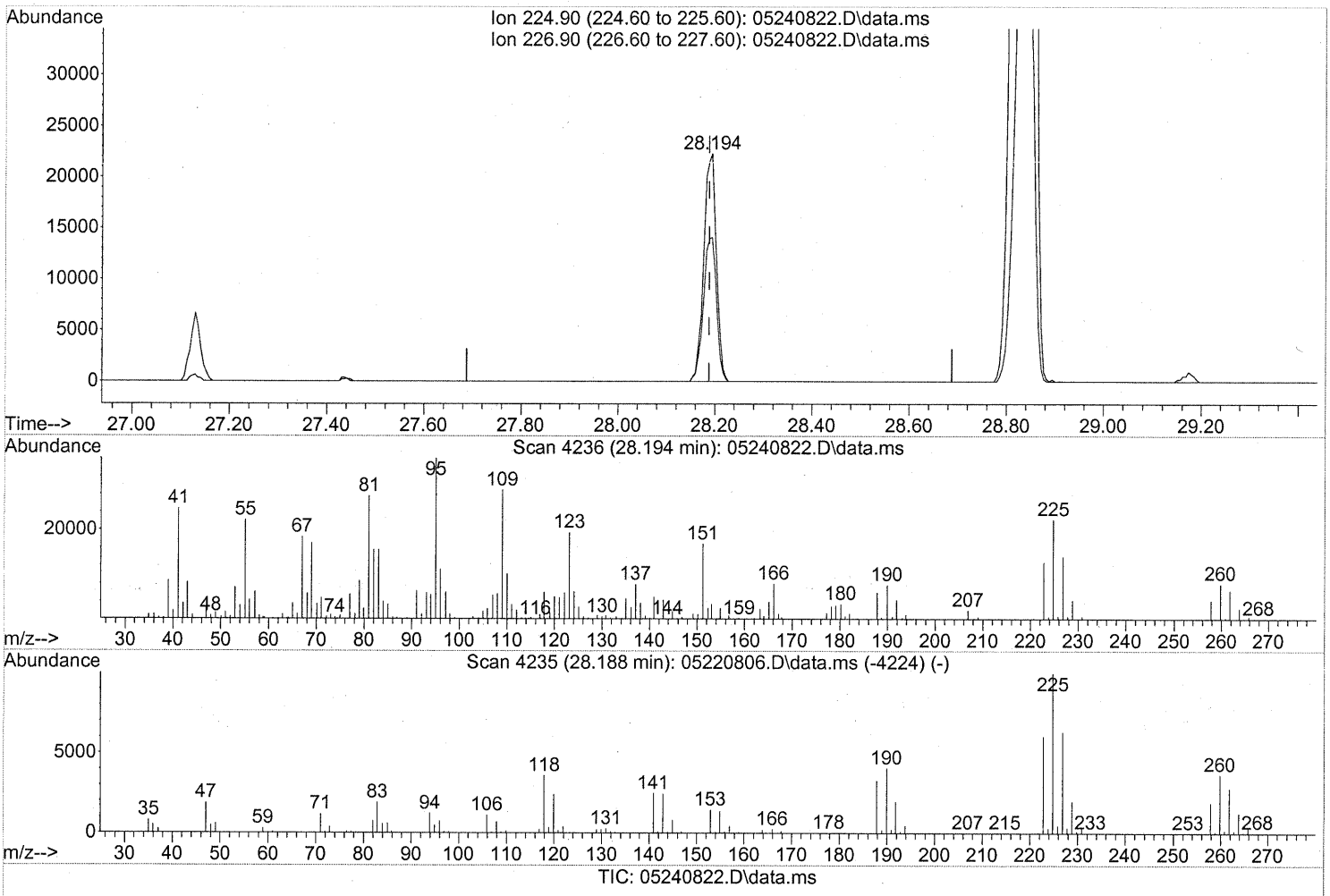
Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.47
0.00	0.00	0.00
0.00	0.00	0.00

834

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 21:30:15 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.194min (+0.006) 1.00ng

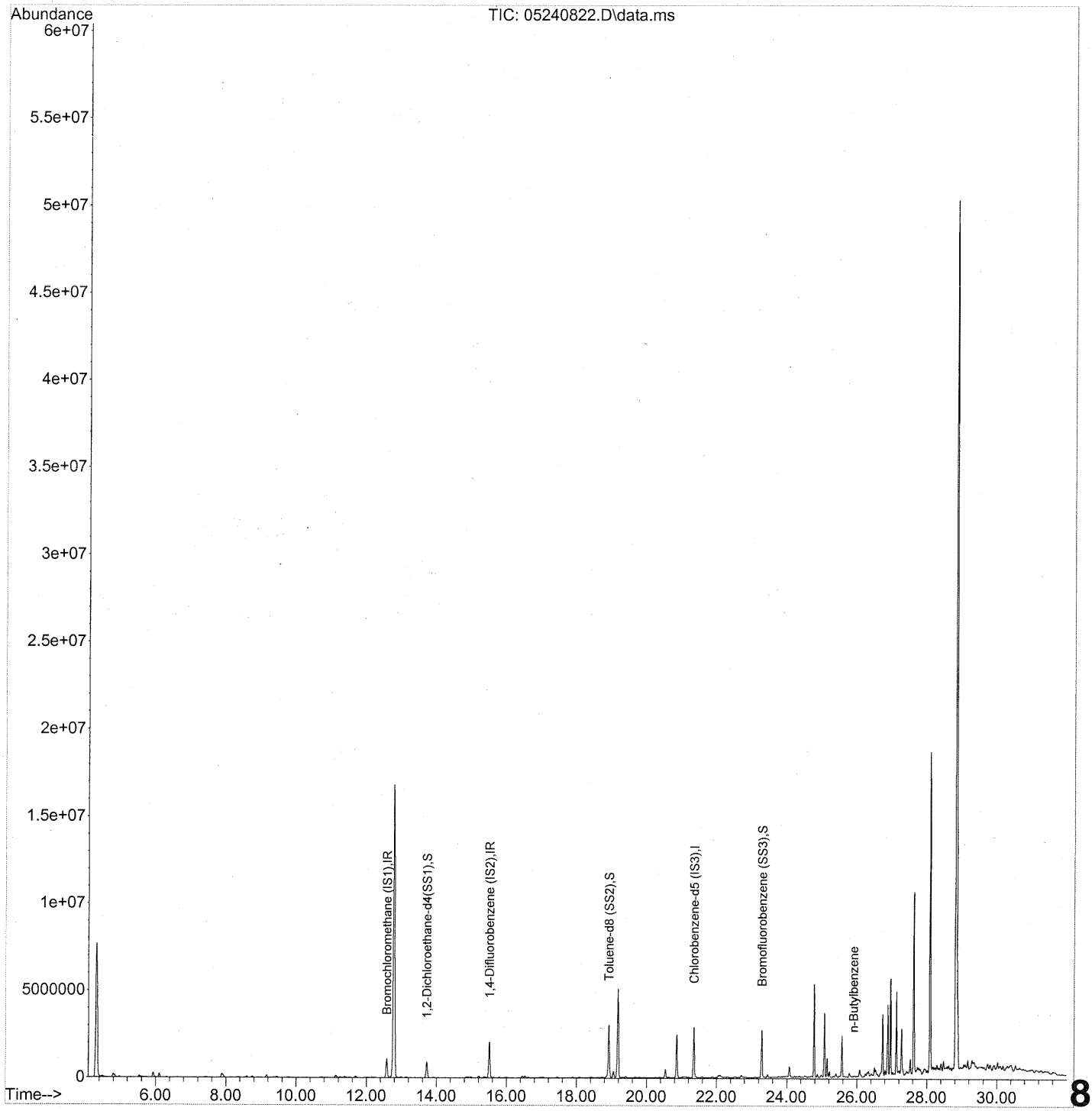
response 39936

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	65.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 20:37:25 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



836

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG959B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 20:37:25 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	575733	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2414649	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1124167	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	894939	22.434	ng	-0.02
Spiked Amount 25.000			Recovery = 89.72%			
5) Toluene-d8 (SS2)	18.93	98	2539617	25.154	ng	-0.01
Spiked Amount 25.000			Recovery = 100.60%			
6) Bromofluorobenzene (SS3)	23.29	174	1051514	25.612	ng	0.00
Spiked Amount 25.000			Recovery = 102.44%			
Target Compounds						Qvalue
7) tert-Butylbenzene	25.16	119	1569	N.D.		
8) n-Butylbenzene	25.91	91	21254	0.146	ng #	64

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

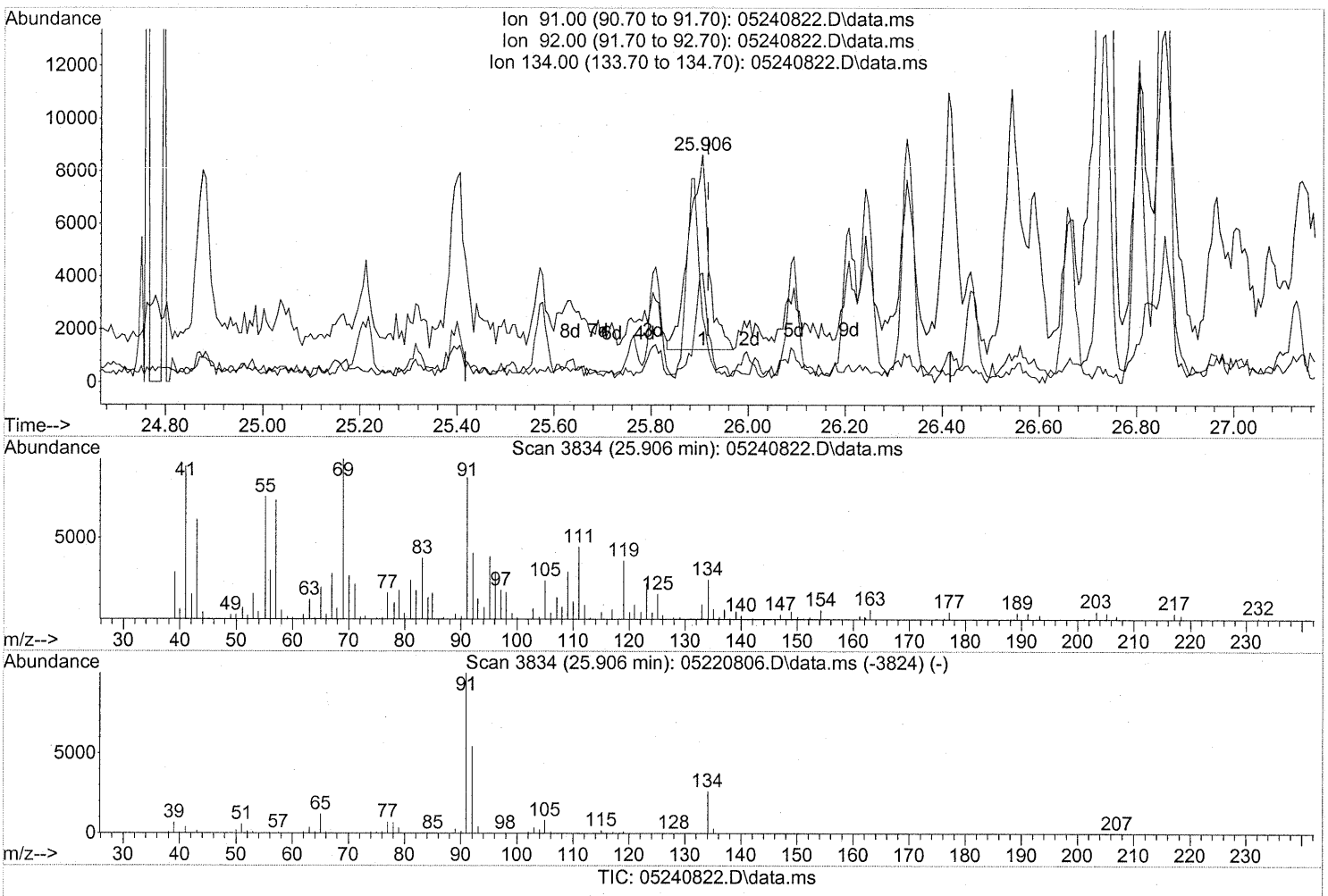
837

DM 5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240822.D
Acq On : 24 May 2008 21:35
Operator : WA
Sample : P0801442-016 (400ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 25 20:37:25 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



TIC: 05240822.D\data.ms

(8) n-Butylbenzene

25.906min (-0.011) 0.15ng

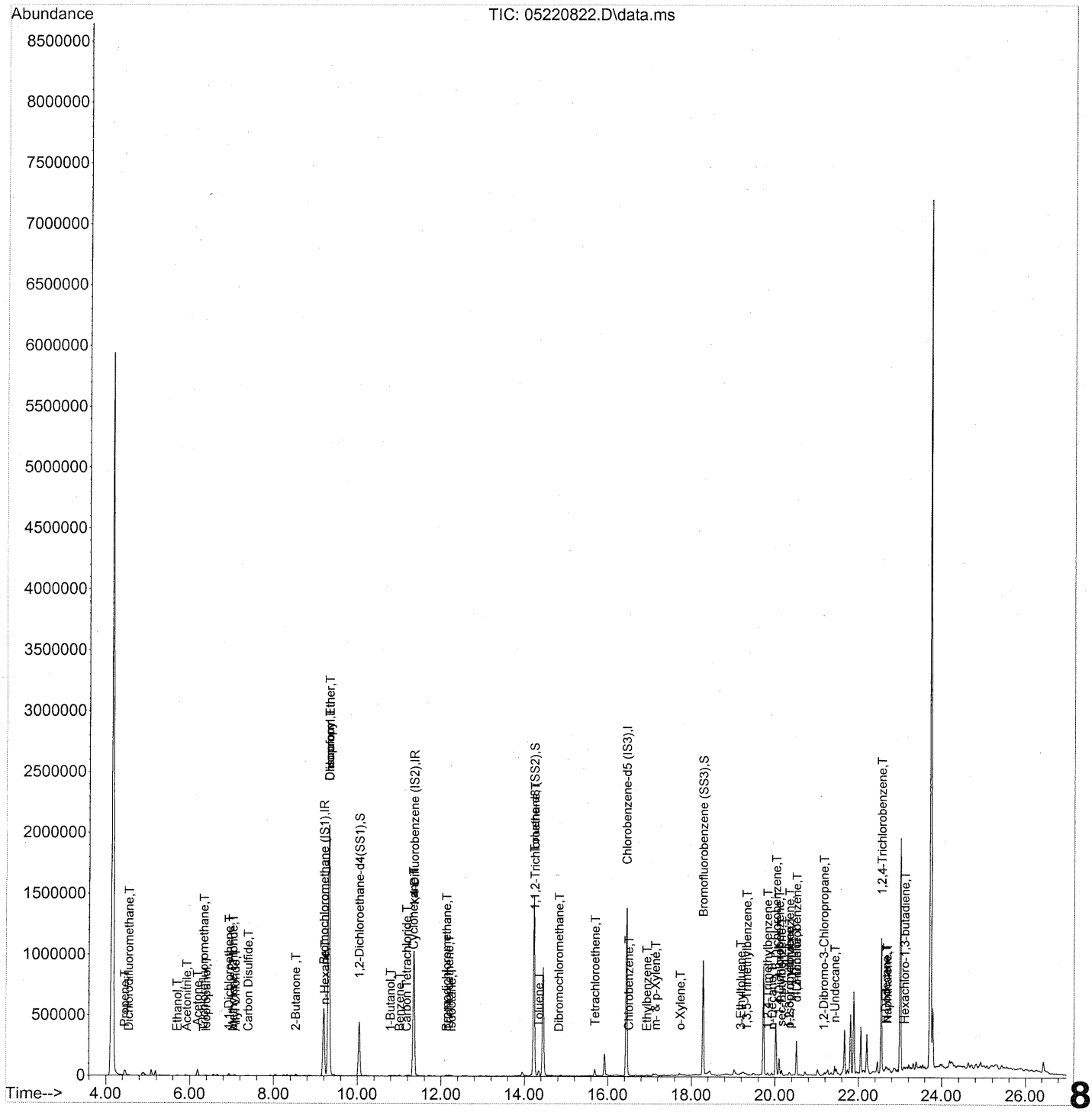
response 21254

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	36.46#
134.00	28.80	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220822.D
Acq On : 22 May 2008 22:41
Operator : WA
Sample : P0801442-016 Dil (100ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 23 06:37:15 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220822.D
Acq On : 22 May 2008 22:41
Operator : WA
Sample : P0801442-016 Dil (100ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 23 06:37:15 2008
Quant Method : J:\MS16\METHODS\R16051208.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	261506	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1145449	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	456223	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	403371	21.874	ng		-0.05
Spiked Amount 25.000			Recovery = 87.48%				
57) Toluene-d8 (SS2)	14.23	98	1168122	26.004	ng		-0.02
Spiked Amount 25.000			Recovery = 104.00%				
73) Bromofluorobenzene (SS3)	18.28	174	327228	27.990	ng		-0.01
Spiked Amount 25.000			Recovery = 111.96%				
Target Compounds							Qvalue
2) Propene	4.45	42	15934	0.609	ng		87
3) Dichlorodifluoromethane	4.55	85	3829	0.124	ng	#	93
4) Chloromethane	4.74	50	1481	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.09	54	635	N.D.			
8) Bromomethane	5.43	94	96	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	5.70	45	4006	0.223	ng		95
11) Acetonitrile	5.93	41	5048	0.108	ng	#	65
12) Acrolein	6.07	56	374	N.D.			
13) Acetone	6.19	58	16873	0.977	ng		91
14) Trichlorofluoromethane	6.33	101	1629	0.064	ng		78
15) Isopropanol	6.39	45	8404	0.150	ng		88
16) Acrylonitrile	6.61	53	95	N.D.			
17) 1,1-Dichloroethene	6.93	96	6171	0.493	ng	#	75
18) tert-Butanol	6.97	59	2210	N.D.			
19) Methylene Chloride	7.03	84	1833	0.134	ng	#	21
20) Allyl Chloride	7.08	41	2543	0.089	ng	#	45
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	7093	0.138	ng		88
23) trans-1,2-Dichloroethene	8.05	61	192	N.D.			
24) 1,1-Dichloroethane	8.17	63	115	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	2911	0.327	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	226671	20.007	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	3353	0.090	ng	#	65

5/26/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220822.D
Acq On : 22 May 2008 22:41
Operator : WA
Sample : P0801442-016 Dil (100ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 23 06:37:15 2008
Quant Method : J:\MS16\METHODS\R16051208.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	2080034	106.669	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	10.79	56	4874	0.225	ng		91
41) Benzene	11.01	78	7883	0.140	ng		96
42) Carbon Tetrachloride	11.18	117	3838	0.231	ng		93
43) Cyclohexane	11.33	84	2181	0.098	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	7593	0.455	ng		96
47) Trichloroethene	12.19	130	4666	0.302	ng		96
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.26	57	6014	0.064	ng	#	8
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	100633	7.385	ng	#	6
58) Toluene	14.35	91	35193	0.639	ng		96
59) 2-Hexanone	14.58	43	2602	N.D.			
60) Dibromochloromethane	14.83	129	866	0.060	ng	#	67
61) 1,2-Dibromoethane	15.18	107	202	N.D.			
62) Butyl Acetate	15.34	43	297	N.D.			
63) n-Octane	15.47	57	109	N.D.			
64) Tetrachloroethene	15.69	166	19084	1.403	ng		94
65) Chlorobenzene	16.50	112	3525	0.097	ng		91
66) Ethylbenzene	16.94	91	5089	0.081	ng		91
67) m- & p-Xylene	17.14	91	16468	0.400	ng		89
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	824	N.D.			
70) o-Xylene	17.74	91	7540	0.172	ng		93
71) n-Nonane	17.97	43	1225	N.D.			
72) 1,1,2,2-Tetrachloroethane	17.73	83	208	N.D.			
74) Cumene	18.45	105	2509	N.D.			
75) alpha-Pinene	18.94	93	1423	N.D.			
76) n-Propylbenzene	19.06	91	2008	N.D.			
77) 3-Ethyltoluene	19.18	105	5221	0.079	ng		73
78) 4-Ethyltoluene	19.24	105	2864	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	4864	0.091	ng		93

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220822.D
Acq On : 22 May 2008 22:41
Operator : WA
Sample : P0801442-016 Dil (100ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 23 06:37:15 2008
Quant Method : J:\MS16\METHODS\R16051208.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

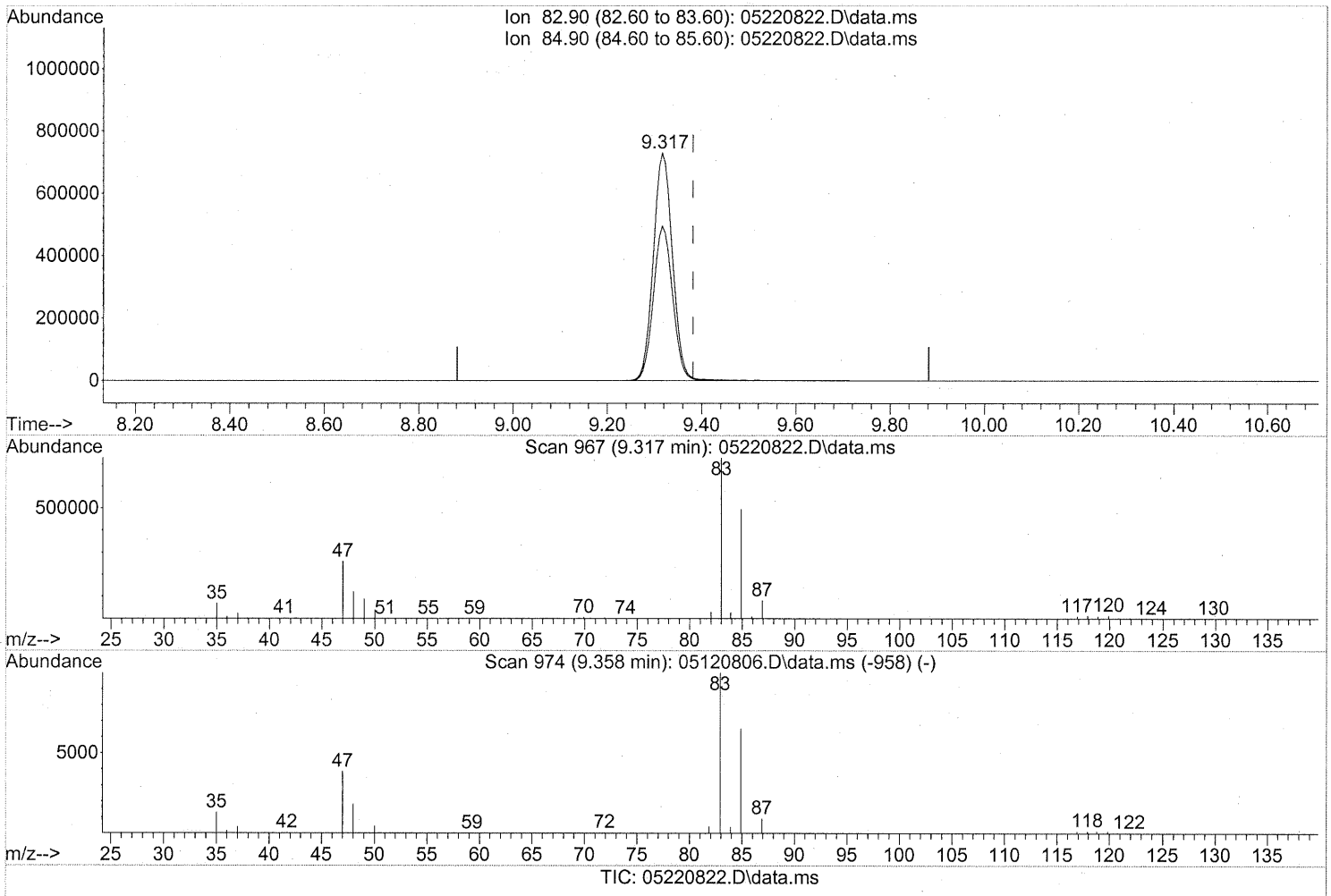
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	652	N.D.			
81) 2-Ethyltoluene	19.56	105	2857	N.D.			
82) 1,2,4-Trimethylbenzene	19.82	105	12948	0.236	ng		88
83) n-Decane	19.93	57	6145	0.141	ng		84
84) Benzyl Chloride	20.01	91	440	N.D.			
85) 1,3-Dichlorobenzene	20.02	146	215199	6.744	ng		99
86) 1,4-Dichlorobenzene	20.10	146	62117	2.038	ng		100
87) sec-Butylbenzene	20.15	105	5715	0.080	ng		93
88) p-Isopropyltoluene	20.34	119	3609	0.059	ng	#	62
89) 1,2,3-Trimethylbenzene	20.34	105	8688	0.162	ng		94
90) 1,2-Dichlorobenzene	20.52	146	130924	4.424	ng		99
91) d-Limonene	20.52	68	2250	0.113	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.17	157	485	0.052	ng	#	1
93) n-Undecane	21.43	57	28538	0.623	ng		81
94) 1,2,4-Trichlorobenzene	22.55	184	103393	20.085	ng	#	86
95) Naphthalene	22.69	128	16185	0.208	ng		94
96) n-Dodecane	22.66	57	18538	0.415	ng		81
97) Hexachloro-1,3-butadiene	23.11	225	2761	0.359	ng		90

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220822.D
Acq On : 22 May 2008 22:41
Operator : WA
Sample : P0801442-016 Dil (100ml)
Misc : ENSR SG95B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 23 06:37:15 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220822.D\data.ms

(32) Chloroform (T)

9.317min (-0.066) 106.67ng

response 2080034

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.87
0.00	0.00	0.00
0.00	0.00	0.00

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG89B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00634

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 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)	ND	160	16	ND	32	3.2	
74-87-3	Chloromethane	ND	32	16	ND	15	7.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	32	16	ND	12	6.2	
74-83-9	Bromomethane	ND	32	16	ND	8.1	4.1	
75-00-3	Chloroethane	ND	32	16	ND	12	6.0	
64-17-5	Ethanol	ND	1,600	16	ND	840	8.4	
67-64-1	**Acetone**	**44**	1,600	23	**19**	670	9.7	**J, B**
75-69-4	Trichlorofluoromethane	ND	32	16	ND	5.6	2.8	
107-13-1	Acrylonitrile	ND	160	22	ND	73	10	
75-35-4	**1,1-Dichloroethene**	**44**	32	16	**11**	8.0	4.0	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	23	ND	52	7.7	
75-09-2	**Methylene Chloride**	**27**	160	16	**7.8**	45	4.5	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	32	16	ND	10	5.0	
76-13-1	Trichlorotrifluoroethane	ND	32	18	ND	4.1	2.3	
75-15-0	Carbon Disulfide	ND	160	38	ND	51	12	
156-60-5	trans-1,2-Dichloroethene	ND	32	16	ND	8.0	4.0	
75-34-3	1,1-Dichloroethane	ND	32	16	ND	7.8	3.9	
1634-04-4	Methyl tert-Butyl Ether	ND	32	16	ND	8.8	4.4	
108-05-4	Vinyl Acetate	ND	1,600	51	ND	450	14	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	54	5.4	
156-59-2	cis-1,2-Dichloroethene	ND	32	16	ND	8.0	4.0	
108-20-3	Diisopropyl Ether	ND	160	19	ND	38	4.5	
67-66-3	**Chloroform**	**130,000**	32	19	**28,000**	6.5	3.8	

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.
B = Analyte was found in the method blank.

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG89B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00634

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 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	160	16	ND	38	3.9	
107-06-2	1,2-Dichloroethane	ND	32	16	ND	7.8	3.9	
71-55-6	1,1,1-Trichloroethane	ND	32	16	ND	5.8	2.9	
71-43-2	Benzene	ND	32	16	ND	9.9	4.9	
56-23-5	**Carbon Tetrachloride**	**40**	32	16	**6.3**	5.0	2.5	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	38	3.8	
78-87-5	1,2-Dichloropropane	ND	32	16	ND	6.8	3.4	
75-27-4	**Bromodichloromethane**	**200**	32	16	**30**	4.7	2.4	
79-01-6	**Trichloroethene**	**28**	32	16	**5.2**	5.9	2.9	**J**
123-91-1	1,4-Dioxane	ND	160	19	ND	44	5.4	
80-62-6	Methyl Methacrylate	ND	160	24	ND	39	5.8	
142-82-5	n-Heptane	ND	160	20	ND	39	4.9	
10061-01-5	cis-1,3-Dichloropropene	ND	160	16	ND	35	3.6	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	39	4.3	
10061-02-6	trans-1,3-Dichloropropene	ND	160	20	ND	35	4.4	
79-00-5	1,1,2-Trichloroethane	ND	32	16	ND	5.8	2.9	
108-88-3	Toluene	ND	160	16	ND	42	4.2	
591-78-6	2-Hexanone	ND	160	24	ND	39	5.9	
124-48-1	**Dibromochloromethane**	**160**	32	21	**19**	3.7	2.5	
106-93-4	1,2-Dibromoethane	ND	32	17	ND	4.1	2.2	
111-65-9	n-Octane	ND	160	16	ND	34	3.4	
127-18-4	**Tetrachloroethene**	**95**	32	16	**14**	4.7	2.3	
108-90-7	Chlorobenzene	ND	32	16	ND	6.9	3.5	

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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG89B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00634

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 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	ND	160	20	ND	36	4.5	
179601-23-1	m,p-Xylenes	ND	160	41	ND	36	9.5	
75-25-2	**Bromoform**	**140**	160	24	**14**	15	2.3	**J**
100-42-5	Styrene	ND	160	24	ND	37	5.6	
95-47-6	**o-Xylene**	**37**	160	20	**8.6**	36	4.6	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	32	20	ND	4.6	2.9	
98-82-8	Cumene	ND	160	18	ND	32	3.6	
103-65-1	n-Propylbenzene	ND	160	16	ND	32	3.3	
622-96-8	4-Ethyltoluene	ND	160	18	ND	32	3.7	
108-67-8	1,3,5-Trimethylbenzene	ND	160	19	ND	32	3.9	
98-83-9	alpha-Methylstyrene	ND	160	23	ND	33	4.8	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	32	4.4	
100-44-7	Benzyl Chloride	ND	32	27	ND	6.1	5.3	
541-73-1	1,3-Dichlorobenzene	ND	32	20	ND	5.3	3.3	
106-46-7	1,4-Dichlorobenzene	ND	32	18	ND	5.3	2.9	
135-98-8	sec-Butylbenzene	ND	160	18	ND	29	3.3	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	29	3.7	
95-50-1	1,2-Dichlorobenzene	ND	32	21	ND	5.3	3.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	24	ND	16	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	32	24	ND	4.3	3.2	
91-20-3	Naphthalene	ND	63	23	ND	12	4.5	
87-68-3	Hexachlorobutadiene	ND	32	28	ND	3.0	2.7	
98-06-6	tert-Butylbenzene	ND	63	16	ND	12	2.9	
104-51-8	n-Butylbenzene	ND	63	16	ND	12	2.9	

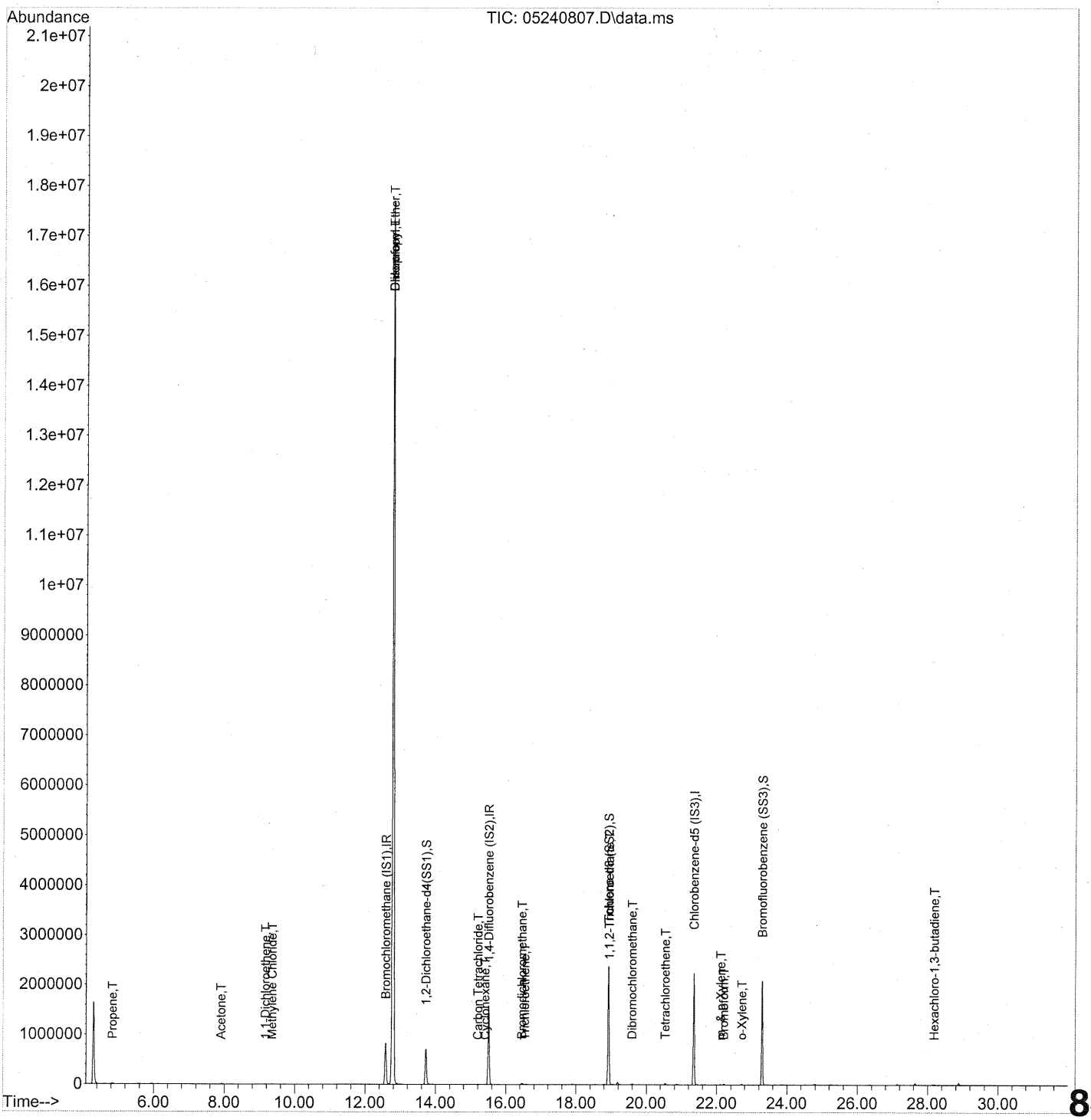
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated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

Verified By: RG Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



847

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	432946	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1838073	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	864159	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	13.72	65	717340	23.912	ng	0.00
Spiked Amount 25.000			Recovery =	95.64%		
57) Toluene-d8 (SS2)	18.93	98	1947988	25.100	ng	0.00
Spiked Amount 25.000			Recovery =	100.40%		
73) Bromofluorobenzene (SS3)	23.29	174	769167	24.372	ng	0.00
Spiked Amount 25.000			Recovery =	97.48%		
Target Compounds						Qvalue
2) Propene	4.84	42	4992	0.146	ng	# 69
3) Dichlorodifluoromethane	4.99	85	721	N.D. ✓		
4) Chloromethane	5.34	50	54	N.D. ✓		
5) Freon 114	0.00	135	0	N.D. ✓		
6) Vinyl Chloride	0.00	62	0	N.D. ✓		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D. ✓		
9) Chloroethane	0.00	64	0	N.D. ✓		
10) Ethanol	7.13	45	84	N.D. ✓		
11) Acetonitrile	7.47	41	418	N.D.		
12) Acrolein	7.69	56	70	N.D.		
13) Acetone	7.91	58	3271m	0.140	ng	
14) Trichlorofluoromethane	8.16	101	194	N.D. ✓		
15) Isopropanol	8.41	45	52	N.D. NOT		
16) Acrylonitrile	0.00	53	0	N.D. ✓		
17) 1,1-Dichloroethene	9.17	96	3326	0.140	ng	# 74
18) tert-Butanol	9.35	59	393	N.D. ✓		
19) Methylene Chloride	9.36	84	2227	0.086	ng	88
20) Allyl Chloride	9.48	41	121	N.D. ✓		
21) Trichlorotrifluoroethane	0.00	151	0	N.D. ✓		
22) Carbon Disulfide	9.77	76	1859	N.D. ✓		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
24) 1,1-Dichloroethane	0.00	63	0	N.D. ✓		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. ✓		
26) Vinyl Acetate	0.00	86	0	N.D. ✓		
27) 2-Butanone	11.56	72	105	N.D. ✓		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.79	87	2144680	~~102.894 ng~~ NR	#	1
30) Ethyl Acetate	12.74	61	59	N.D.		
31) n-Hexane	12.70	57	638	N.D.		

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5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	18247924	~~462.214 ng~~ sw dil		95
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	56	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	57	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	52	N.D.		
41) Benzene	14.99	78	2379	N.D. ✓		
42) Carbon Tetrachloride	15.21	117	4620	0.125 ng		94
43) Cyclohexane	15.41	84	1944	0.052 ng	#	62
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	54	N.D. ✓		
46) Bromodichloromethane	16.46	83	20692	0.636 ng		100
47) Trichloroethene	16.54	130	2622	0.089 ng		92
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	16.61	57	72	N.D.		
50) Methyl Methacrylate	16.91	100	71	N.D. ✓		
51) n-Heptane	0.00	71	0	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	171255	~~7.201 ng~~ NR	#	7
58) Toluene	19.07	91	4453	N.D. ✓		
59) 2-Hexanone	19.30	43	284	N.D. ✓		
60) Dibromochloromethane	19.59	129	14403	0.505 ng		97
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.34	43	167	N.D.		
63) n-Octane	20.09	57	55	N.D. ✓		
64) Tetrachloroethene	20.55	166	9374	0.300 ng		96
65) Chlorobenzene	21.42	112	594	N.D. ✓		
66) Ethylbenzene	21.89	91	656	N.D. ✓		
67) m- & p-Xylene	22.12	91	6996	~~0.086 ng~~		92
68) Bromoform	22.21	173	9485	0.447 ng		99
69) Styrene	22.72	104	60	N.D. ✓		
70) o-Xylene	22.72	91	10341	0.118 ng		89
71) n-Nonane	22.98	43	320	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.70	83	67	N.D. ✓		
74) Cumene	23.48	105	923	N.D. ✓		
75) alpha-Pinene	24.40	93	73	N.D.		
76) n-Propylbenzene	24.11	91	681	N.D. ✓		
77) 3-Ethyltoluene	24.21	105	682	N.D.		
78) 4-Ethyltoluene	24.28	105	446	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.38	105	1320	N.D. ✓		

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JDA 5/27/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

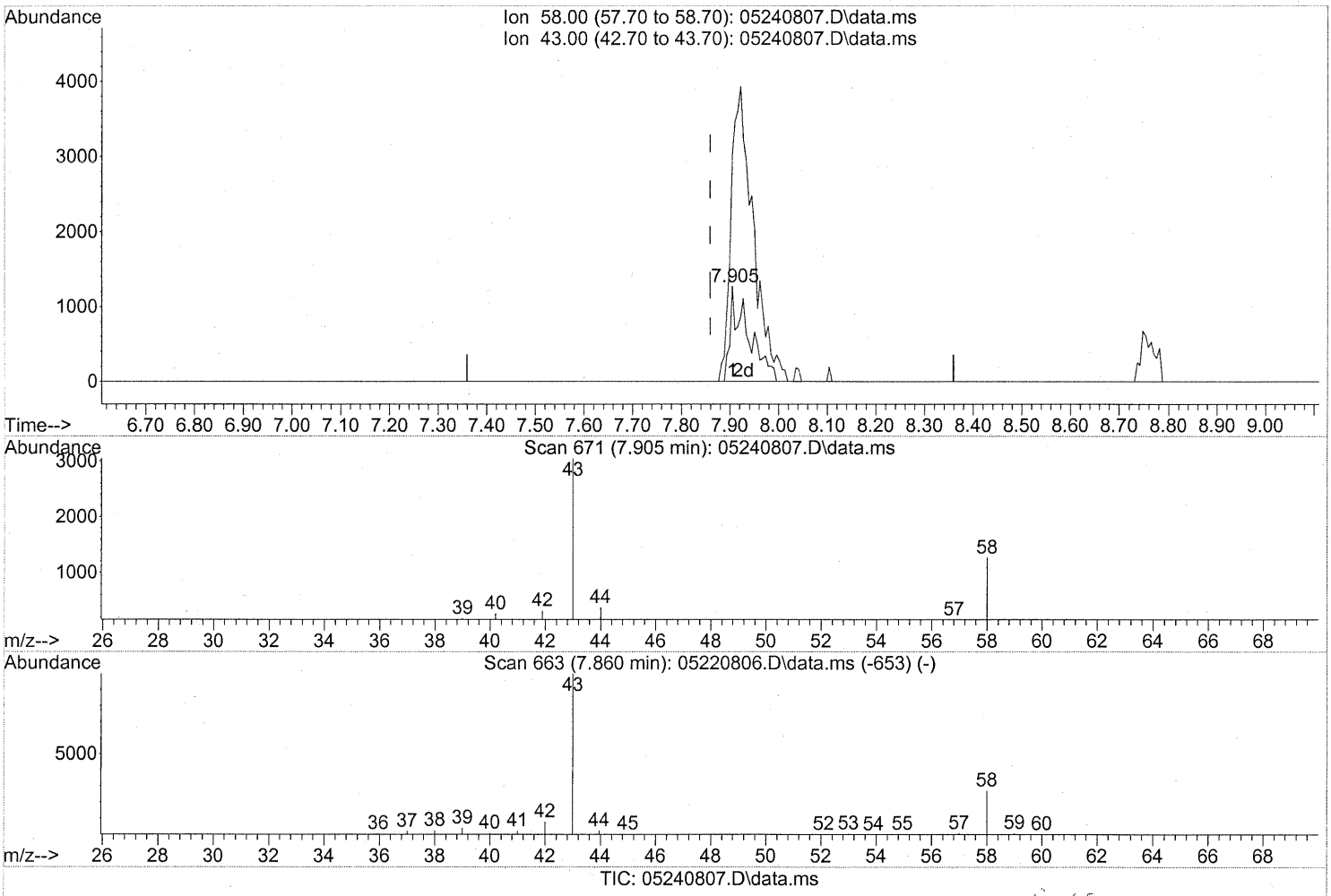
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.80	118	192	N.D. ✓	
81) 2-Ethyltoluene	24.61	105	1512	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	2569	N.D. ✓	
83) n-Decane	24.99	57	77	N.D.	
84) Benzyl Chloride	25.05	91	104	N.D. ✓	
85) 1,3-Dichlorobenzene	25.09	146	754	N.D. ✓	
86) 1,4-Dichlorobenzene	25.15	146	1397	N.D. ✓	
87) sec-Butylbenzene	25.22	105	514	N.D. ✓	
88) p-Isopropyltoluene	25.42	119	960	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	3565	N.D.	
90) 1,2-Dichlorobenzene	25.58	146	530	N.D. ✓	
91) d-Limonene	25.60	68	52	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓	
93) n-Undecane	26.51	57	581	N.D.	
94) 1,2,4-Trichlorobenzene	27.64	180	432	N.D. ✓	
95) Naphthalene	27.79	128	2283	N.D. ✓	
96) n-Dodecane	27.74	57	354	N.D.	
97) Hexachloro-1,3-butadiene	28.19	225	1932	~~0.063 ng~~	95

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(13) Acetone (T)

7.905min (+0.045) 0.14ng m

response 3271

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

no previous

5/30/08

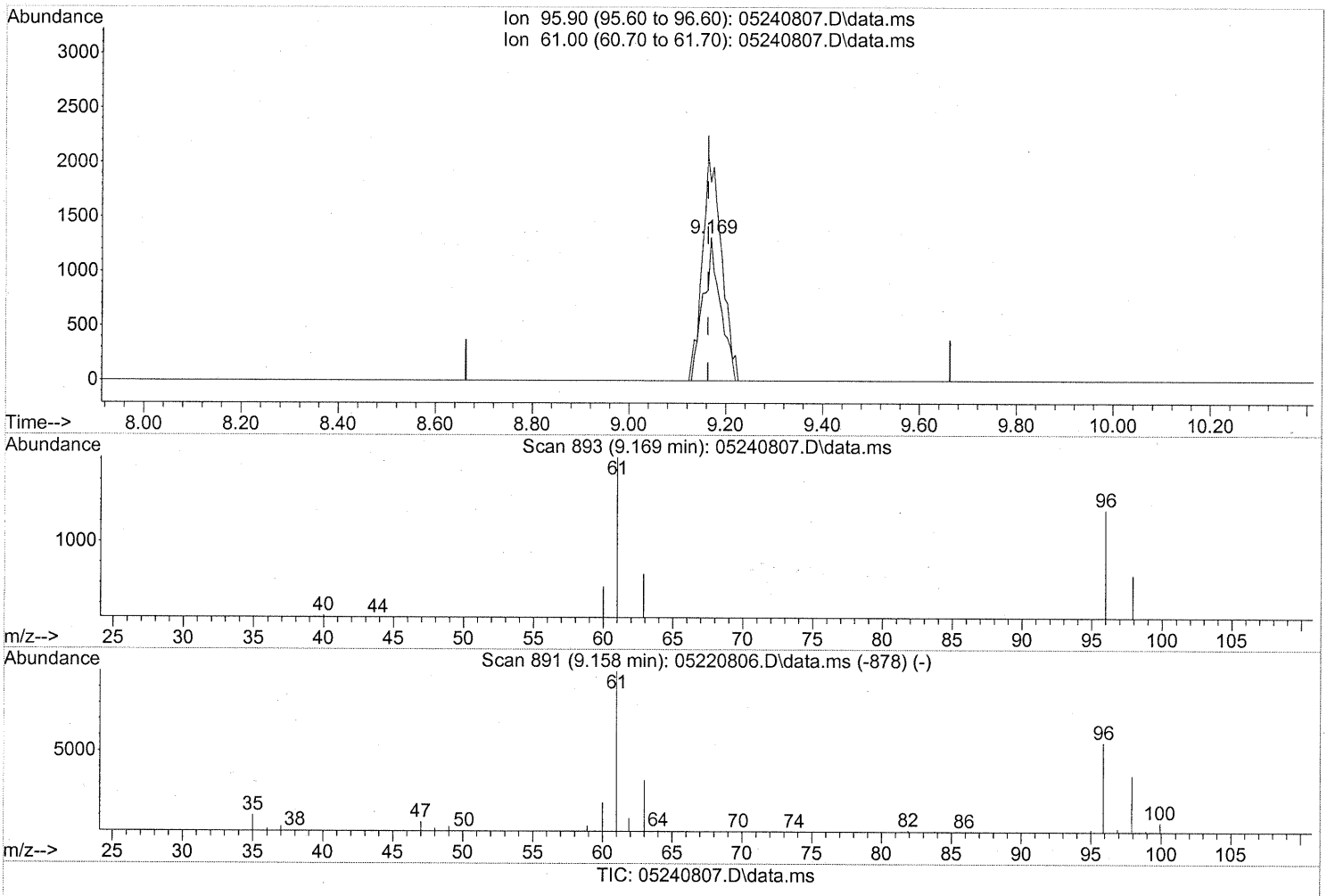
5/30/08

851

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.14ng

response 3326

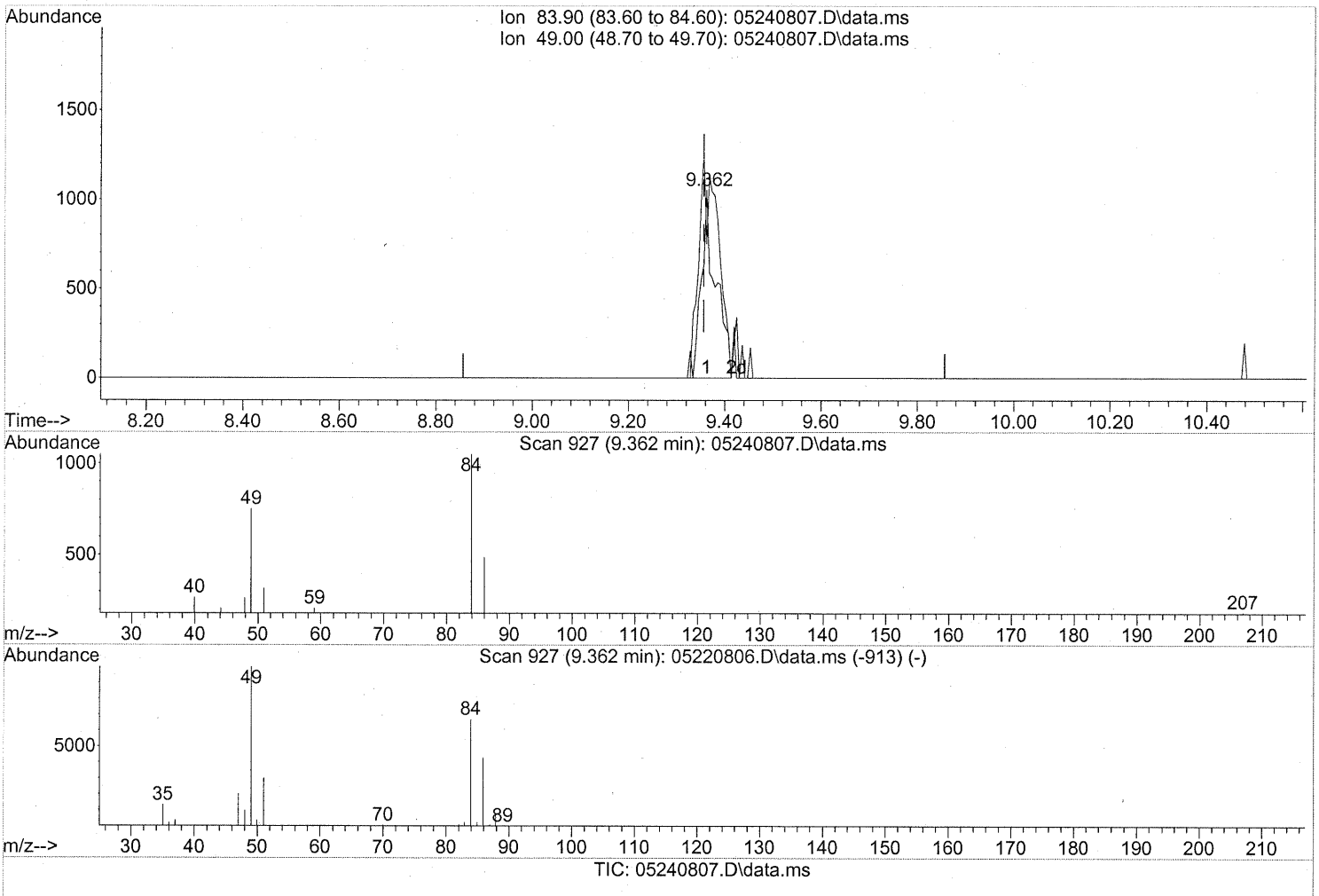
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	170.08#
0.00	0.00	0.00
0.00	0.00	0.00

852

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 0.09ng

response 2227

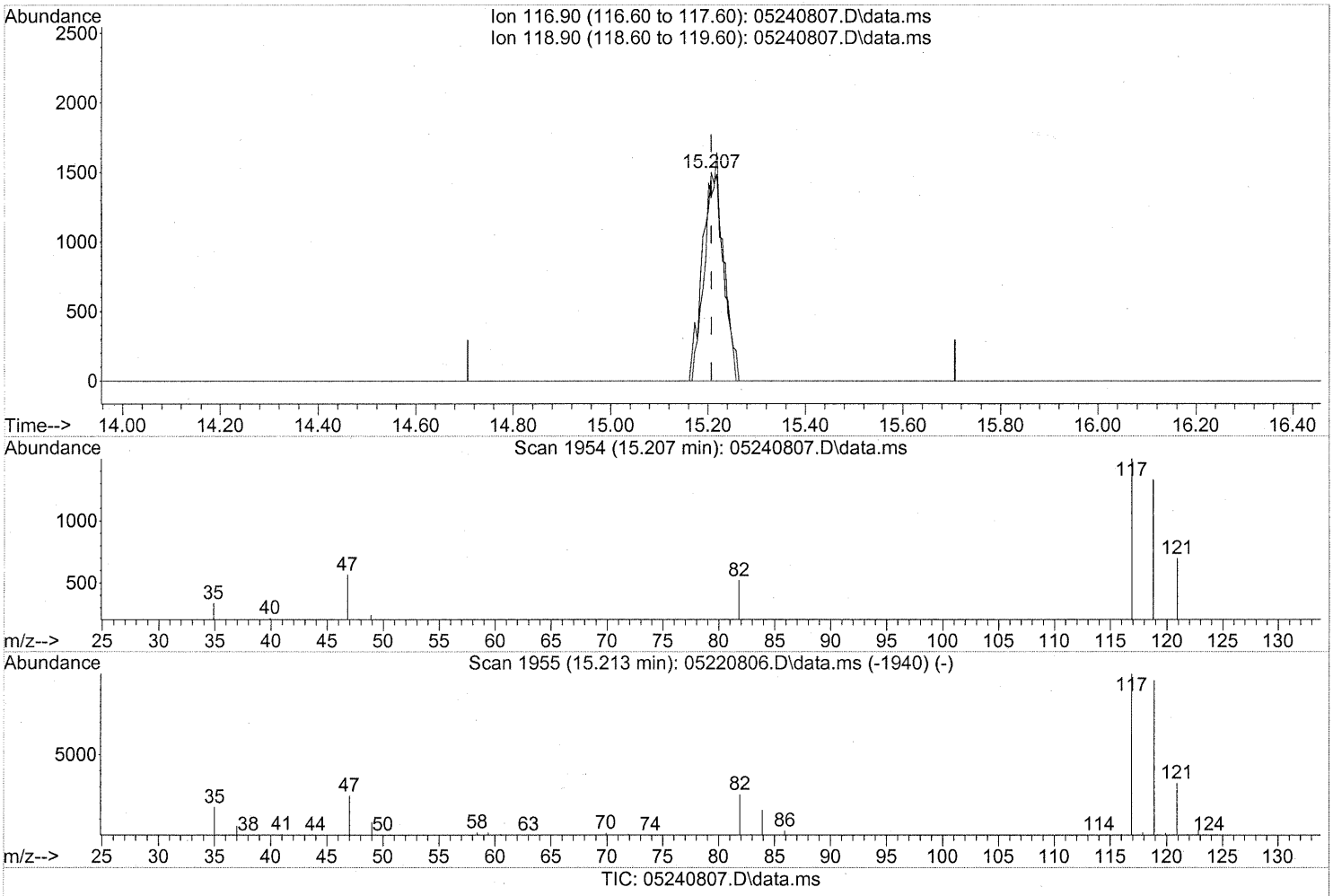
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	156.04
0.00	0.00	0.00
0.00	0.00	0.00

853

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.12ng

response 4620

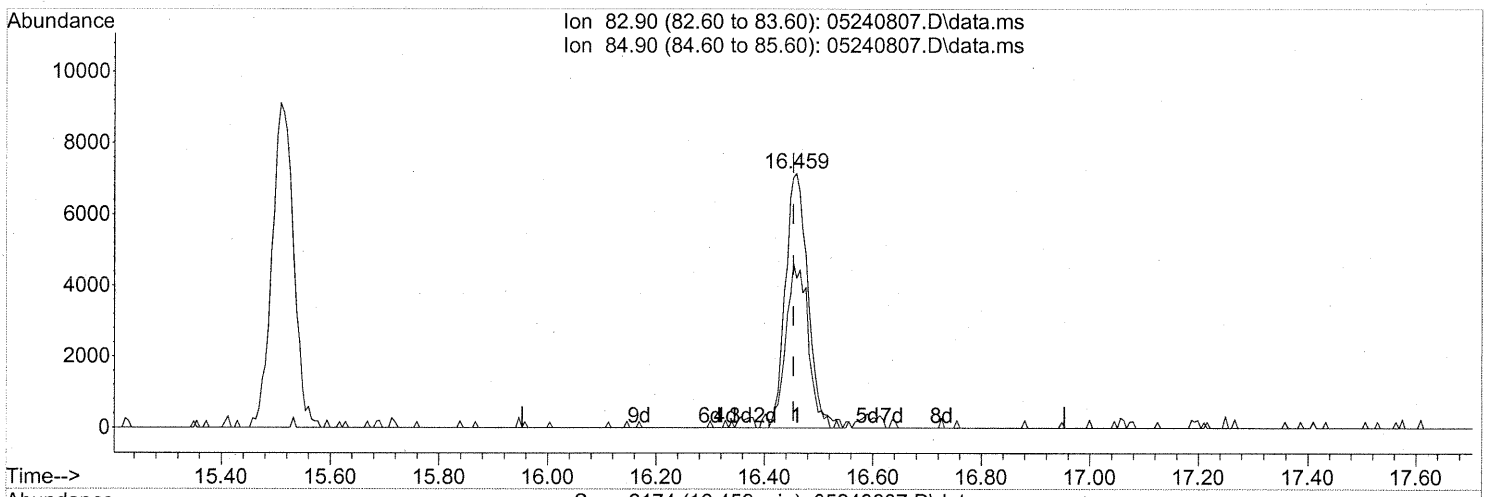
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	90.80
0.00	0.00	0.00
0.00	0.00	0.00

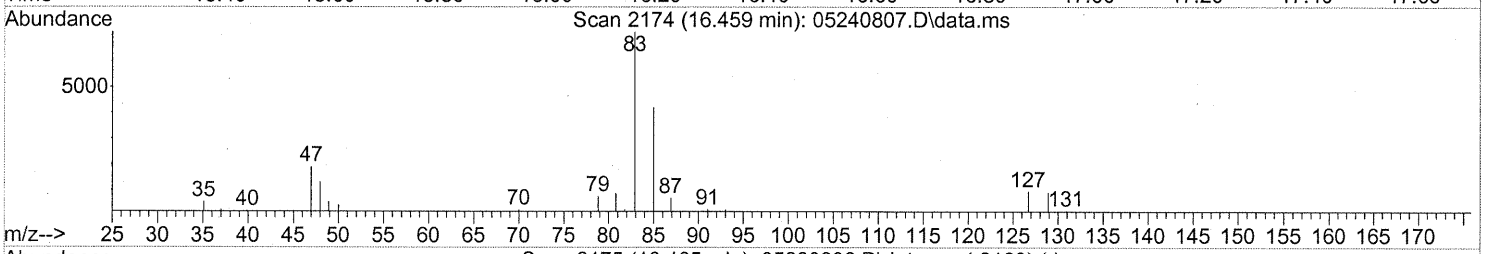
854

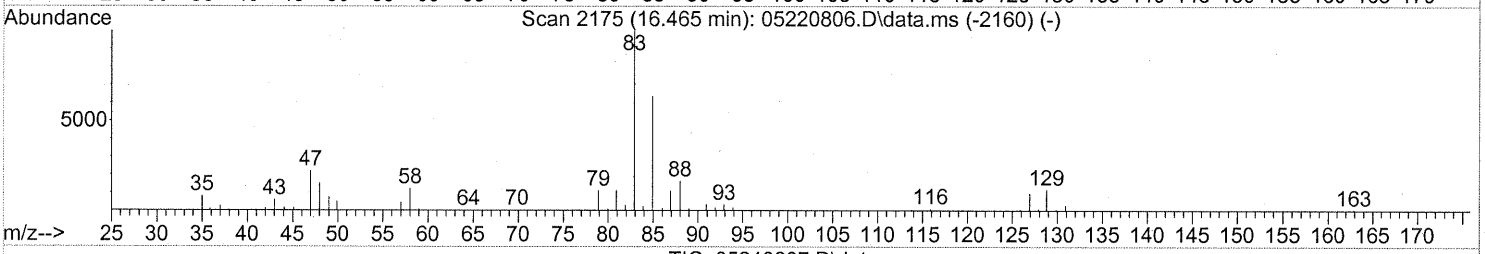
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240807.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 0.64ng

response 20692

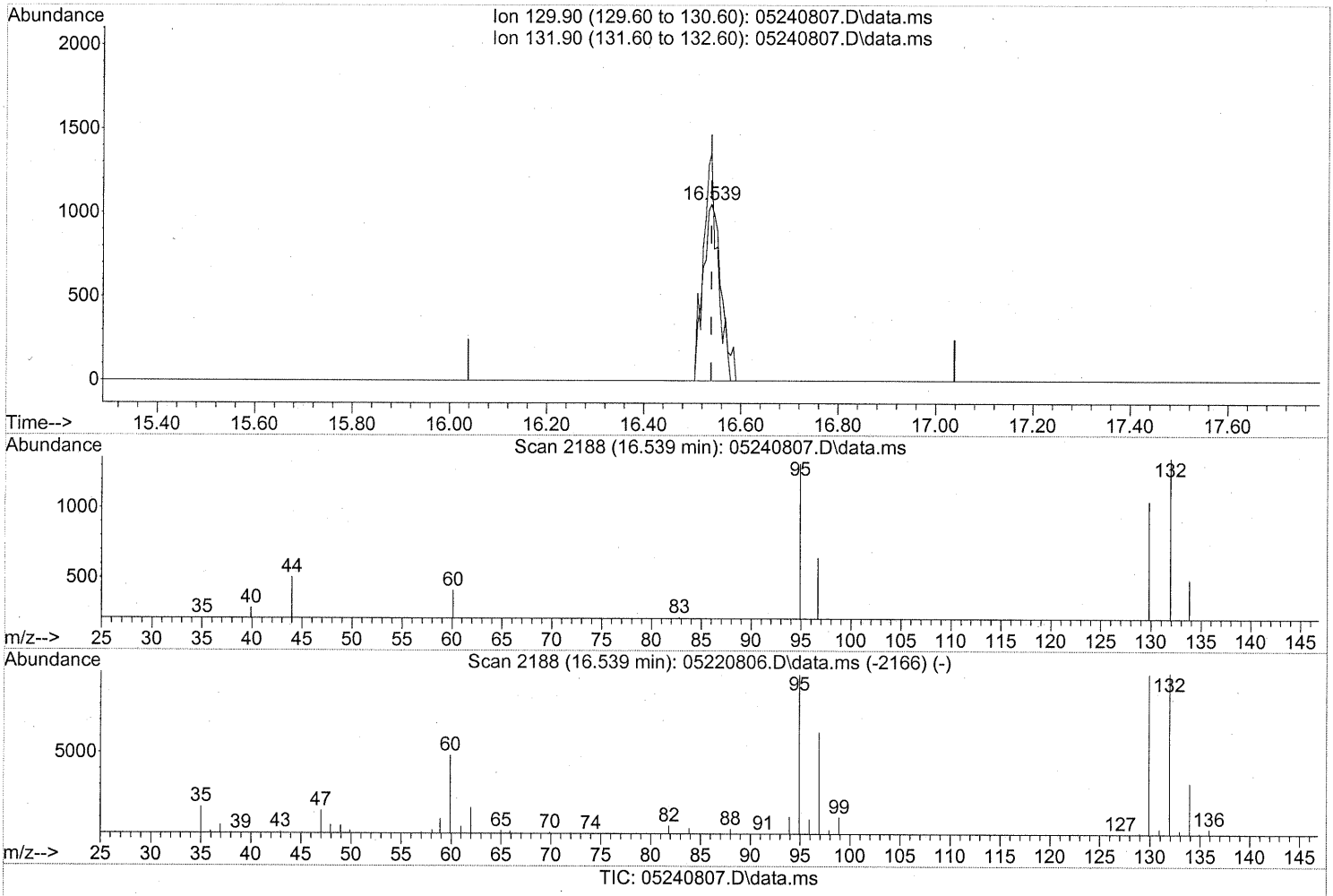
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	63.67
0.00	0.00	0.00
0.00	0.00	0.00

855

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(47) Trichloroethene (T)

16.539min (-0.000) 0.09ng

response 2622

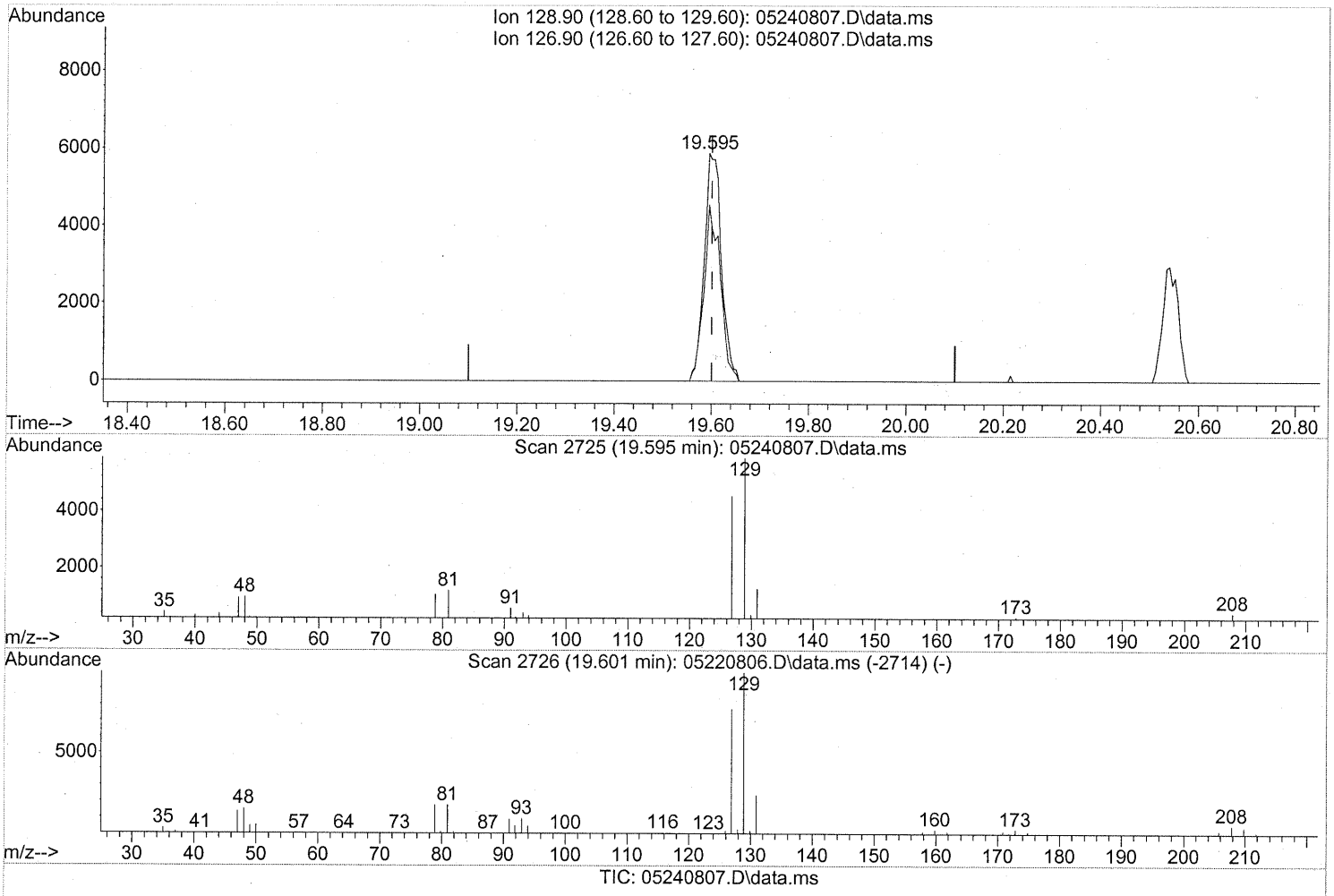
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	109.42
0.00	0.00	0.00
0.00	0.00	0.00

856

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(60) Dibromochloromethane (T)

19.595min (-0.006) 0.51ng

response 14403

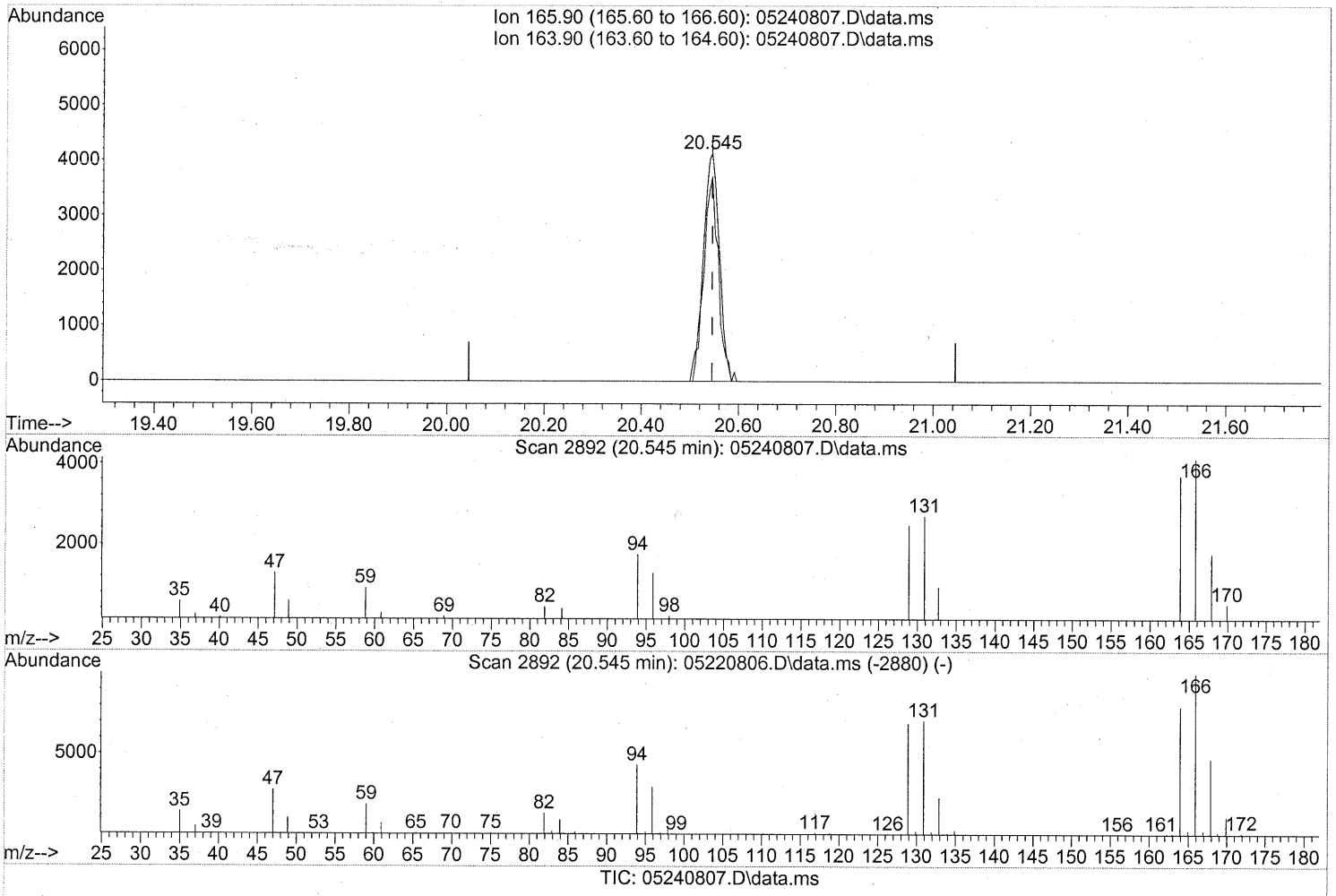
Ion	Exp%	Act%
128.90	100	100
126.90	76.90	73.96
0.00	0.00	0.00
0.00	0.00	0.00

857

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 0.30ng

response 9374

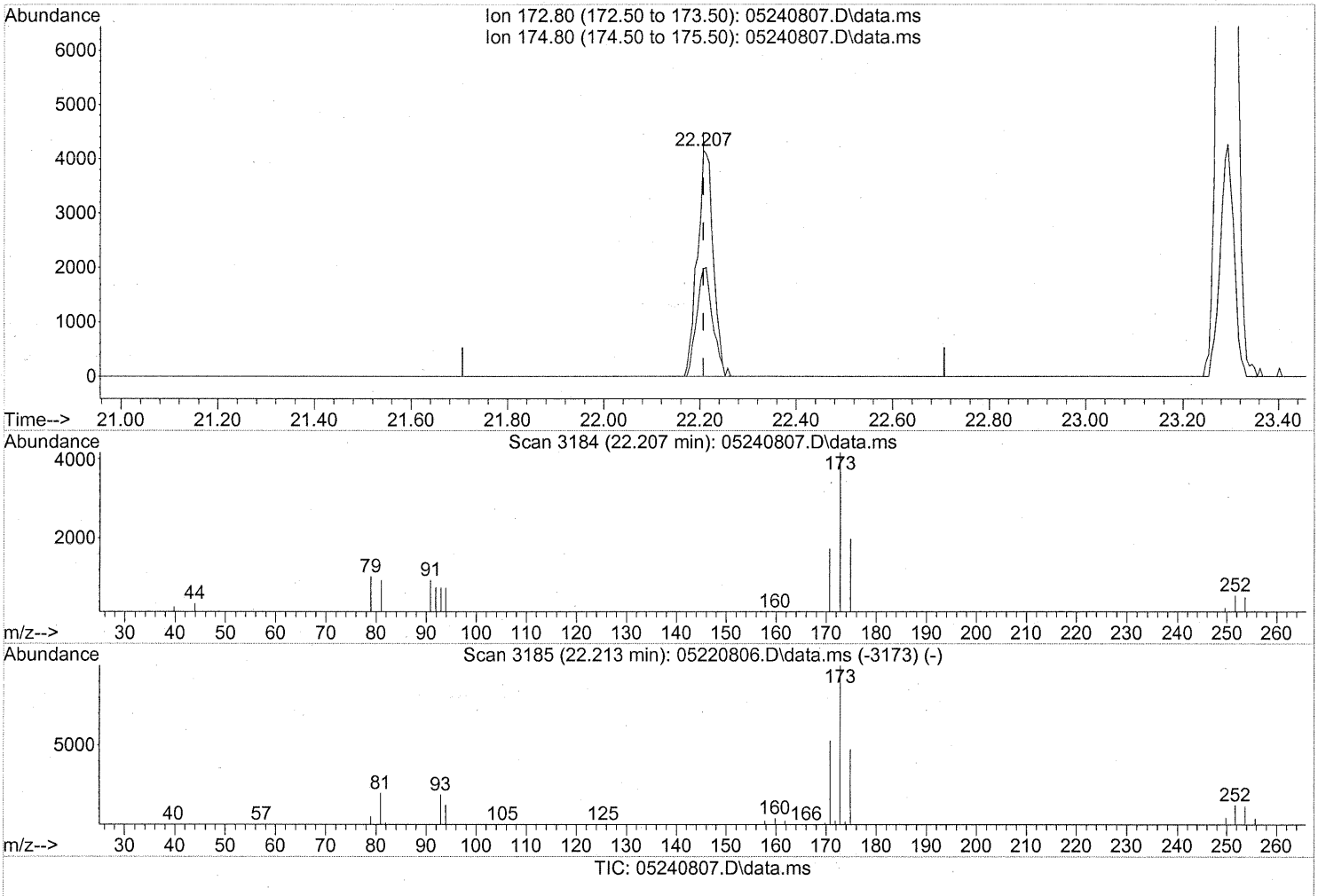
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	82.13
0.00	0.00	0.00
0.00	0.00	0.00

858

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240807.D\data.ms

(68) Bromoform (T)

22.207min (-0.000) 0.45ng

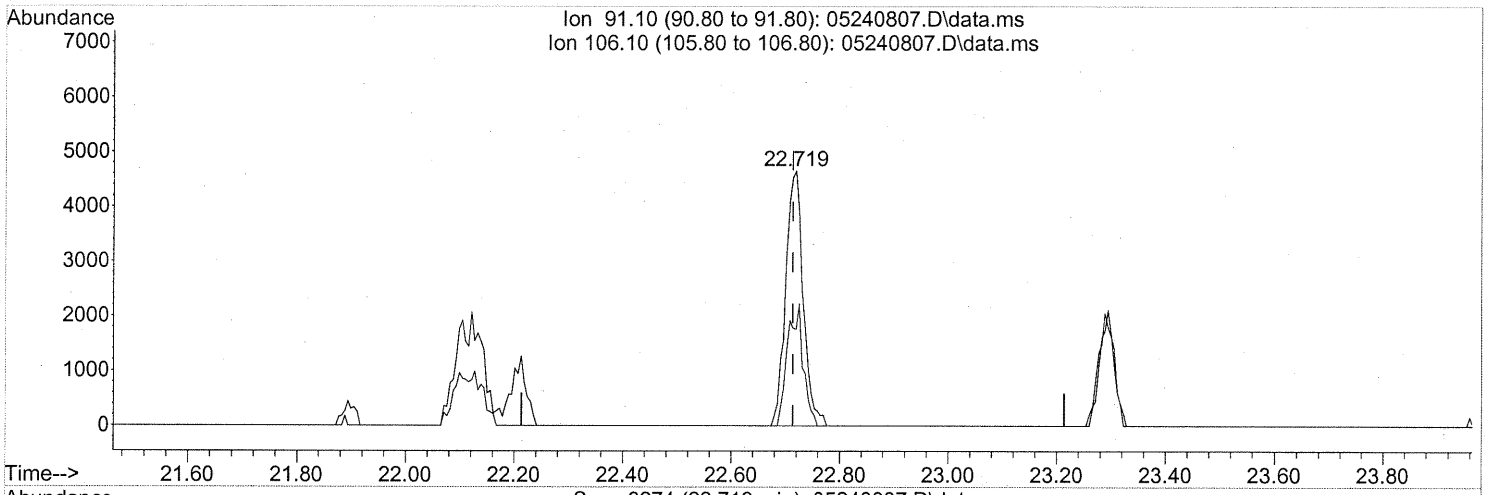
response 9485

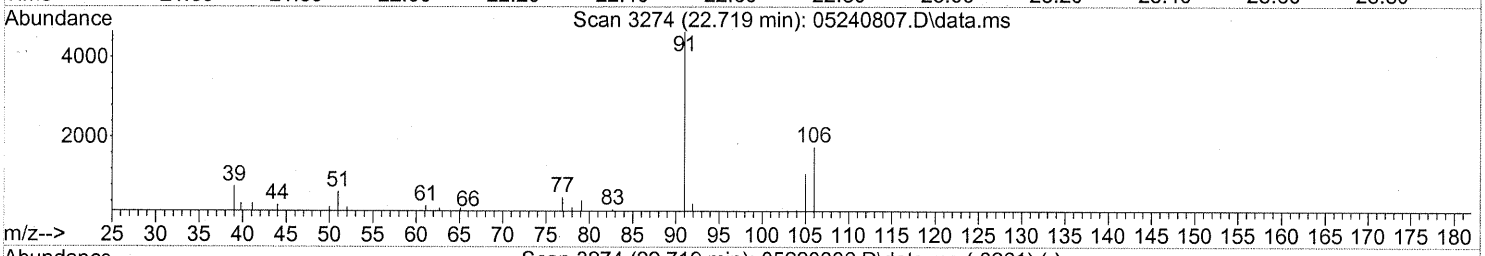
Ion	Exp%	Act%
172.80	100	100
174.80	49.40	48.58
0.00	0.00	0.00
0.00	0.00	0.00

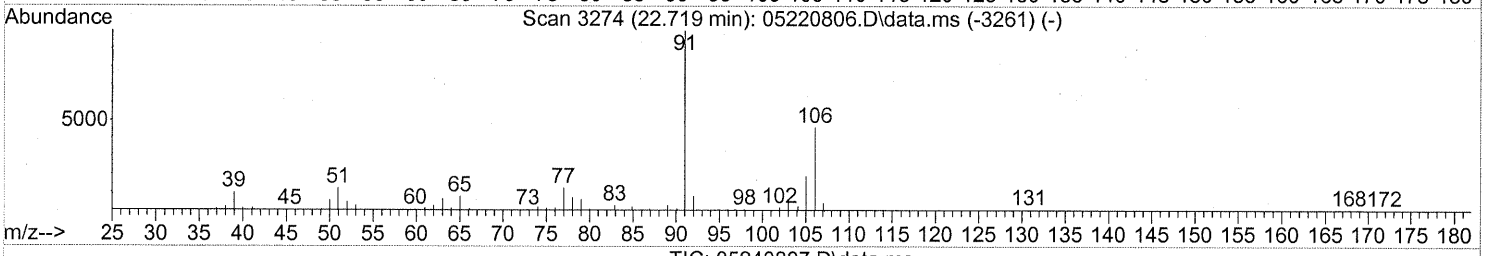
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 13:01:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240807.D\data.ms

(70) o-Xylene (T)

22.719min (+0.006) 0.12ng

response 10341

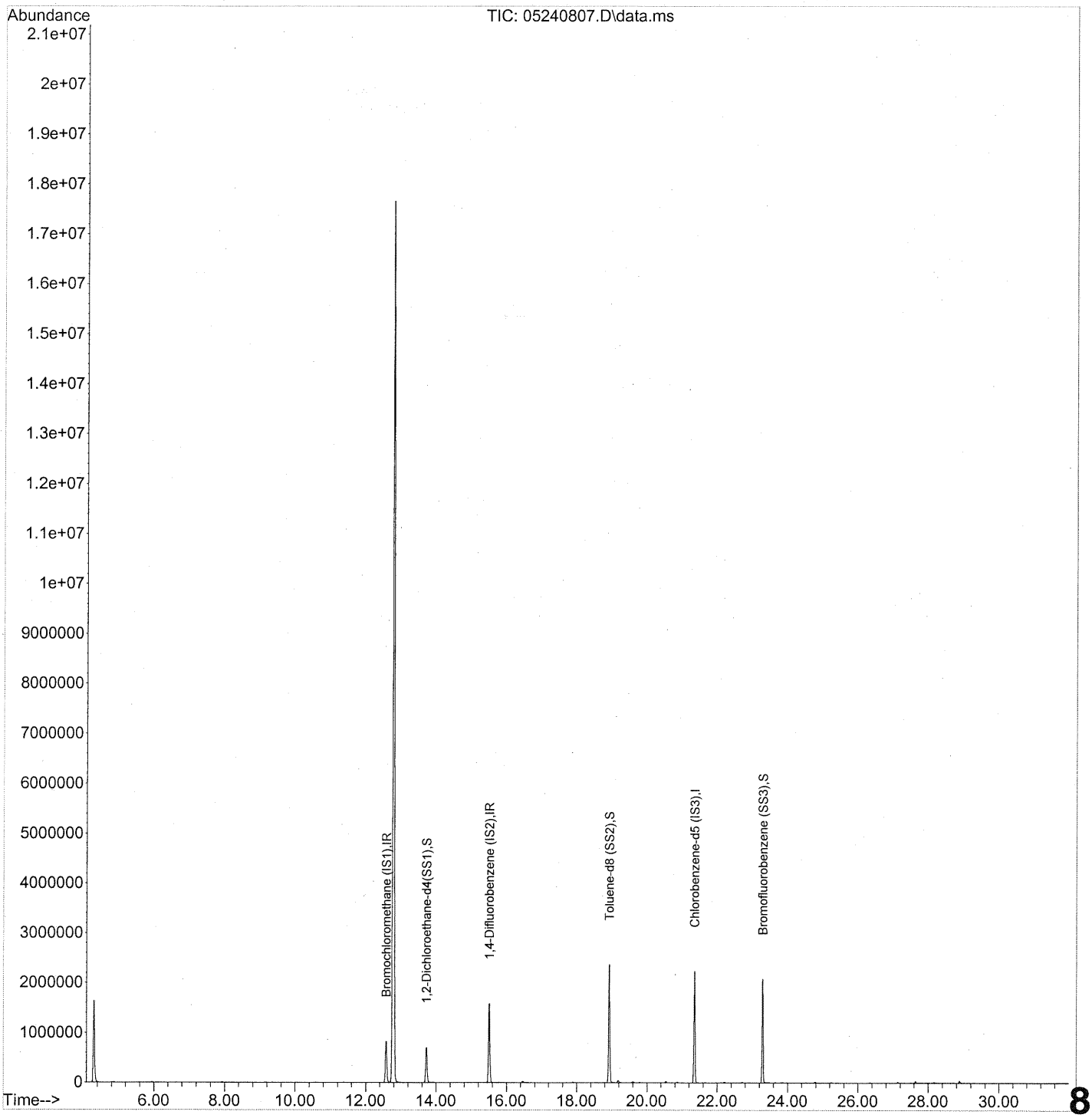
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	42.79
0.00	0.00	0.00
0.00	0.00	0.00

860

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:17 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



861

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240807.D
Acq On : 24 May 2008 11:13
Operator : WA
Sample : P0801442-017 (5.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:36:17 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	432946	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1838073	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	864159	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	717340	23.912	ng	-0.03
Spiked Amount 25.000			Recovery =	95.64%		
5) Toluene-d8 (SS2)	18.93	98	1947988	25.100	ng	-0.01
Spiked Amount 25.000			Recovery =	100.40%		
6) Bromofluorobenzene (SS3)	23.29	174	769167	24.372	ng	0.00
Spiked Amount 25.000			Recovery =	97.48%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.89	119	513	N.D.		
8) n-Butylbenzene	25.92	91	268	N.D.		

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

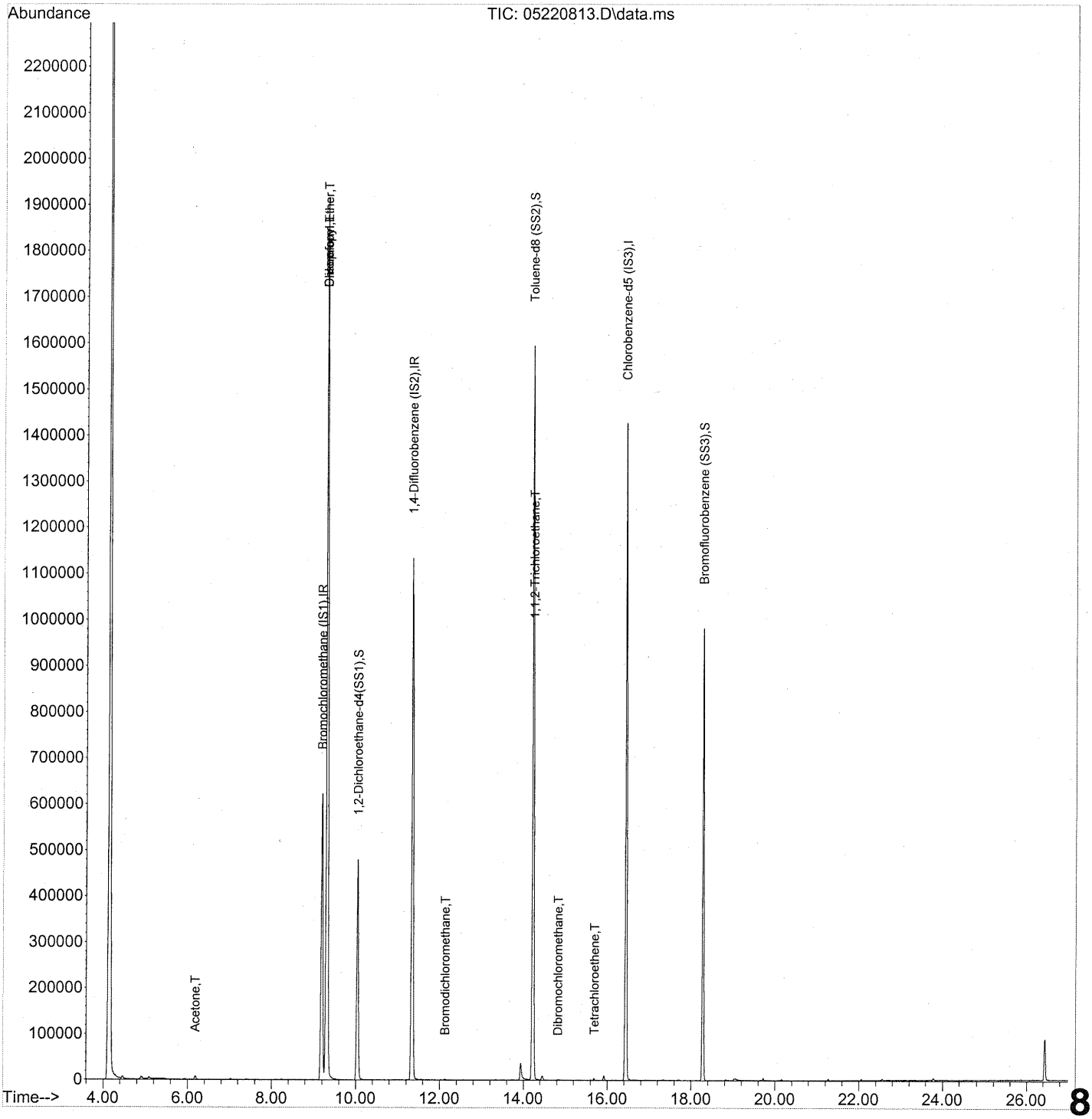
5/29/08

862

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220813.D
Acq On : 22 May 2008 15:59
Operator : WA
Sample : P0801442-017 Dil (1.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 16:38:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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



863

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220813.D
Acq On : 22 May 2008 15:59
Operator : WA
Sample : P0801442-017 Dil (1.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 16:38:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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	295772	25.000	ng	-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1263184	25.000	ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	484027	25.000	ng	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	10.04	65	437648	20.983	ng	-0.05
Spiked Amount 25.000			Recovery = 83.92%			
57) Toluene-d8 (SS2)	14.22	98	1261577	26.471	ng	-0.02
Spiked Amount 25.000			Recovery = 105.88%			
73) Bromofluorobenzene (SS3)	18.28	174	349159	28.150	ng	-0.01
Spiked Amount 25.000			Recovery = 112.60%			

Target Compounds						Qvalue
2) Propene	4.46	42	1261	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	5.39	94	96	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	0.00	45	0	N.D.		
11) Acetonitrile	5.95	41	2417	N.D.		
12) Acrolein	6.06	56	295	N.D.		
13) Acetone	6.18	58	3559	0.182	ng #	79
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	6.94	96	93	N.D.		
18) tert-Butanol	0.00	59	0	N.D.		
19) Methylene Chloride	7.03	84	718	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	1752	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	9.31	87	209551	16.353	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\22\
Data File : 05220813.D
Acq On : 22 May 2008 15:59
Operator : WA
Sample : P0801442-017 Dil (1.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 16:38:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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	9.31	83	1883389	85.395	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	758	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	11.33	84	468	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	1510	0.082	ng		88
47) Trichloroethene	12.18	130	91	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	106676	7.098	ng	#	7
58) Toluene	14.34	91	569	N.D.			
59) 2-Hexanone	14.58	43	91	N.D.			
60) Dibromochloromethane	14.83	129	1153	0.076	ng		85
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	0.00	43	0	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.69	166	1617	0.112	ng		87
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	17.14	91	366	N.D.			
67) m- & p-Xylene	17.17	91	89	N.D.			
68) Bromoform	17.26	173	297	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.72	91	679	N.D.			
71) n-Nonane	18.29	43	102	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	97	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	247	N.D.			
78) 4-Ethyltoluene	18.89	105	247	N.D.			
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.			

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5/26/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220813.D
Acq On : 22 May 2008 15:59
Operator : WA
Sample : P0801442-017 Dil (1.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 16:38:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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

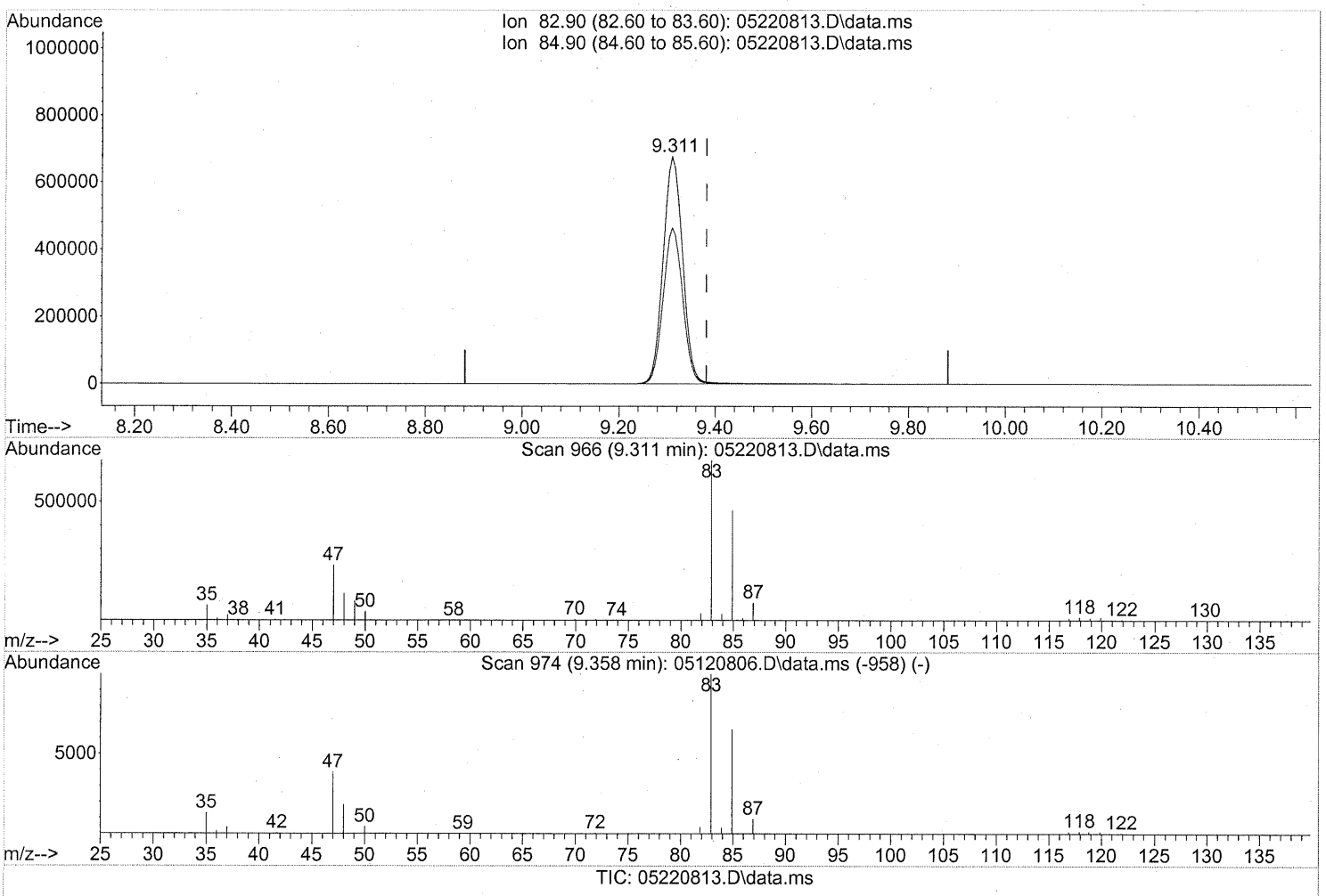
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.82	105	102	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	102	N.D.	
83) n-Decane	20.17	57	1656	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
87) sec-Butylbenzene	19.82	105	102	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
91) d-Limonene	0.00	68	0	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	21.27	57	1104	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	577	N.D.	
96) n-Dodecane	22.56	57	944	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\22\
Data File : 05220813.D
Acq On : 22 May 2008 15:59
Operator : WA
Sample : P0801442-017 Dil (1.0ml)
Misc : ENSR SG89B-05 (-3.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 16:38:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220813.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 85.39ng

response 1883389

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.61
0.00	0.00	0.00
0.00	0.00	0.00

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG75B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00575

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.075 Liter(s)
0.015 Liter(s)

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

Canister Dilution Factor: 1.64

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**	11	1.1	**0.42**	2.2	0.22	**J**
74-87-3	**Chloromethane**	**2.4**	2.2	1.1	**1.1**	1.1	0.53	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	11	1.1	ND	1.6	0.16	
75-01-4	Vinyl Chloride	ND	2.2	1.1	ND	0.86	0.43	
74-83-9	Bromomethane	ND	2.2	1.1	ND	0.56	0.28	
75-00-3	Chloroethane	ND	2.2	1.1	ND	0.83	0.41	
64-17-5	**Ethanol**	**61**	110	1.1	**32**	58	0.58	**J**
67-64-1	**Acetone**	**19**	110	1.6	**8.0**	46	0.67	**J, B**
75-69-4	**Trichlorofluoromethane**	**1.3**	2.2	1.1	**0.23**	0.39	0.19	**J**
107-13-1	Acrylonitrile	ND	11	1.5	ND	5.0	0.71	
75-35-4	**1,1-Dichloroethene**	**17**	2.2	1.1	**4.3**	0.55	0.28	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	11	1.6	ND	3.6	0.53	
75-09-2	**Methylene Chloride**	**1.9**	11	1.1	**0.54**	3.1	0.31	**J**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	2.2	1.1	ND	0.70	0.35	
76-13-1	Trichlorotrifluoroethane	ND	2.2	1.2	ND	0.29	0.16	
75-15-0	**Carbon Disulfide**	**4.3**	11	2.6	**1.4**	3.5	0.84	**J**
156-60-5	trans-1,2-Dichloroethene	ND	2.2	1.1	ND	0.55	0.28	
75-34-3	1,1-Dichloroethane	ND	2.2	1.1	ND	0.54	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	1.1	ND	0.61	0.30	
108-05-4	Vinyl Acetate	ND	110	3.5	ND	31	0.99	
78-93-3	**2-Butanone (MEK)**	**3.5**	11	1.1	**1.2**	3.7	0.37	**J**
156-59-2	cis-1,2-Dichloroethene	ND	2.2	1.1	ND	0.55	0.28	
108-20-3	Diisopropyl Ether	ND	11	1.3	ND	2.6	0.31	
67-66-3	**Chloroform**	**11,000**	2.2	1.3	**2,200**	0.45	0.26	

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: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG75B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00575

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/22/08 & 5/24/08
Volume(s) Analyzed: 0.075 Liter(s)
0.015 Liter(s)

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

Canister Dilution Factor: 1.64

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	11	1.1	ND	2.6	0.27	
107-06-2	1,2-Dichloroethane	ND	2.2	1.1	ND	0.54	0.27	
71-55-6	1,1,1-Trichloroethane	ND	2.2	1.1	ND	0.40	0.20	
71-43-2	**Benzene**	**2.8**	2.2	1.1	**0.88**	0.68	0.34	
56-23-5	**Carbon Tetrachloride**	**19**	2.2	1.1	**3.0**	0.35	0.17	
994-05-8	tert-Amyl Methyl Ether	ND	11	1.1	ND	2.6	0.26	
78-87-5	1,2-Dichloropropane	ND	2.2	1.1	ND	0.47	0.24	
75-27-4	**Bromodichloromethane**	**4.0**	2.2	1.1	**0.59**	0.33	0.16	
79-01-6	**Trichloroethene**	**180**	2.2	1.1	**33**	0.41	0.20	
123-91-1	1,4-Dioxane	ND	11	1.3	ND	3.0	0.37	
80-62-6	Methyl Methacrylate	ND	11	1.6	ND	2.7	0.40	
142-82-5	n-Heptane	ND	11	1.4	ND	2.7	0.34	
10061-01-5	cis-1,3-Dichloropropene	ND	11	1.1	ND	2.4	0.25	
108-10-1	4-Methyl-2-pentanone	ND	11	1.2	ND	2.7	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	11	1.4	ND	2.4	0.30	
79-00-5	1,1,2-Trichloroethane	ND	2.2	1.1	ND	0.40	0.20	
108-88-3	**Toluene**	**2.9**	11	1.1	**0.78**	2.9	0.29	**J**
591-78-6	2-Hexanone	ND	11	1.7	ND	2.7	0.41	
124-48-1	Dibromochloromethane	ND	2.2	1.5	ND	0.26	0.17	
106-93-4	1,2-Dibromoethane	ND	2.2	1.2	ND	0.28	0.15	
111-65-9	n-Octane	ND	11	1.1	ND	2.3	0.23	
127-18-4	**Tetrachloroethene**	**15**	2.2	1.1	**2.2**	0.32	0.16	
108-90-7	Chlorobenzene	ND	2.2	1.1	ND	0.48	0.24	

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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
Client Sample ID: **SG75B-05** CAS Sample ID: P0801442-018
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Analyzed: 5/22/08 & 5/24/08
Analyst: Wida Ang Volume(s) Analyzed: 0.075 Liter(s)
Sampling Media: 6.0 L Summa Canister 0.015 Liter(s)
Test Notes:
Container ID: SC00575

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

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	11	1.4	ND	2.5	0.31	
179601-23-1	m,p-Xylenes	ND	11	2.8	ND	2.5	0.65	
75-25-2	Bromoform	ND	11	1.7	ND	1.1	0.16	
100-42-5	Styrene	ND	11	1.7	ND	2.6	0.39	
95-47-6	o-Xylene	ND	11	1.4	ND	2.5	0.32	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	1.4	ND	0.32	0.20	
98-82-8	Cumene	ND	11	1.2	ND	2.2	0.25	
103-65-1	n-Propylbenzene	ND	11	1.1	ND	2.2	0.23	
622-96-8	4-Ethyltoluene	ND	11	1.2	ND	2.2	0.25	
108-67-8	1,3,5-Trimethylbenzene	ND	11	1.3	ND	2.2	0.27	
98-83-9	alpha-Methylstyrene	ND	11	1.6	ND	2.3	0.33	
95-63-6	1,2,4-Trimethylbenzene	ND	11	1.5	ND	2.2	0.31	
100-44-7	Benzyl Chloride	ND	2.2	1.9	ND	0.42	0.36	
541-73-1	1,3-Dichlorobenzene	ND	2.2	1.4	ND	0.36	0.23	
106-46-7	1,4-Dichlorobenzene	ND	2.2	1.2	ND	0.36	0.20	
135-98-8	sec-Butylbenzene	ND	11	1.3	ND	2.0	0.23	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	11	1.4	ND	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	ND	2.2	1.4	ND	0.36	0.24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.7	ND	1.1	0.17	
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	1.7	ND	0.29	0.22	
91-20-3	Naphthalene	ND	4.4	1.6	ND	0.83	0.31	
87-68-3	Hexachlorobutadiene	ND	2.2	2.0	ND	0.21	0.18	
98-06-6	tert-Butylbenzene	ND	4.4	1.1	ND	0.80	0.20	
104-51-8	n-Butylbenzene	ND	4.4	1.1	ND	0.80	0.20	

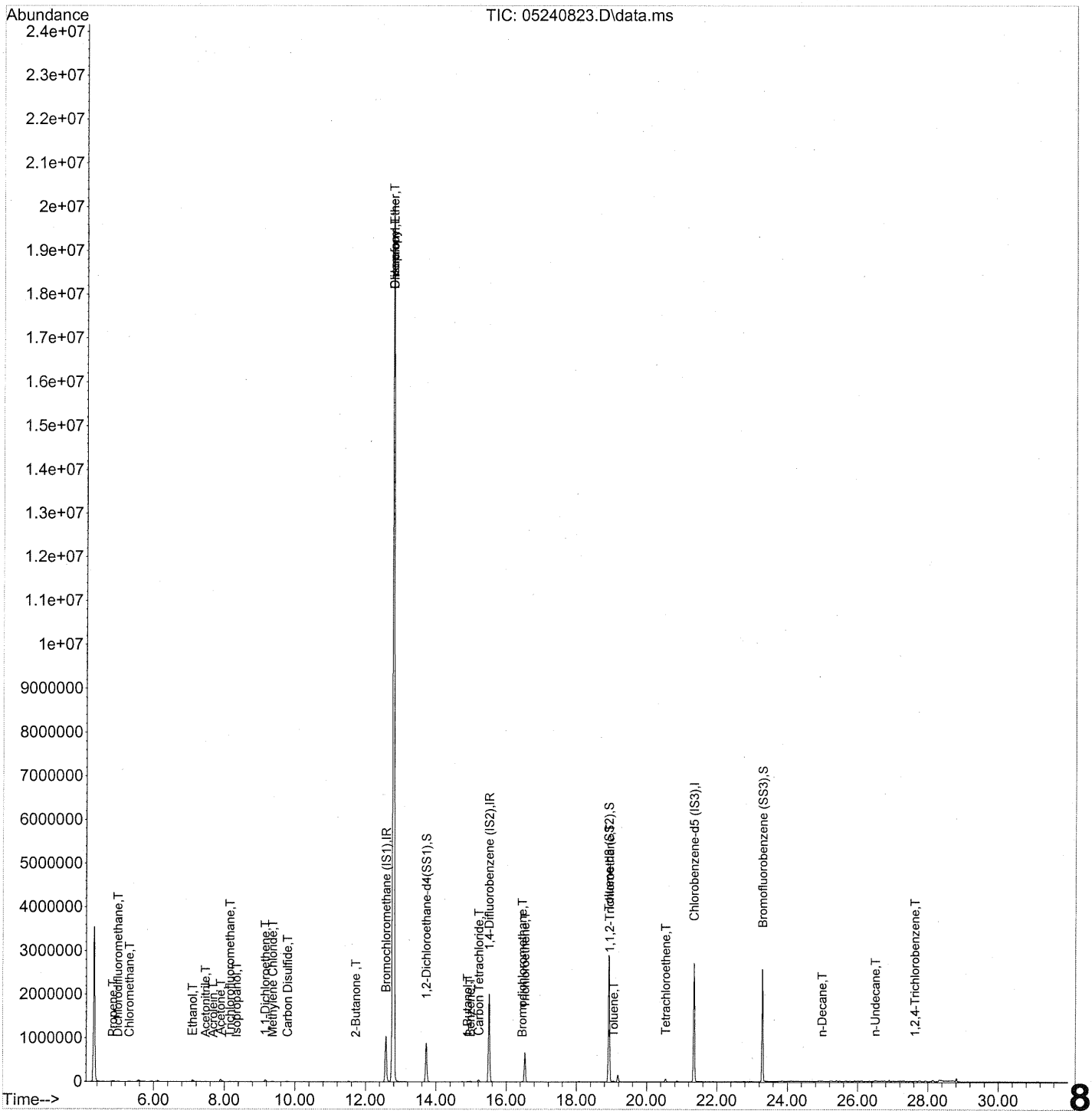
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 6/2/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



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QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	558421	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	2357400	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1070709	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	884174	22.851	ng		0.00
Spiked Amount 25.000			Recovery =	91.40%			
57) Toluene-d8 (SS2)	18.92	98	2454457	25.525	ng		0.00
Spiked Amount 25.000			Recovery =	102.08%			
73) Bromofluorobenzene (SS3)	23.29	174	993968	25.419	ng		0.00
Spiked Amount 25.000			Recovery =	101.68%			
Target Compounds							Qvalue
2) Propene	4.84	42	4567	0.104	ng	#	71
3) Dichlorodifluoromethane	4.99	85	7661	0.094	ng		98
4) Chloromethane	5.32	50	5673	0.108	ng		89
5) Freon 114	5.55	135	147	N.D.			
6) Vinyl Chloride	5.77	62	68	N.D.			
7) 1,3-Butadiene	6.05	54	67	N.D.			
8) Bromomethane	6.51	94	81	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.10	45	82195m	2.799	ng		
11) Acetonitrile	7.46	41	4885	0.058	ng	#	26
12) Acrolein	7.68	56	1950	0.093	ng	#	75
13) Acetone	7.89	58	26131m	0.869	ng		
14) Trichlorofluoromethane	8.16	101	4034	0.058	ng		91
15) Isopropanol	8.35	45	5733	0.060	ng		99
16) Acrylonitrile	8.71	53	56	N.D.			
17) 1,1-Dichloroethene	9.16	96	23957	0.781	ng	#	73
18) tert-Butanol	9.16	59	1270	N.D.			
19) Methylene Chloride	9.37	84	2894	0.086	ng	#	71
20) Allyl Chloride	9.46	41	390	N.D.			
21) Trichlorotrifluoroethane	9.79	151	304	N.D.			
22) Carbon Disulfide	9.78	76	25300	0.198	ng		97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	11.10	63	1636	N.D.			
25) Methyl tert-Butyl Ether	11.23	73	2062	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	11.72	72	3523	0.161	ng	#	86
28) cis-1,2-Dichloroethene	12.34	61	128	N.D.			
29) Diisopropyl Ether	12.79	87	2700264	~~100.440~~	ng	NR#	1
30) Ethyl Acetate	12.74	61	56	N.D.			
31) n-Hexane	12.70	57	763	N.D.			

872

DT 5/29/08

Quantitation Report (QT Reviewed)

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ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	12.79	83	22361207	~~439.134 ng~~ see dil	93
34) Tetrahydrofuran	13.44	72	55	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓	
36) 1,2-Dichloroethane	13.91	62	61	N.D. ✓	
38) 1,1,1-Trichloroethane	14.29	97	76	N.D. ✓	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.90	56	4855	0.150 ng	98
41) Benzene	14.98	78	15864	0.129 ng	99
42) Carbon Tetrachloride	15.22	117	40835	0.859 ng	97
43) Cyclohexane	15.42	84	401	N.D.	
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓	
45) 1,2-Dichloropropane	16.19	63	585	N.D. ✓	
46) Bromodichloromethane	16.46	83	7556	0.181 ng	88
47) Trichloroethene	16.53	130	306544	8.096 ng	99
48) 1,4-Dioxane	0.00	88	0	N.D. ✓	
49) Isooctane	16.62	57	1599	N.D.	
50) Methyl Methacrylate	16.53	100	545	N.D. ✓	
51) n-Heptane	0.00	71	0	N.D. ✓	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D. ✓	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓	
55) 1,1,2-Trichloroethane	18.94	97	212509	~~6.967 ng~~ NR#	9
58) Toluene	19.06	91	17504	0.134 ng	96
59) 2-Hexanone	19.39	43	791	N.D. ✓	
60) Dibromochloromethane	19.61	129	1029	N.D. ✓	
61) 1,2-Dibromoethane	19.95	107	779	N.D. ✓	
62) Butyl Acetate	20.19	43	418	N.D.	
63) n-Octane	20.35	57	155	N.D. ✓	
64) Tetrachloroethene	20.55	166	26131	0.676 ng	99
65) Chlorobenzene	21.43	112	55	N.D. ✓	
66) Ethylbenzene	21.88	91	1981	N.D. ✓	
67) m- & p-Xylene	22.10	91	1096	N.D. ✓	
68) Bromoform	0.00	173	0	N.D. ✓	
69) Styrene	22.58	104	76	N.D. ✓	
70) o-Xylene	22.71	91	618	N.D. ✓	
71) n-Nonane	22.98	43	1184	N.D.	
72) 1,1,2,2-Tetrachloroethane	22.67	83	292	N.D. ✓	
74) Cumene	23.46	105	688	N.D. ✓	
75) alpha-Pinene	23.94	93	1655	N.D.	
76) n-Propylbenzene	24.11	91	832	N.D. ✓	
77) 3-Ethyltoluene	24.23	105	335	N.D.	
78) 4-Ethyltoluene	24.30	105	571	N.D. ✓	
79) 1,3,5-Trimethylbenzene	24.38	105	462	N.D. ✓	

873

Quantitation Report (QT Reviewed)

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Operator : WA
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Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.59	118	157	N.D.			
81) 2-Ethyltoluene	24.62	105	419	N.D.			
82) 1,2,4-Trimethylbenzene	24.88	105	964	N.D.			
83) n-Decane	24.98	57	3960	0.055	ng		81
84) Benzyl Chloride	25.08	91	530	N.D.			
85) 1,3-Dichlorobenzene	25.07	146	1368	N.D.			
86) 1,4-Dichlorobenzene	25.15	146	2012	N.D.			
87) sec-Butylbenzene	25.22	105	281	N.D.			
88) p-Isopropyltoluene	25.39	119	232	N.D.			
89) 1,2,3-Trimethylbenzene	25.41	105	633	N.D.			
90) 1,2-Dichlorobenzene	25.58	146	888	N.D.			
91) d-Limonene	25.58	68	326	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	26.50	57	5601	0.074	ng	#	73
94) 1,2,4-Trichlorobenzene	27.63	180	4102	0.072	ng	#	79
95) Naphthalene	27.78	128	8113	N.D.			
96) n-Dodecane	27.74	57	2522	N.D.			
97) Hexachloro-1,3-butadiene	28.32	225	326	N.D.			

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

MH 5/29/08

874

Quantitation Report (Qedit)

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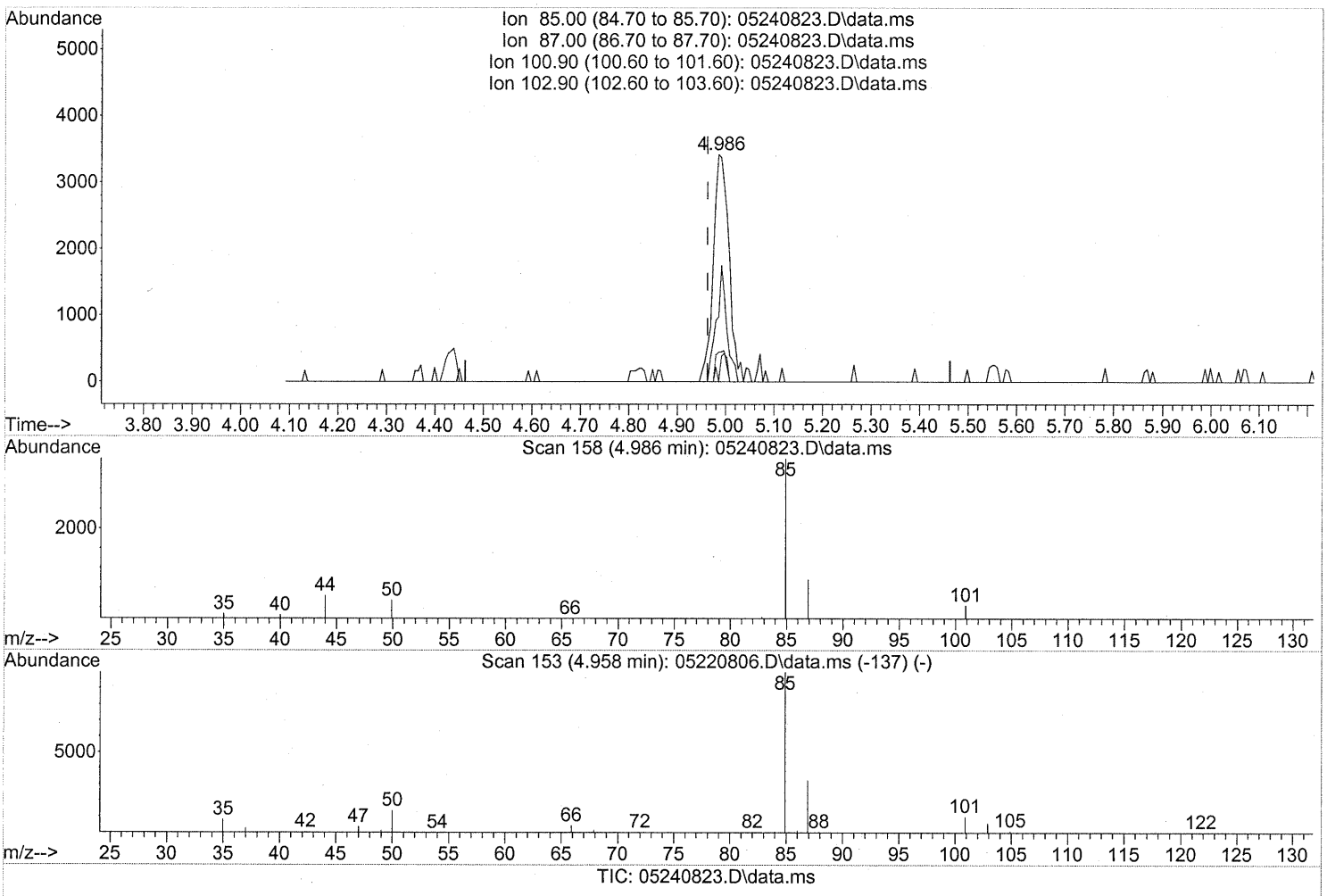
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.09ng

response 7661

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	34.11
100.90	9.30	8.86
102.90	6.00	6.13

875

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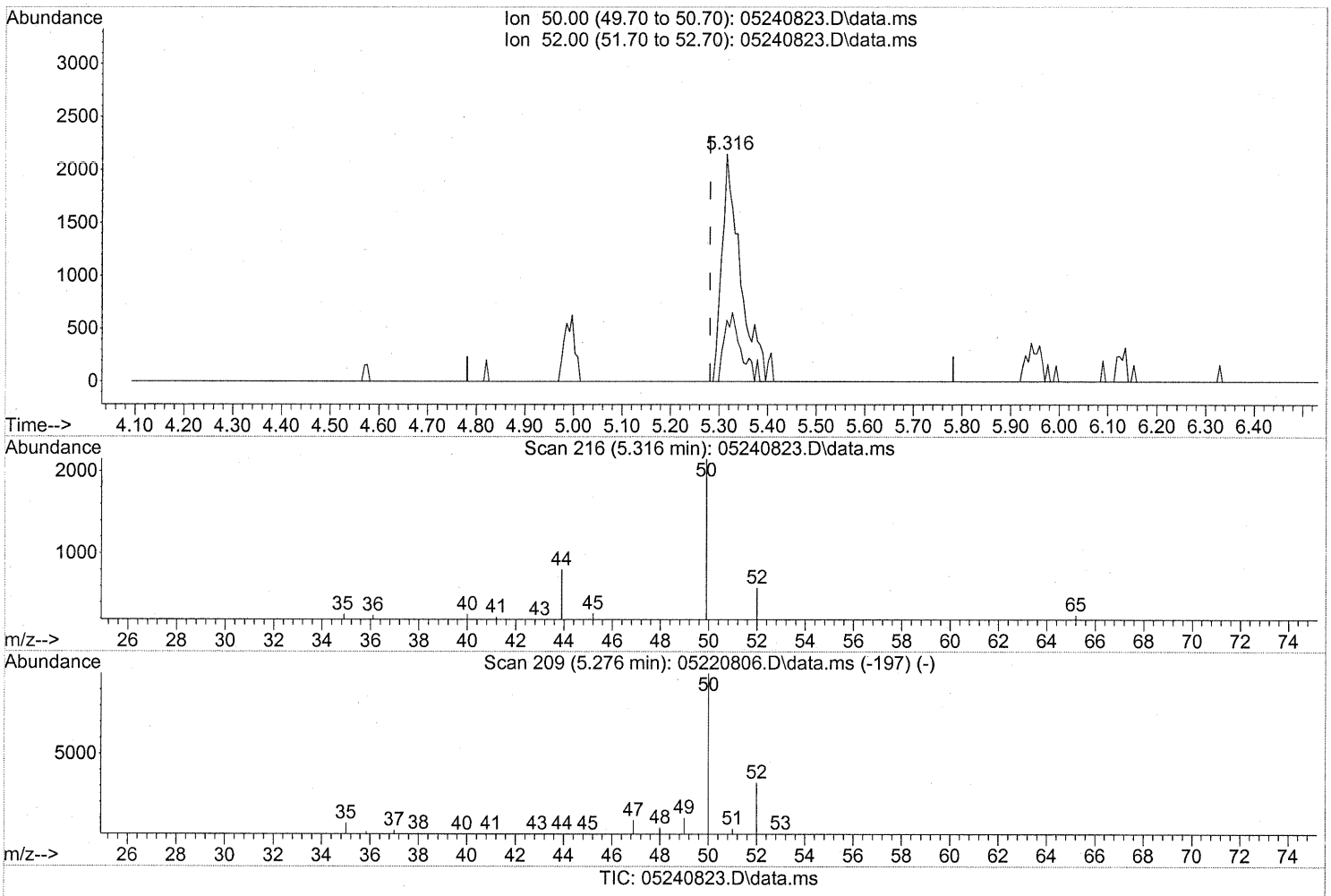
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(4) Chloromethane (T)

5.316min (+0.034) 0.11ng

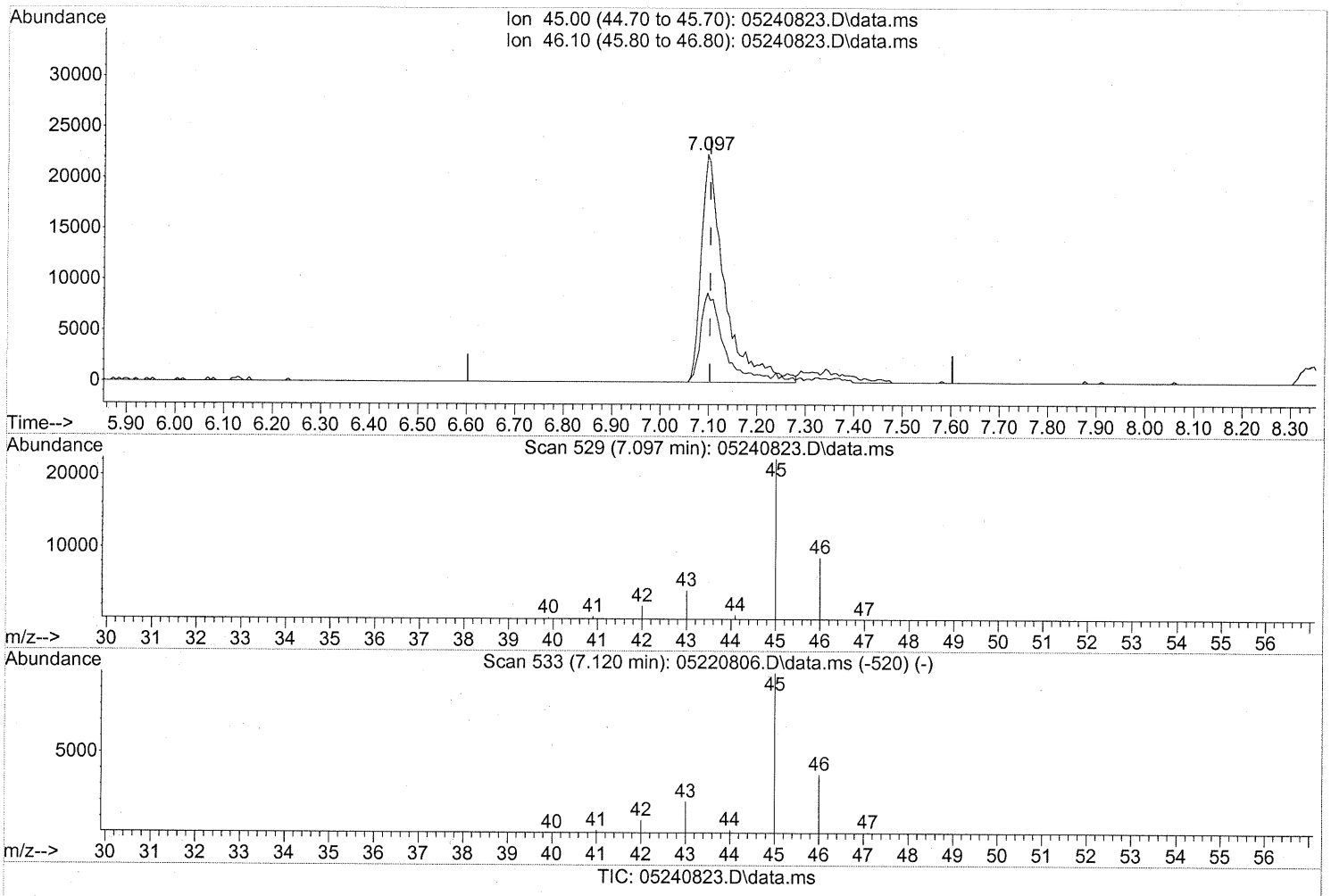
response 5673

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	27.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801422-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 09:06:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 2.54ng

response 74626

split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.35
0.00	0.00	0.00
0.00	0.00	0.00

877

Quantitation Report (Qedit)

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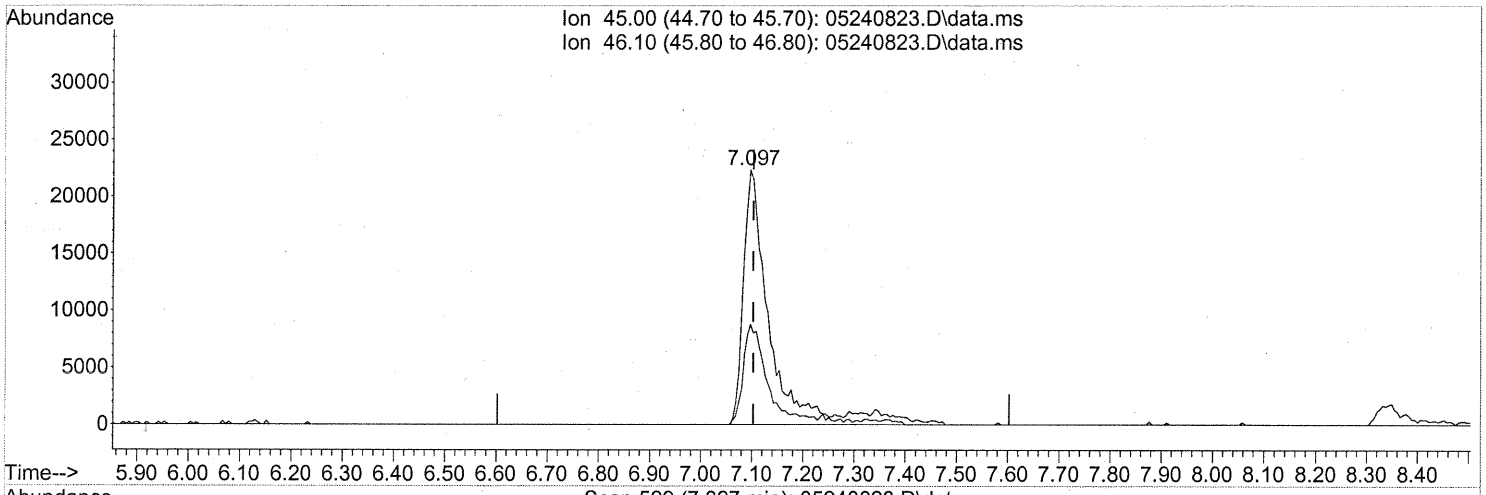

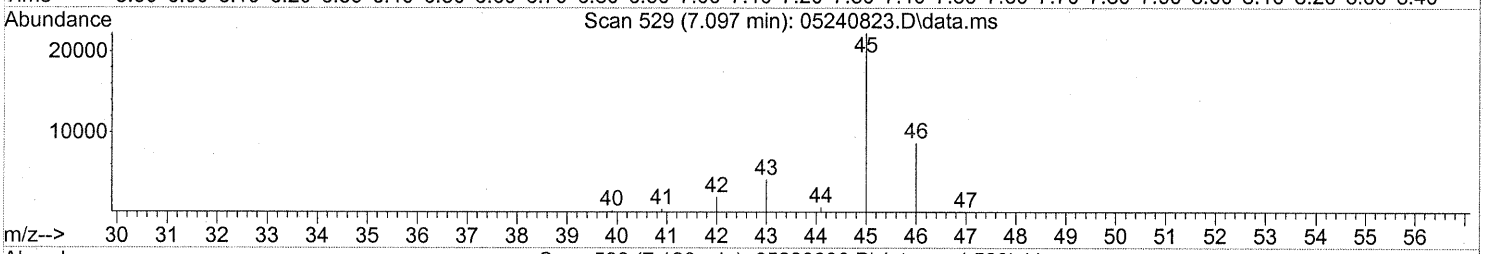

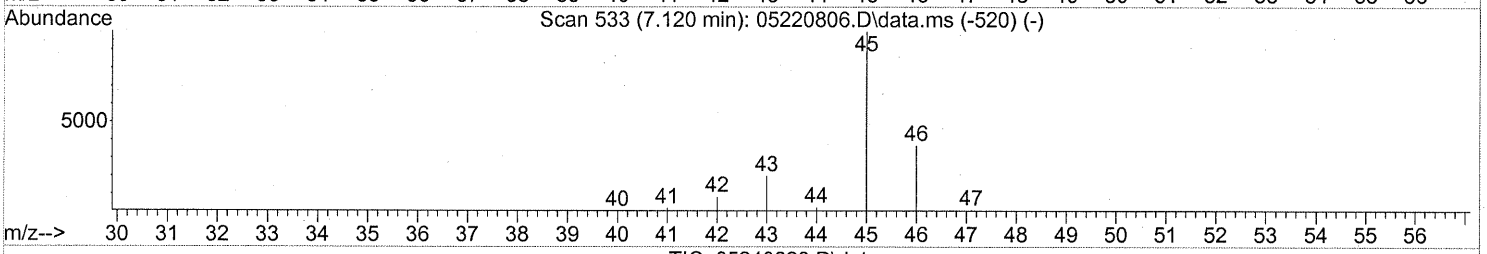

TIC: 05240823.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 2.80ng m

response 82195

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.82
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

JDA 5/29/08

WDS 5/30/08

878

Quantitation Report (Qedit)

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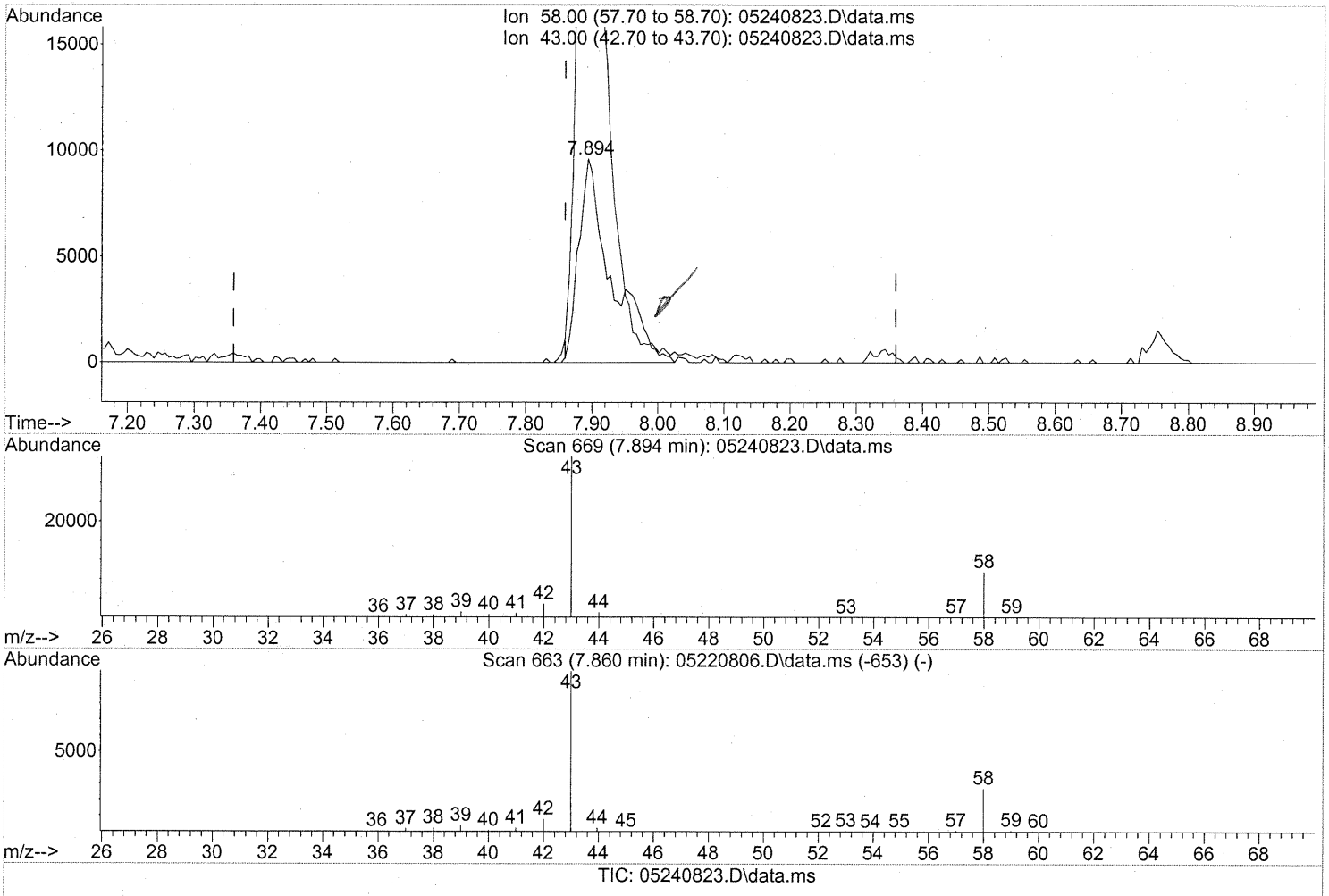
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 1.10ng

response 33034

interf. shoulder

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	286.96
0.00	0.00	0.00
0.00	0.00	0.00

879

Quantitation Report (Qedit)

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Quant Time: May 25 09:06:13 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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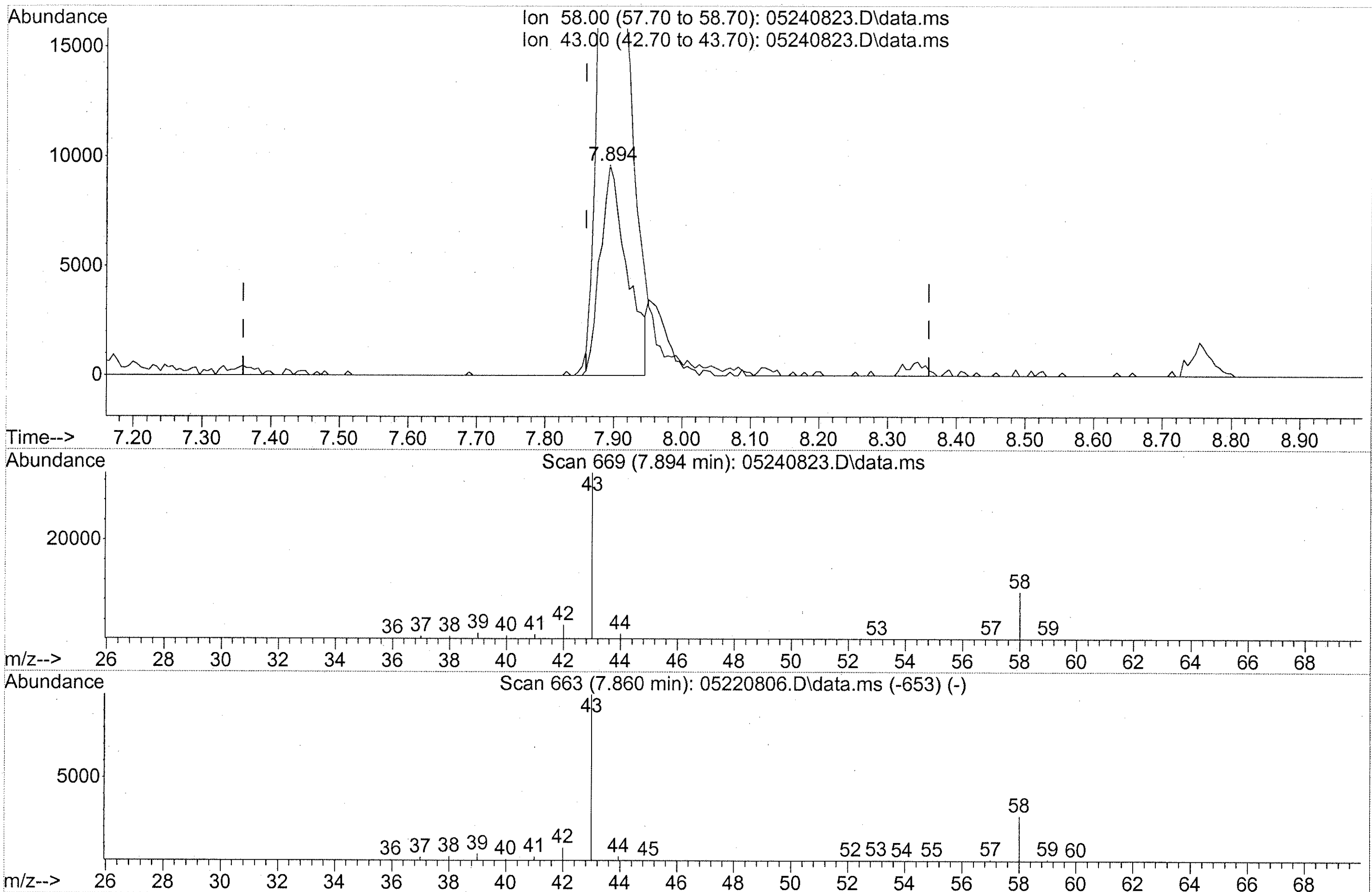
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 0.87ng m

response 26131

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	362.76#
0.00	0.00	0.00
0.00	0.00	0.00

M/o. shoulder

[illegible] 5/29/08

W+ 5/30/08

880

Quantitation Report (Qedit)

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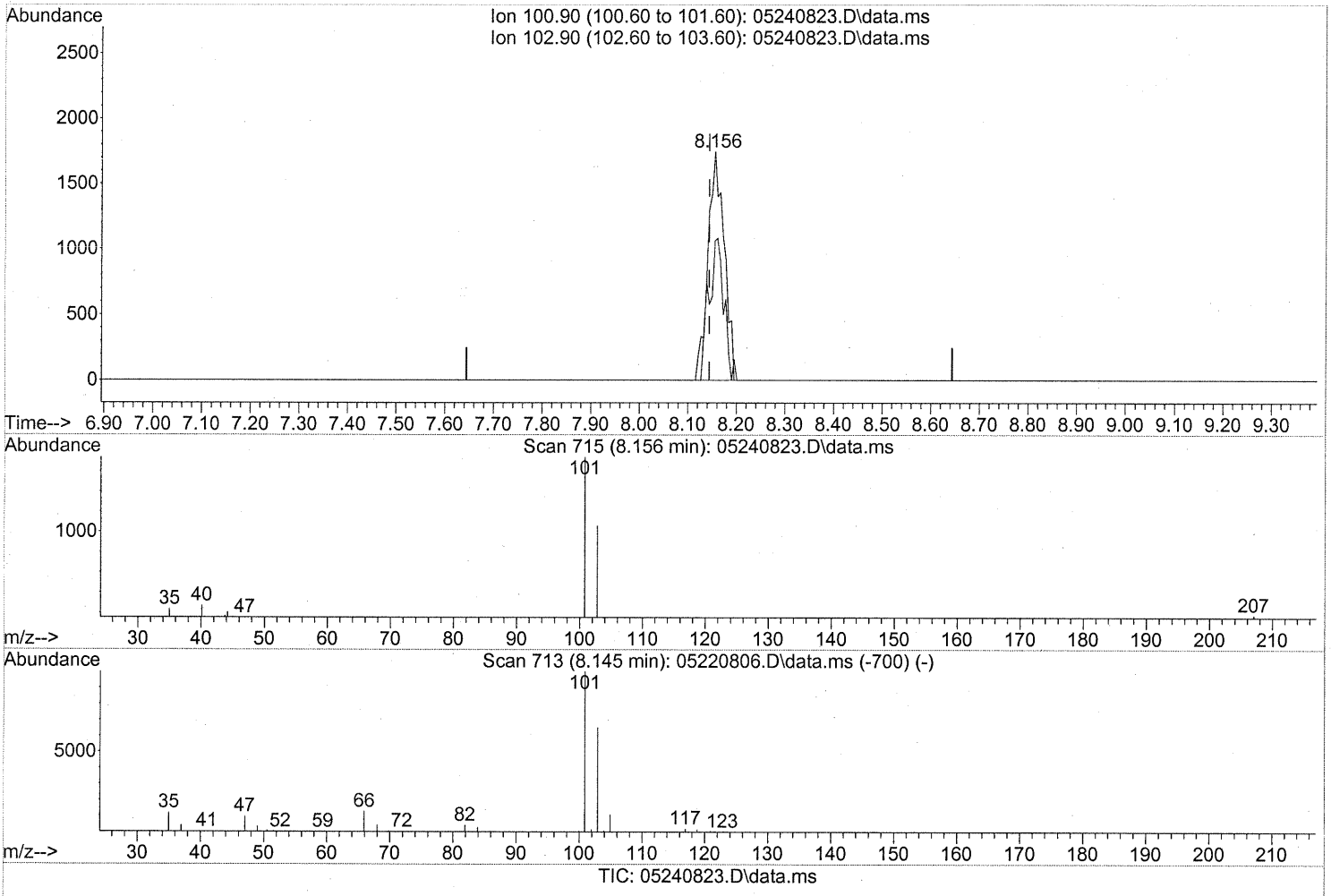

(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.06ng

response 4034

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	57.73
0.00	0.00	0.00
0.00	0.00	0.00

881

Quantitation Report (Qedit)

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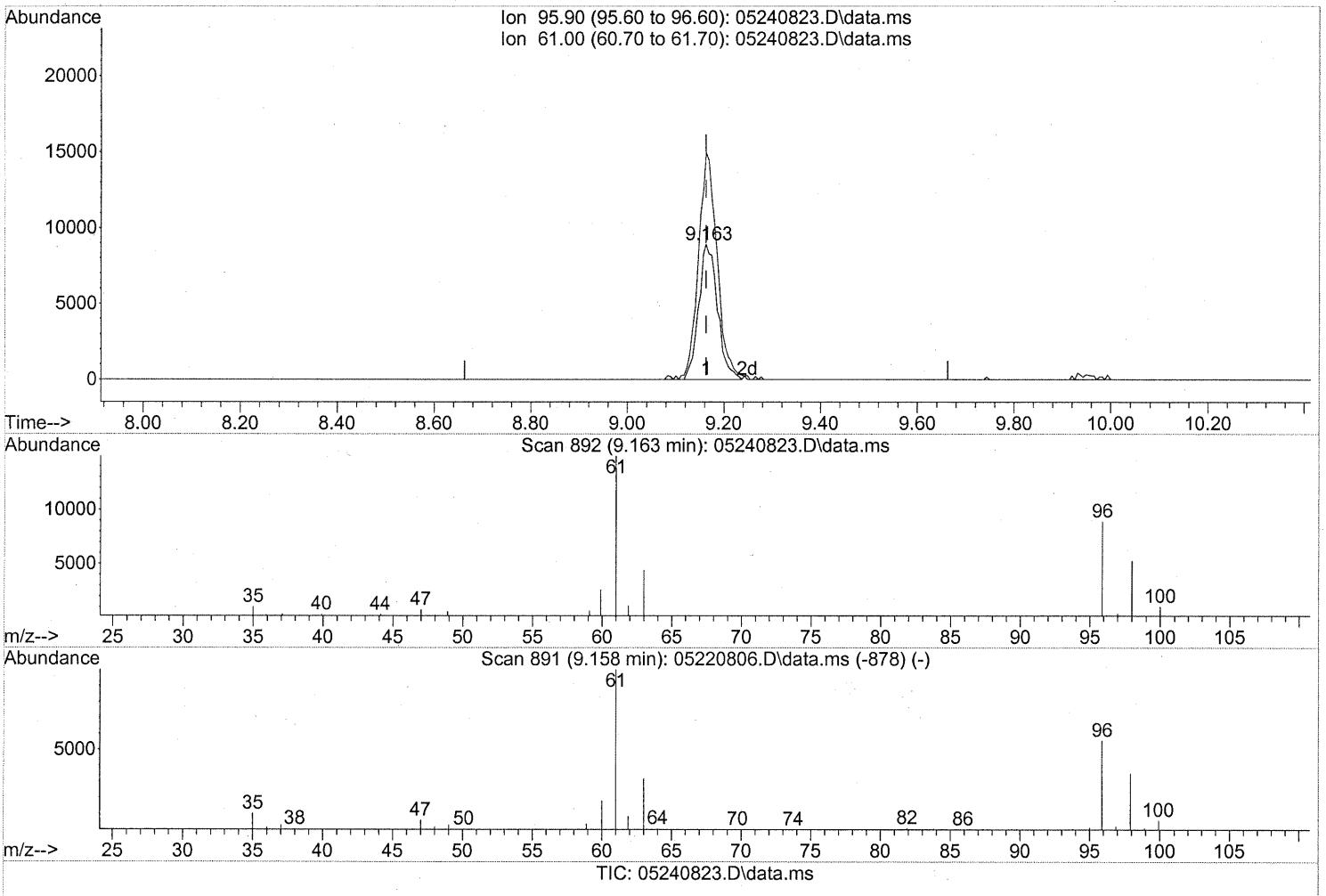
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.78ng

response 23957

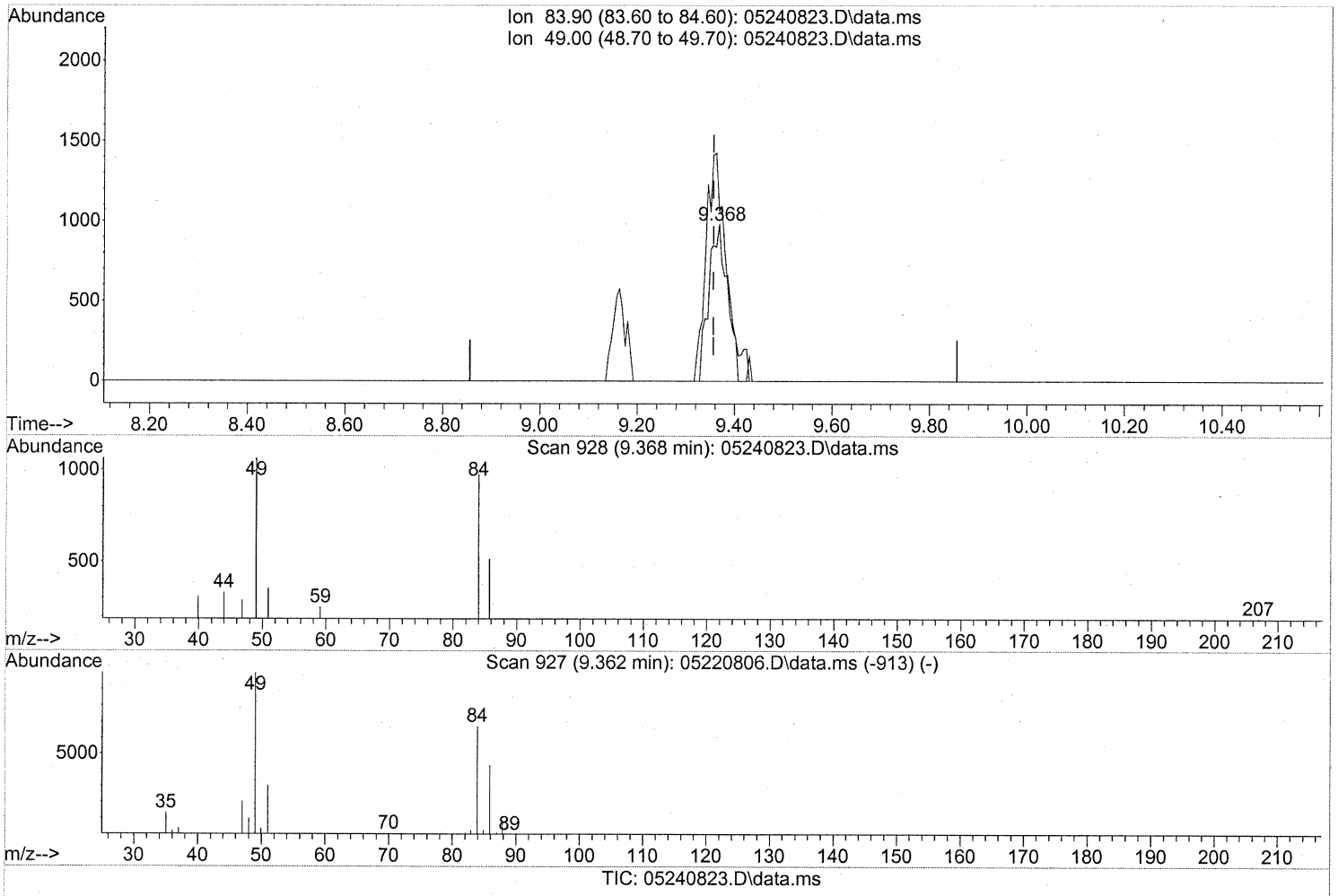
Ion	Exp%	Act%
95.90	100	100
61.00	210.00	167.41#
0.00	0.00	0.00
0.00	0.00	0.00

882

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(19) Methylene Chloride (T)

9.368min (+0.011) 0.09ng

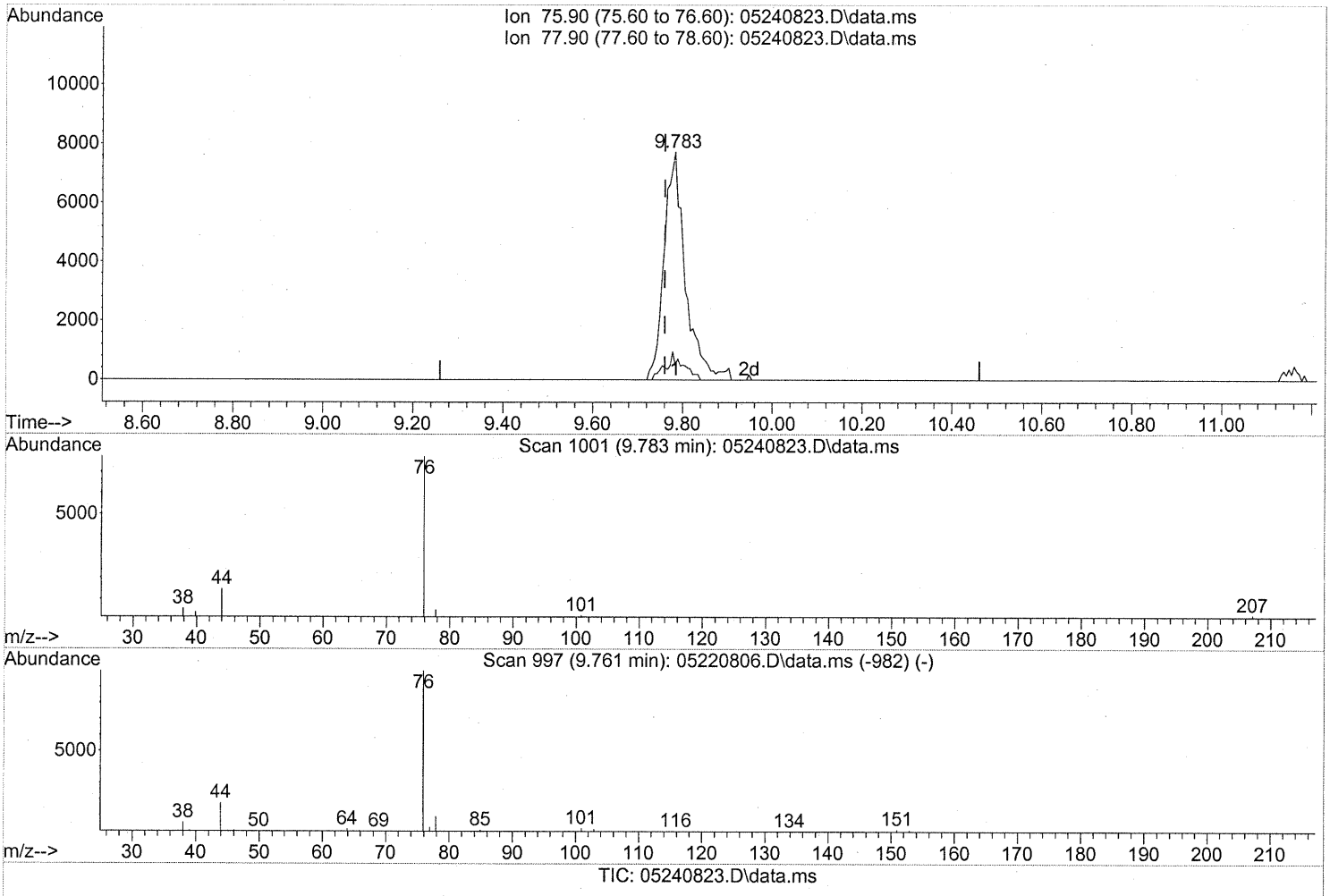
response 2894

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	133.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(22) Carbon Disulfide (T)

9.783min (+0.023) 0.20ng

response 25300

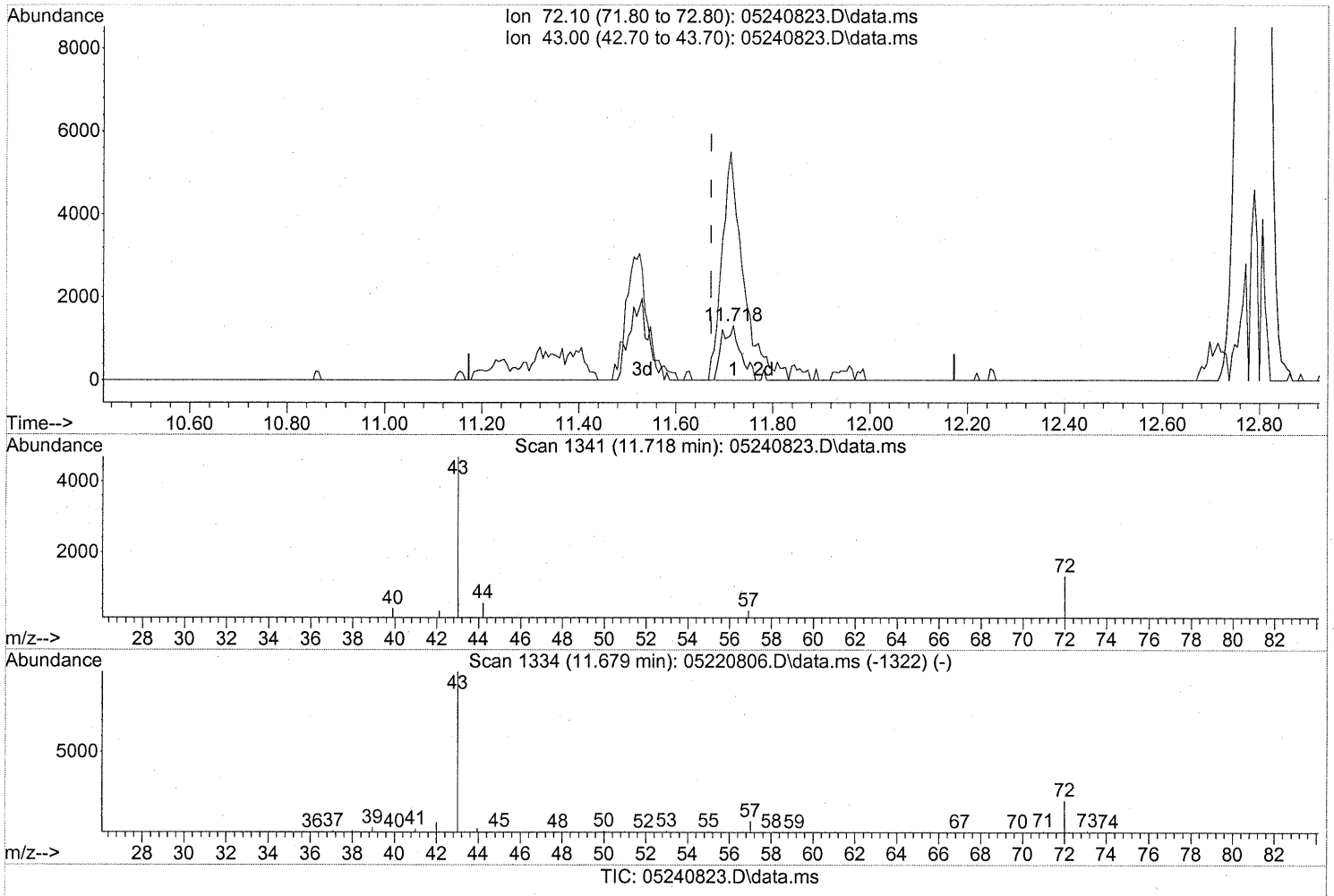
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.88
0.00	0.00	0.00
0.00	0.00	0.00

884

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(27) 2-Butanone (T)

11.718min (+0.045) 0.16ng

response 3523

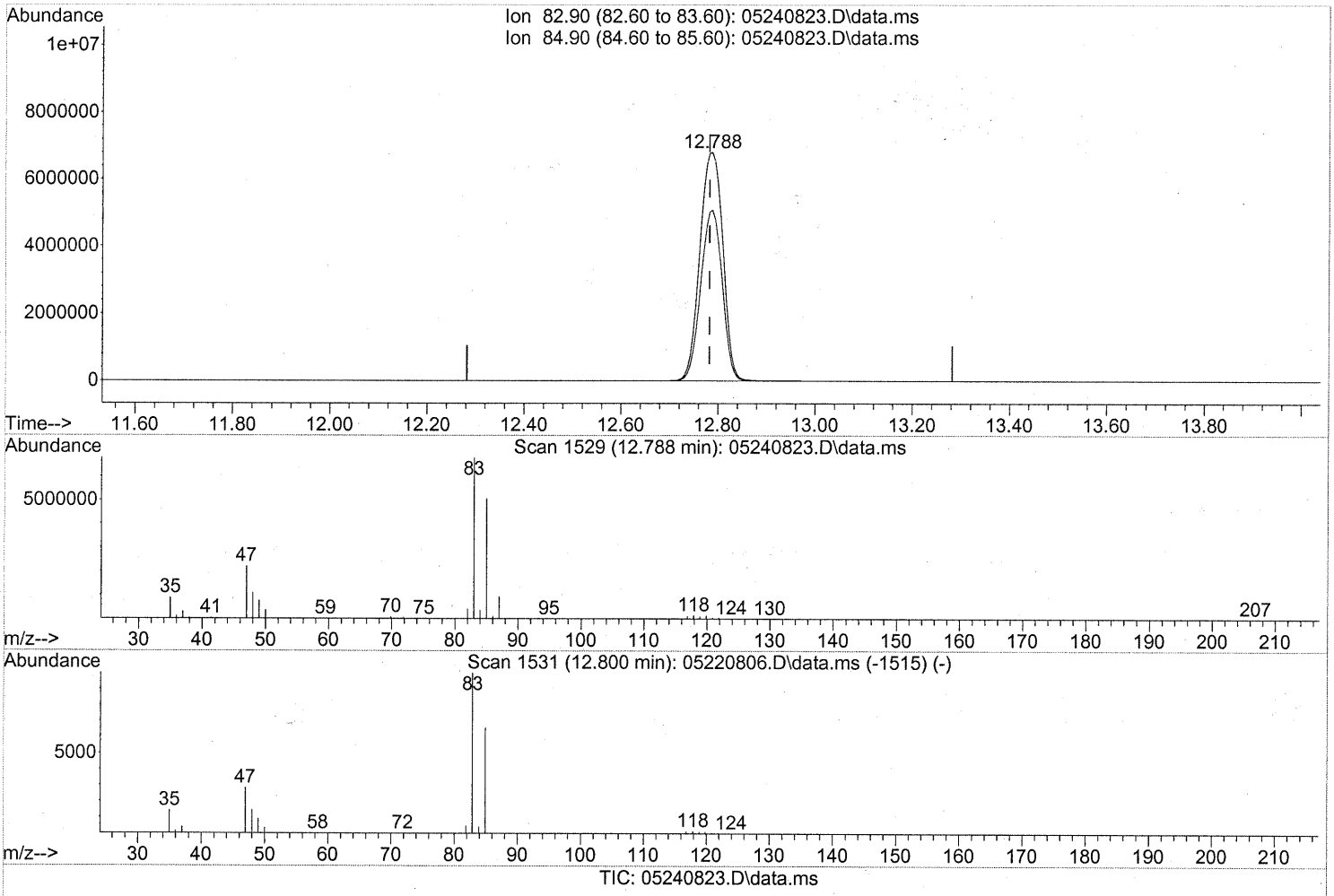
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	468.15#
0.00	0.00	0.00
0.00	0.00	0.00

885

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(32) Chloroform (T)

12.788min (+0.006) 439.13ng

response 22361207

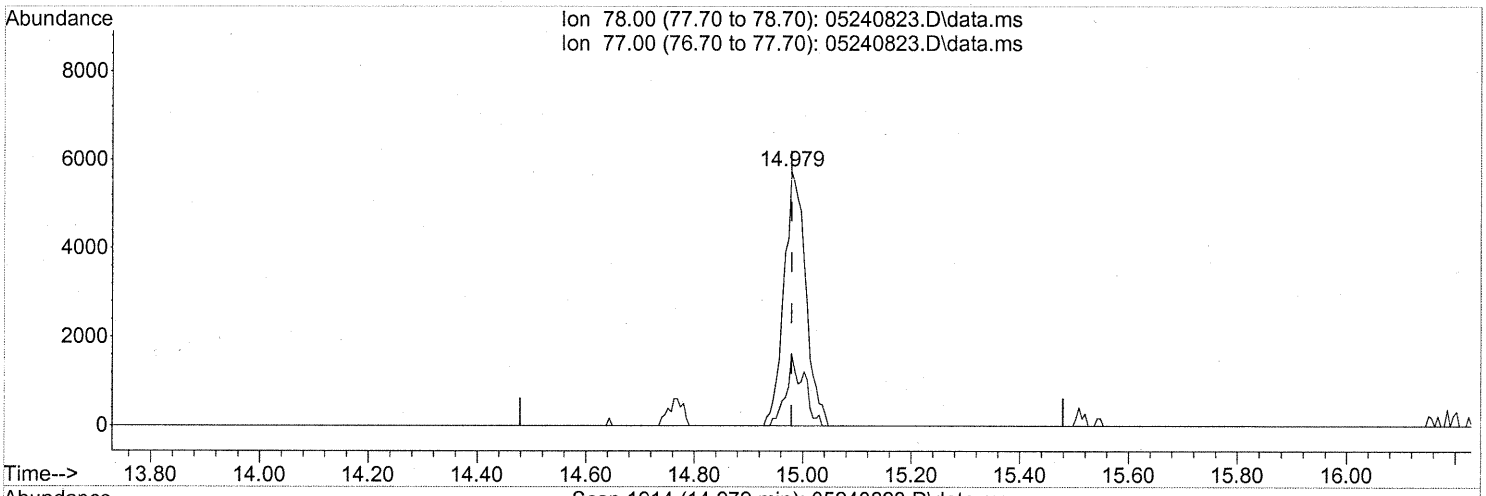
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	69.85
0.00	0.00	0.00
0.00	0.00	0.00

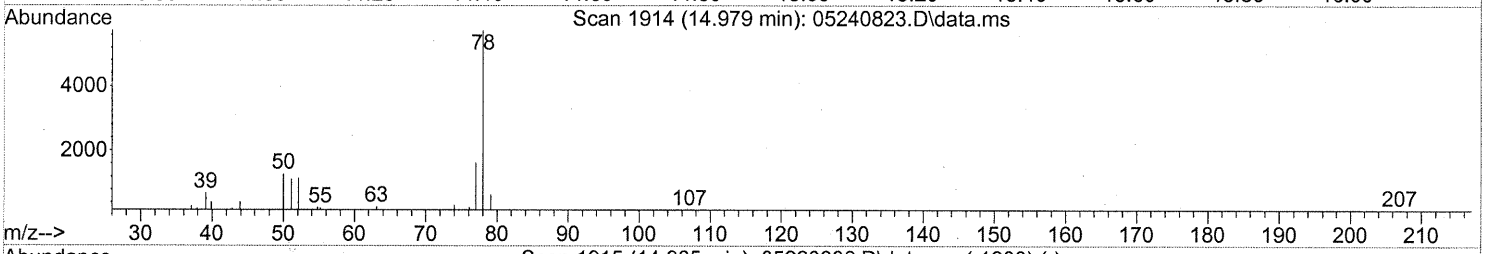
886

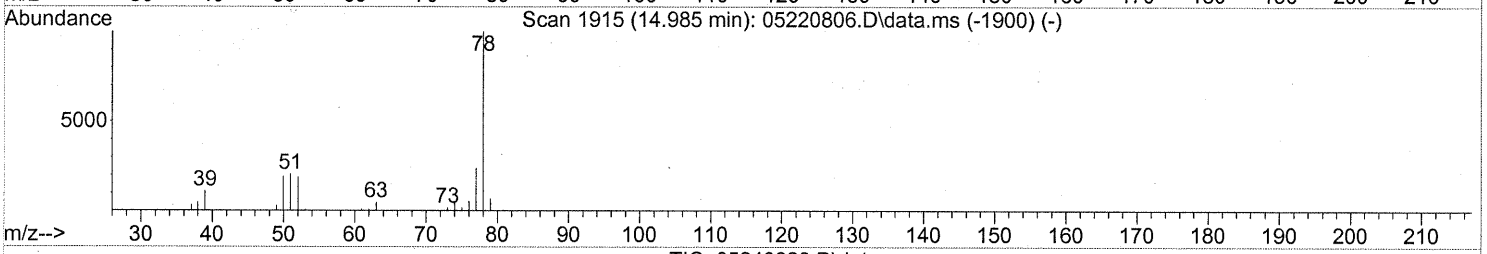
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240823.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 0.13ng

response 15864

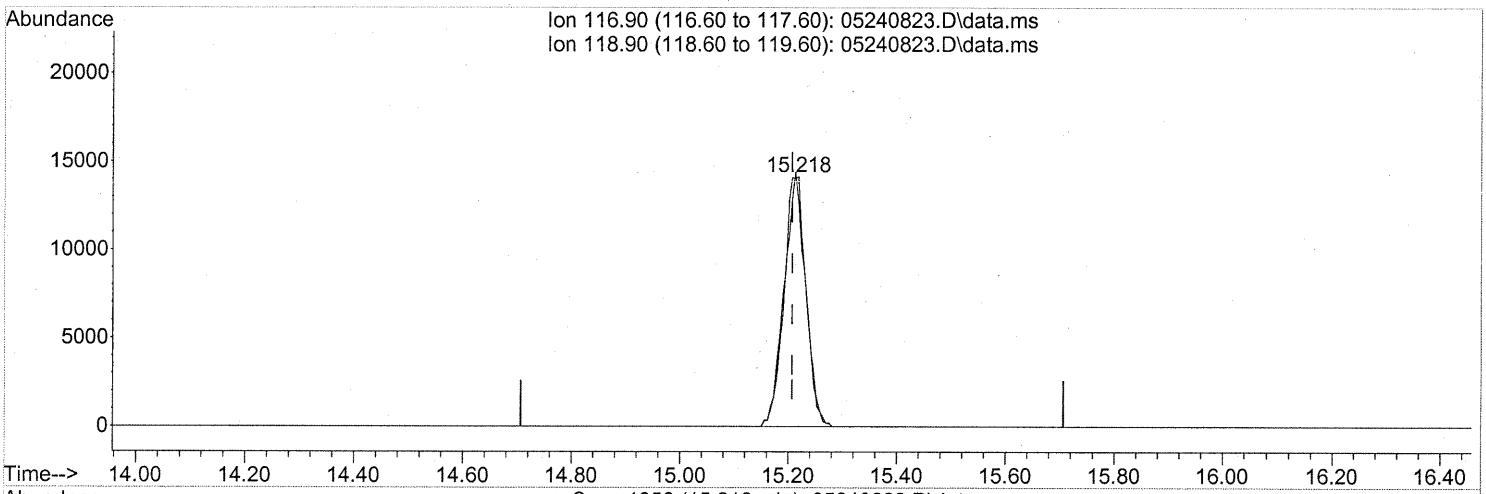
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.06
0.00	0.00	0.00
0.00	0.00	0.00

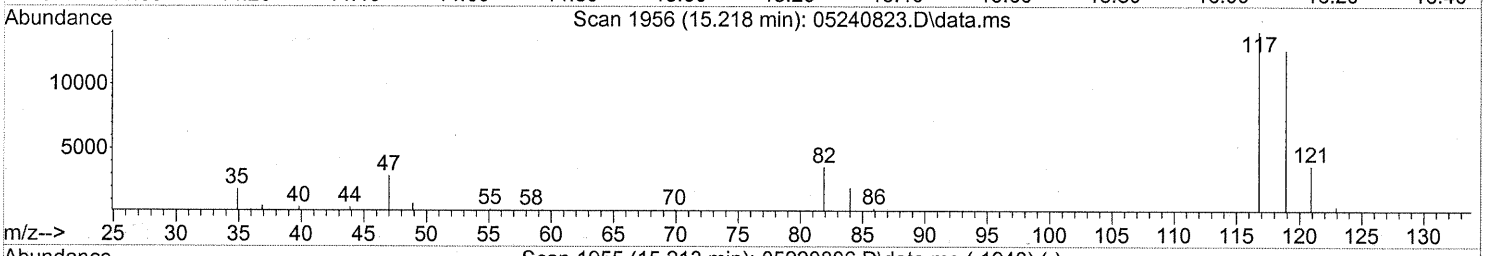
887

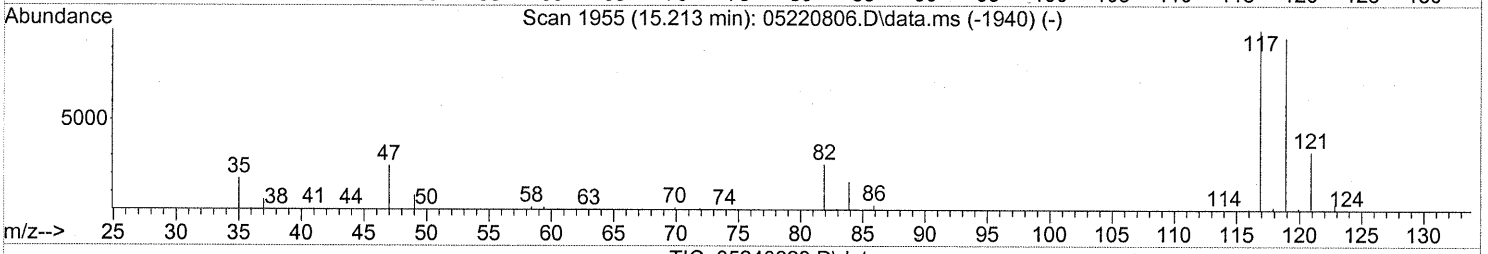
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240823.D\data.ms

(42) Carbon Tetrachloride (T)

15.218min (+0.011) 0.86ng

response 40835

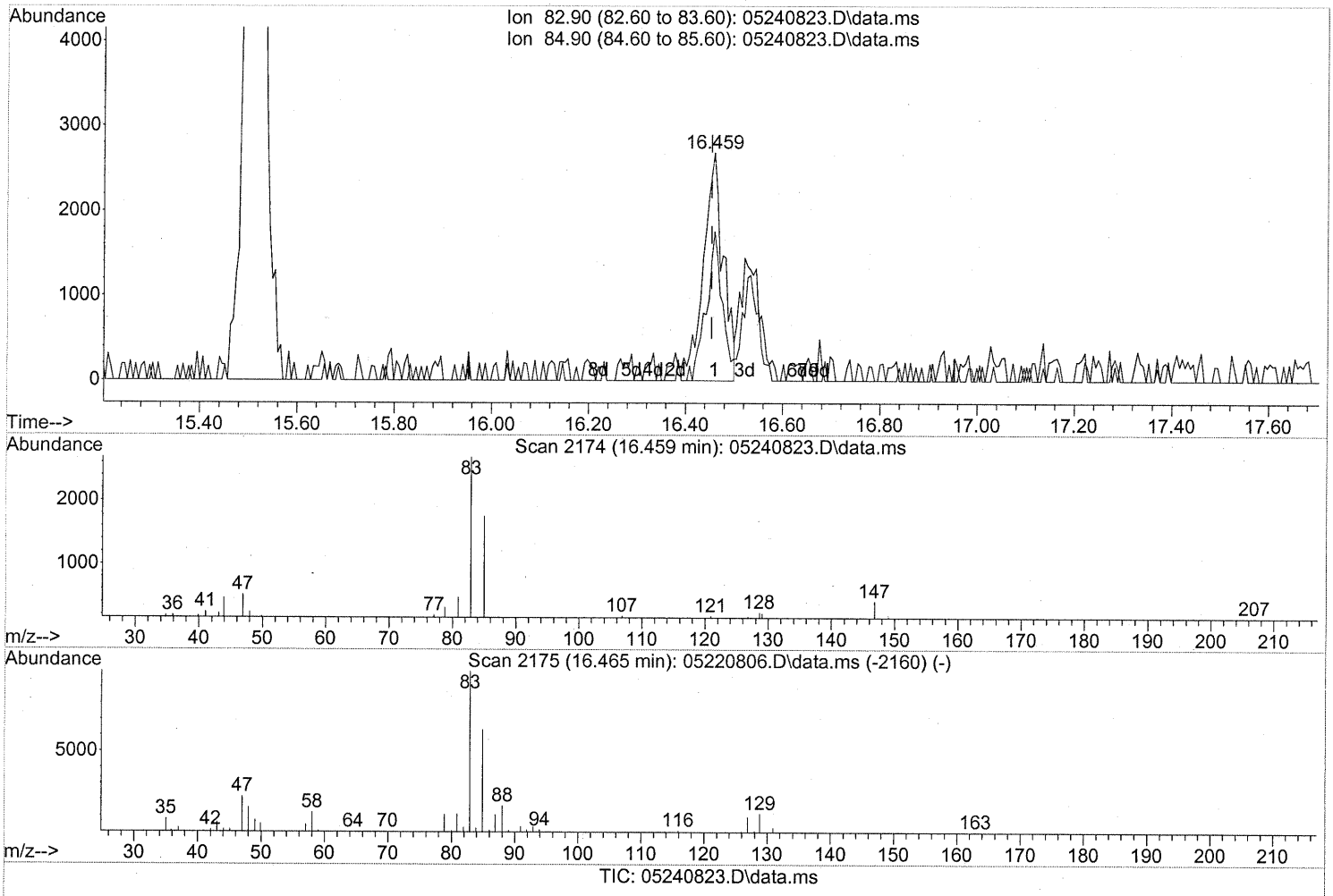
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	93.56
0.00	0.00	0.00
0.00	0.00	0.00

888

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(46) Bromodichloromethane (T)

16.459min (+0.006) 0.18ng

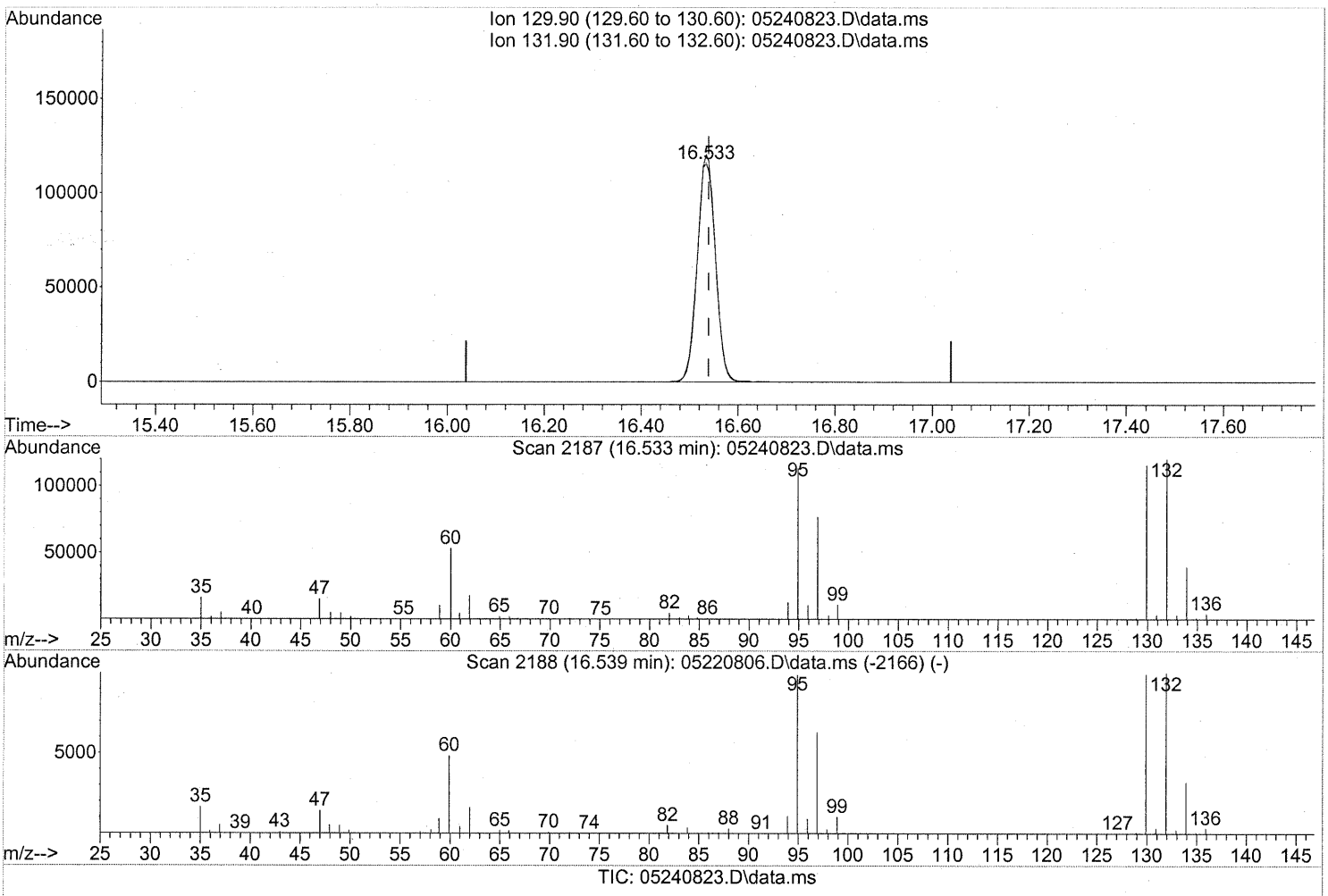
response 7556

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	54.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 8.10ng

response 306544

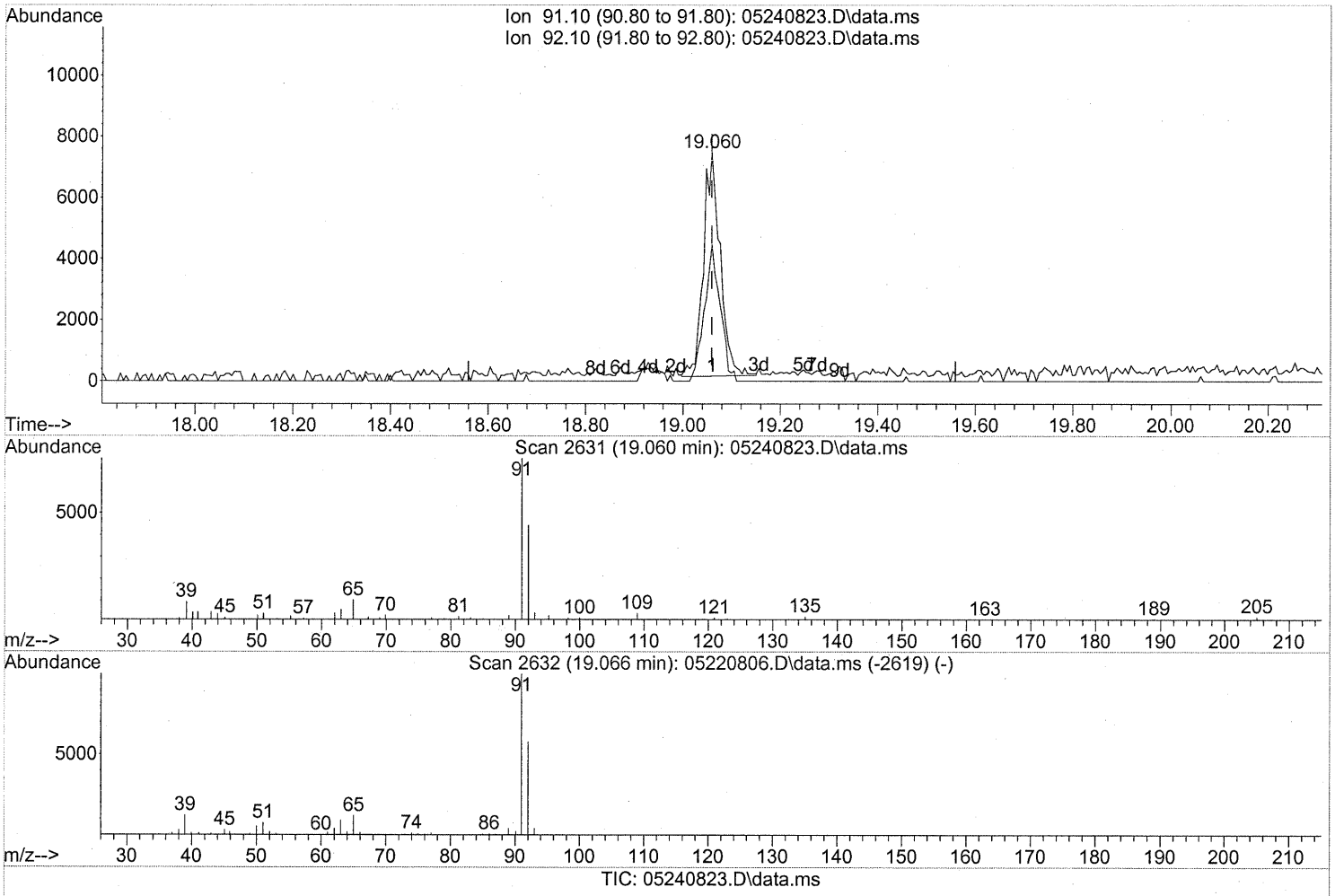
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.36
0.00	0.00	0.00
0.00	0.00	0.00

890

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.13ng

response 17504

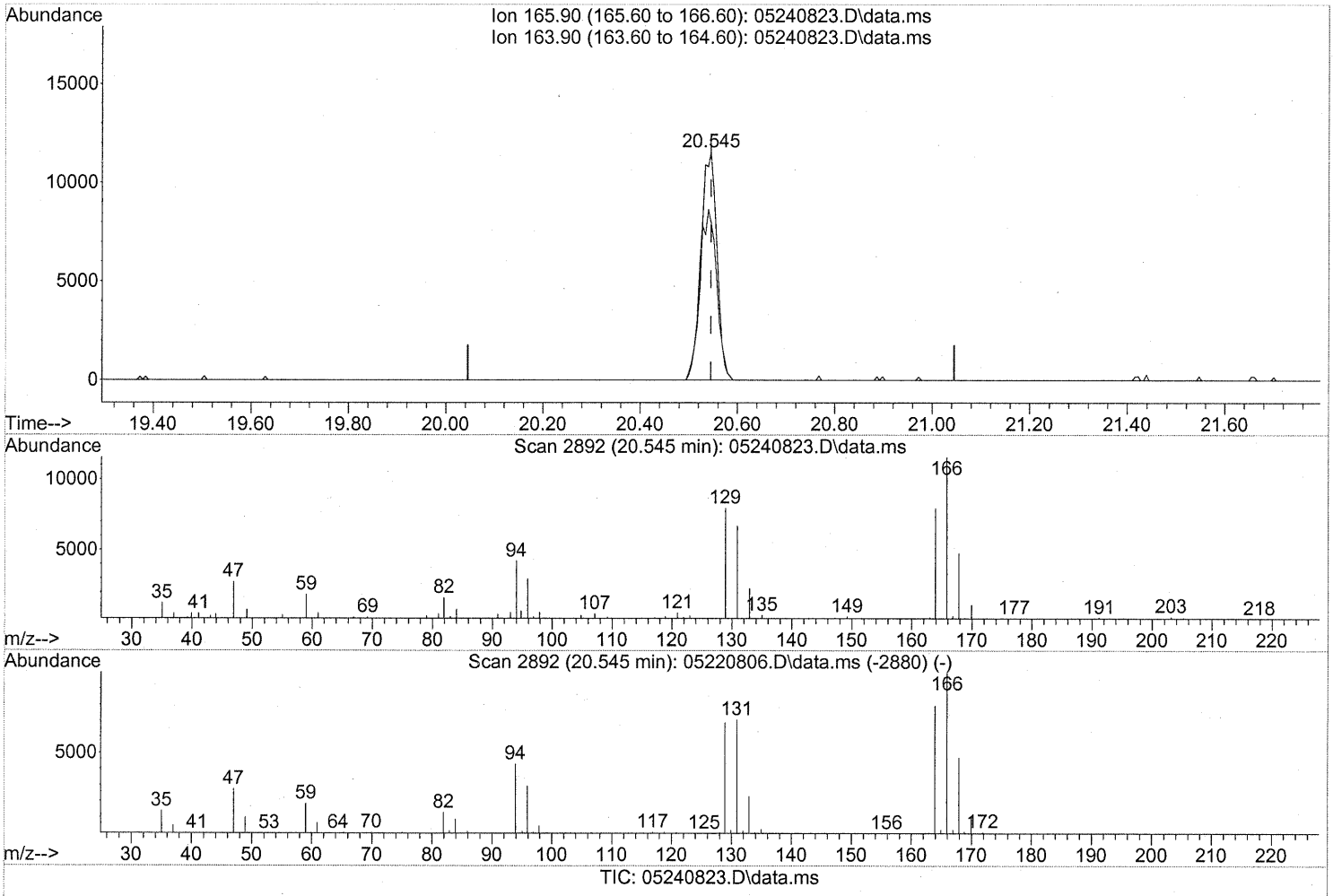
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.12
0.00	0.00	0.00
0.00	0.00	0.00

891

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 21:39:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240823.D\data.ms

(64) Tetrachloroethene (T)

20.545min (-0.000) 0.68ng

response 26131

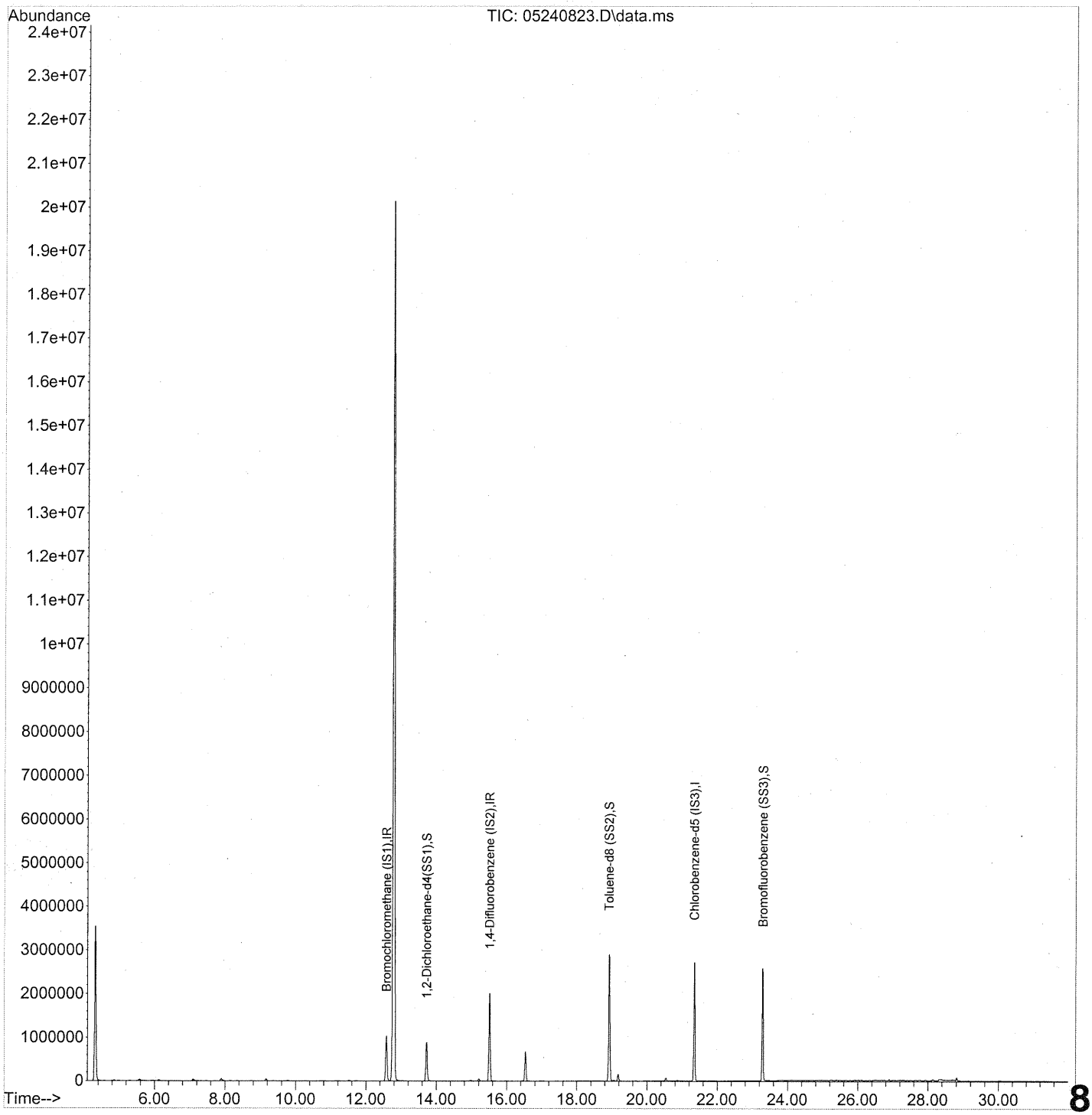
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.25
0.00	0.00	0.00
0.00	0.00	0.00

892

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 25 20:37:30 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



893

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240823.D
Acq On : 24 May 2008 22:16
Operator : WA
Sample : P0801442-018 (75ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 20 Sample Multiplier: 1

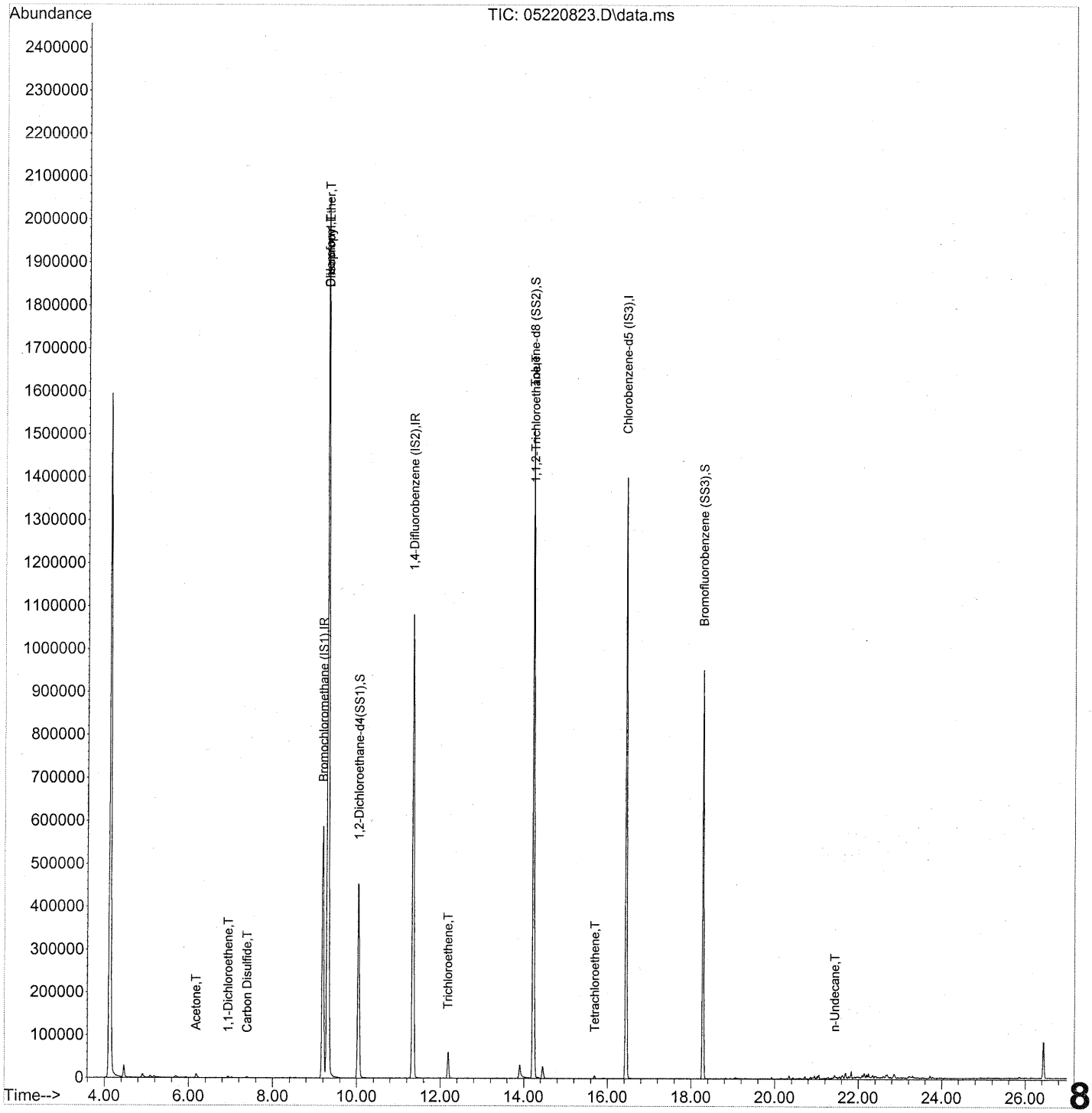
Quant Time: May 25 20:37:30 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	558421	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	2357400	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	1070709	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	884174	22.851	ng	-0.02
Spiked Amount 25.000			Recovery = 91.40%			
5) Toluene-d8 (SS2)	18.92	98	2454457	25.525	ng	-0.02
Spiked Amount 25.000			Recovery = 102.08%			
6) Bromofluorobenzene (SS3)	23.29	174	993968	25.419	ng	0.00
Spiked Amount 25.000			Recovery = 101.68%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	660	N.D.		
8) n-Butylbenzene	25.95	91	922	N.D.		

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

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220823.D
Acq On : 22 May 2008 23:18
Operator : WA
Sample : P0801442-018 Dil (15ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 23 06:37:21 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220823.D
Acq On : 22 May 2008 23:18
Operator : WA
Sample : P0801442-018 Dil (15ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 23 06:37:21 2008
Quant Method : J:\MS16\METHODS\R16051208.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	275771	25.000 ng	-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1188439	25.000 ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	466565	25.000 ng	-0.01
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	10.04	65	421466	21.673 ng	-0.05
Spiked Amount 25.000			Recovery =	86.68%	
57) Toluene-d8 (SS2)	14.22	98	1208640	26.310 ng	-0.02
Spiked Amount 25.000			Recovery =	105.24%	
73) Bromofluorobenzene (SS3)	18.28	174	327401	27.384 ng	-0.01
Spiked Amount 25.000			Recovery =	109.52%	
Target Compounds					Qvalue
2) Propene	4.47	42	441	N.D.	
3) Dichlorodifluoromethane	4.55	85	201	N.D.	
4) Chloromethane	4.74	50	791	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	5.77	45	105	N.D.	
11) Acetonitrile	5.94	41	1604	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) Acetone	6.18	58	5152	0.283 ng #	56
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	6.94	96	1761	0.133 ng	96
18) tert-Butanol	0.00	59	0	N.D.	
19) Methylene Chloride	7.03	84	352	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	3703	0.068 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	221660	18.553 ng #	1
30) Ethyl Acetate	0.00	61	0	N.D.	
31) n-Hexane	0.00	57	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220823.D
Acq On : 22 May 2008 23:18
Operator : WA
Sample : P0801442-018 Dil (15ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 23 06:37:21 2008
Quant Method : J:\MS16\METHODS\R16051208.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	9.31	83	2058578	100.108	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	1457	N.D.			
42) Carbon Tetrachloride	11.17	117	690	N.D.			
43) Cyclohexane	11.32	84	1145	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	12.14	83	124	N.D.			
47) Trichloroethene	12.19	130	28781	1.794	ng		99
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	103224	7.301	ng	#	7
58) Toluene	14.35	91	2158	N.D.			
59) 2-Hexanone	14.46	43	774	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	0.00	43	0	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.69	166	2511	0.181	ng		98
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	92	N.D.			
67) m- & p-Xylene	0.00	91	0	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	0.00	91	0	N.D.			
71) n-Nonane	0.00	43	0	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.29	105	196	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	0.00	105	0	N.D.			
78) 4-Ethyltoluene	0.00	105	0	N.D.			
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.			

897

DA 5/30/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220823.D
Acq On : 22 May 2008 23:18
Operator : WA
Sample : P0801442-018 Dil (15ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 23 06:37:21 2008
Quant Method : J:\MS16\METHODS\R16051208.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

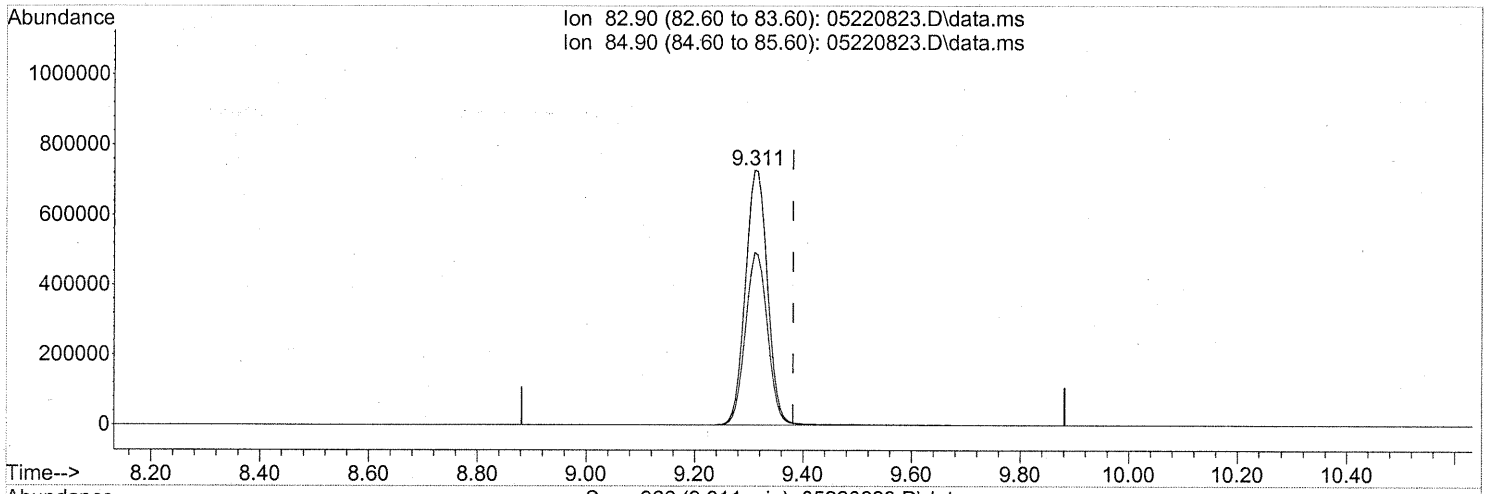
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.			
81) 2-Ethyltoluene	0.00	105	0	N.D.			
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.			
83) n-Decane	19.92	57	1151	N.D.			
84) Benzyl Chloride	0.00	91	0	N.D.			
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.			
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.			
87) sec-Butylbenzene	0.00	105	0	N.D.			
88) p-Isopropyltoluene	0.00	119	0	N.D.			
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.			
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.			
91) d-Limonene	0.00	68	0	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.43	57	3260	0.070	ng	#	64
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.69	128	1976	N.D.			
96) n-Dodecane	22.66	57	1512	N.D.			
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.			

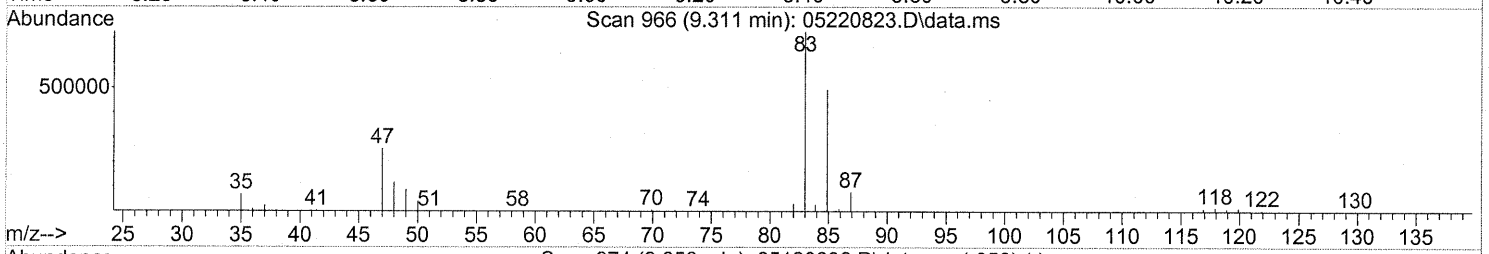
(#) = qualifier out of range (m) = manual integration (+) = signals summed

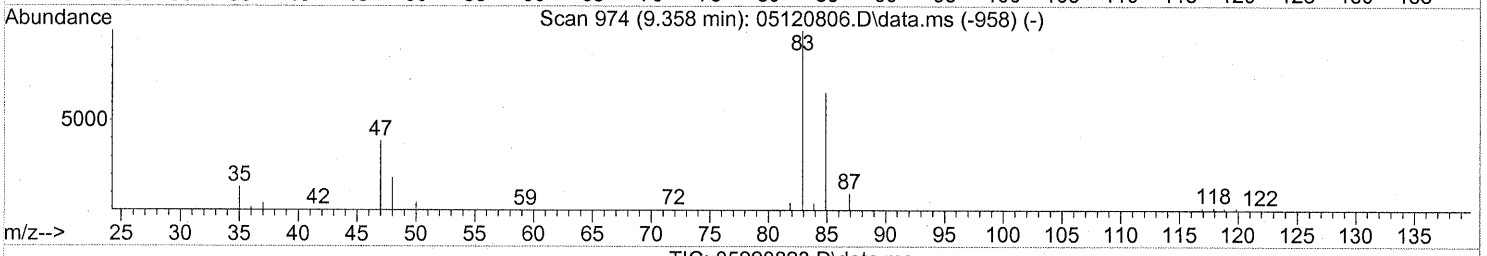
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220823.D
Acq On : 22 May 2008 23:18
Operator : WA
Sample : P0801442-018 Dil (15ml)
Misc : ENSR SG75B-05 (-3.6, 3.5)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 23 06:37:21 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220823.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 100.11ng

response 2058578

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.61
0.00	0.00	0.00
0.00	0.00	0.00

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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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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**	**0.22**	5.0	0.073	**0.094**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	**V**
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **Method Blank** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080521-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: 5/21/08
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	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: Re Date: 6/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

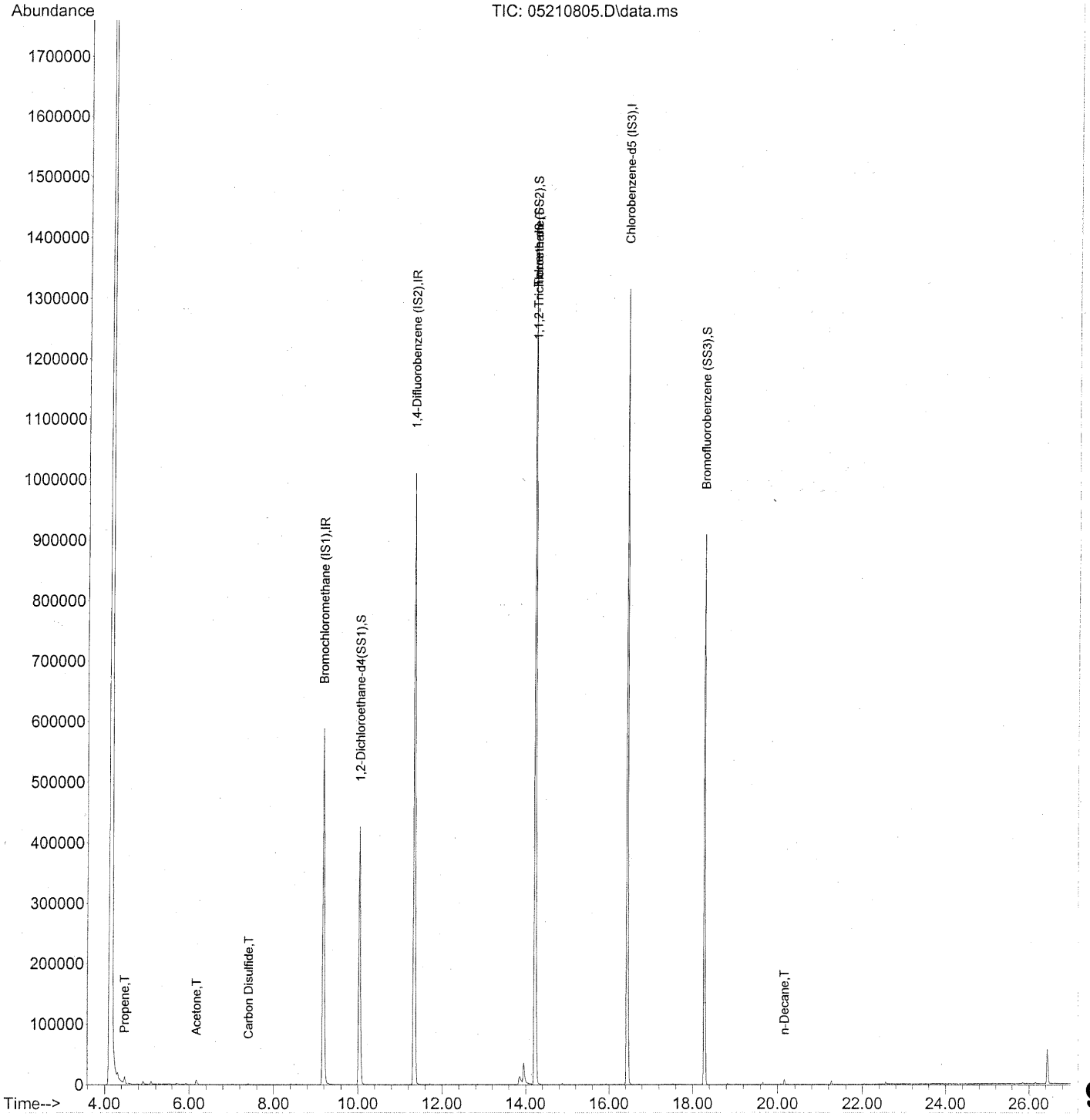
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	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	V
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	V
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	V

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.
V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: RC Date: 6/2/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210805.D
Acq On : 21 May 2008 10:37 am
Operator : WA
Sample : CAS CAN QC2 5/20/08 (1000ml) as MB
Misc : SC00699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 11:22:39 2008
Quant Method : J:\MS16\METHODS\R16051208.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



903

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210805.D
Acq On : 21 May 2008 10:37 am
Operator : WA
Sample : CAS CAN QC2 5/20/08 (1000ml) as MB
Misc : SC00699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 11:22:39 2008
Quant Method : J:\MS16\METHODS\R16051208.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	265459	25.000	ng		-0.07
37) 1,4-Difluorobenzene (IS2)	11.34	114	1108808	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	433704	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	394684	21.084	ng		-0.05
Spiked Amount 25.000			Recovery =	84.32%			
57) Toluene-d8 (SS2)	14.22	98	1131942	26.507	ng		-0.02
Spiked Amount 25.000			Recovery =	106.04%			
73) Bromofluorobenzene (SS3)	18.28	174	309545	27.852	ng		-0.01
Spiked Amount 25.000			Recovery =	111.40%			
Target Compounds							Qvalue
2) Propene	4.47	42	1492	0.056	ng	#	17
3) Dichlorodifluoromethane	4.56	85	108	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	5.77	45	99	N.D.			
11) Acetonitrile	5.93	41	2352	N.D.			
12) Acrolein	6.05	56	117	N.D.			
13) Acetone	6.18	58	3906	0.223	ng	#	85
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	6.98	59	770	N.D.			
19) Methylene Chloride	7.04	84	423	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	2820	0.054	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	8.42	72	91	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.			

904

5/30/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210805.D
Acq On : 21 May 2008 10:37 am
Operator : WA
Sample : CAS CAN QC2 5/20/08 (1000ml) as MB
Misc : SC00699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 11:22:39 2008
Quant Method : J:\MS16\METHODS\R16051208.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	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	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	0.00	78	0	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	11.33	84	244	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	14.23	97	95873	~~7.268 ng~~ NR #	7
58) Toluene	14.35	91	191	N.D.	
59) 2-Hexanone	14.87	43	245	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	0.00	43	0	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) Ethylbenzene	0.00	91	0	N.D.	
67) m- & p-Xylene	0.00	91	0	N.D.	
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	0.00	104	0	N.D.	
70) o-Xylene	0.00	91	0	N.D.	
71) n-Nonane	0.00	43	0	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	18.28	105	96	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	0.00	91	0	N.D.	
77) 3-Ethyltoluene	18.88	105	358	N.D.	
78) 4-Ethyltoluene	18.88	105	358	N.D.	
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	

905

DF 5/30/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210805.D
Acq On : 21 May 2008 10:37 am
Operator : WA
Sample : CAS CAN QC2 5/20/08 (1000ml) as MB
Misc : SC00699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 11:22:39 2008
Quant Method : J:\MS16\METHODS\R16051208.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

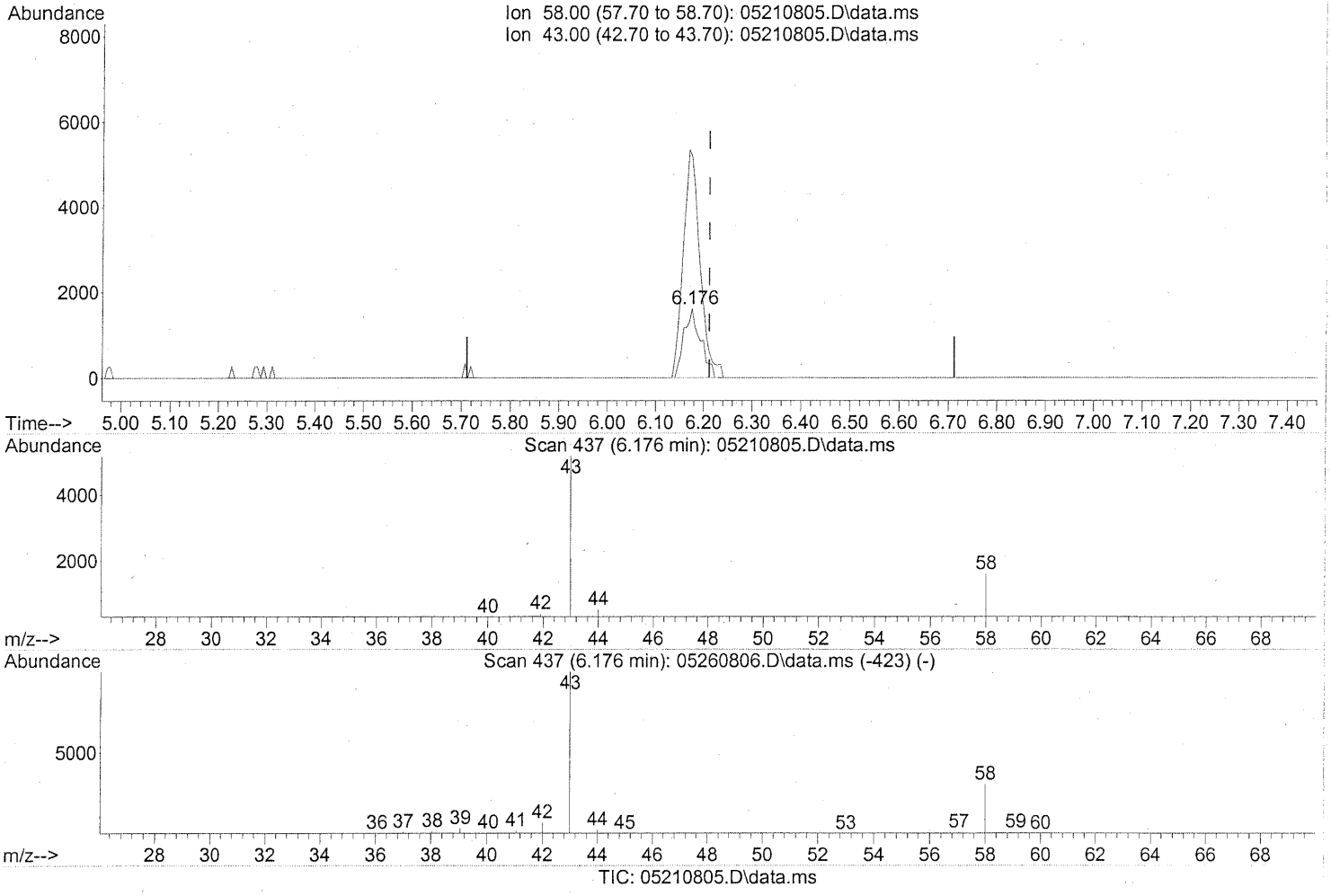
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	0.00	105	0	N.D.	
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.	
83) n-Decane	20.16	57	4656	0.112 ng #	41
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
87) sec-Butylbenzene	0.00	105	0	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
91) d-Limonene	0.00	68	0	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	21.27	57	1286	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	376	N.D.	
96) n-Dodecane	22.55	57	568	N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	

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

906

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210805.D
Acq On : 21 May 2008 10:37 am
Operator : WA
Sample : CAS CAN QC2 5/20/08 (1000ml) as MB
Misc : SC00699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 21 11:22:39 2008
Quant Method : J:\MS16\METHODS\R16051208.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



(13) Acetone (T)

6.176min (-0.036) 0.22ng

response 3906

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	334.46#
0.00	0.00	0.00
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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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**	**0.11**	5.0	0.050	**0.061**	2.7	0.027	**J**
67-64-1	**Acetone**	**0.56**	5.0	0.073	**0.24**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	**L, V**
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)**	**0.089**	0.50	0.050	**0.030**	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.
V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.

Verified By: RL Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	L
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.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.

Verified By: RG Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	V

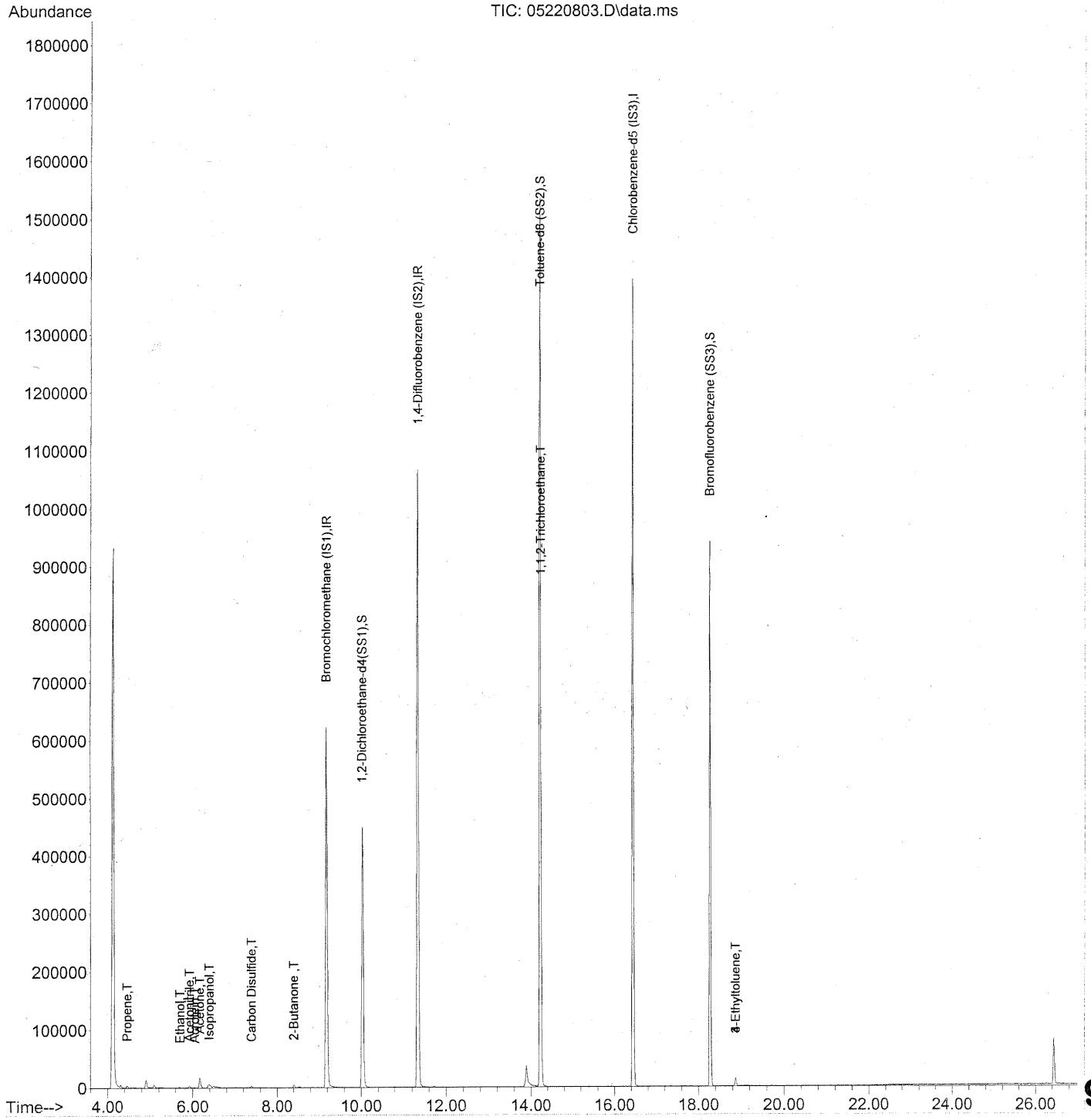
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: RC Date: 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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



911

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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	291099	25.000 ng	-0.07
37) 1,4-Difluorobenzene (IS2)	11.34	114	1200703	25.000 ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	463958	25.000 ng	-0.02

System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	10.03	65	421964	20.556 ng	-0.06
Spiked Amount 25.000				Recovery = 82.24%	✓
57) Toluene-d8 (SS2)	14.22	98	1210764	26.504 ng	-0.02
Spiked Amount 25.000				Recovery = 106.00%	✓
73) Bromofluorobenzene (SS3)	18.28	174	331347	27.870 ng	-0.01
Spiked Amount 25.000				Recovery = 111.48%	✓

Target Compounds						Qvalue
2) Propene	4.46	42	1535	0.053 ng		93
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.	PH 6/2/08	
10) Ethanol	5.71	45	2274	~~0.114 ng~~	yes	70
11) Acetonitrile	5.93	41	4689	0.090 ng	#	62
12) Acrolein	6.05	56	841	0.059 ng		88
13) Acetone	6.17	58	10779	0.560 ng	#	62
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	6.40	45	20271	0.325 ng		92
16) Acrylonitrile	6.61	53	93	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	7.02	59	92	N.D.		
19) Methylene Chloride	7.02	84	91	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	5038	~~0.088 ng~~		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	8.41	72	885	0.089 ng	#	26
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.		

PH 5/22/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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	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	0.00	97	0	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	10.80	56	97	N.D.	
41) Benzene	10.99	78	591	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	11.32	84	958	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	103988	~~7.280 ng~~ NR#	6
58) Toluene	14.35	91	643	N.D.	
59) 2-Hexanone	0.00	43	0	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	0.00	43	0	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) Ethylbenzene	16.94	91	90	N.D.	
67) m- & p-Xylene	17.14	91	190	N.D.	
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	0.00	104	0	N.D.	
70) o-Xylene	0.00	91	0	N.D.	
71) n-Nonane	0.00	43	0	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	18.28	105	332	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	0.00	91	0	N.D.	
77) 3-Ethyltoluene	18.88	105	6963	~~0.103 ng~~ #	44
78) 4-Ethyltoluene	18.88	105	6963	~~0.113 ng~~ NR#	46
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.	

913

DH 5/22/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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	0.00	118	0	N.D.		
81) 2-Ethyltoluene	0.00	105	0	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	20.16	57	322	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.10	146	187	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	187	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.43	57	271	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.70	128	1355	N.D.		
96) n-Dodecane	0.00	57	0	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

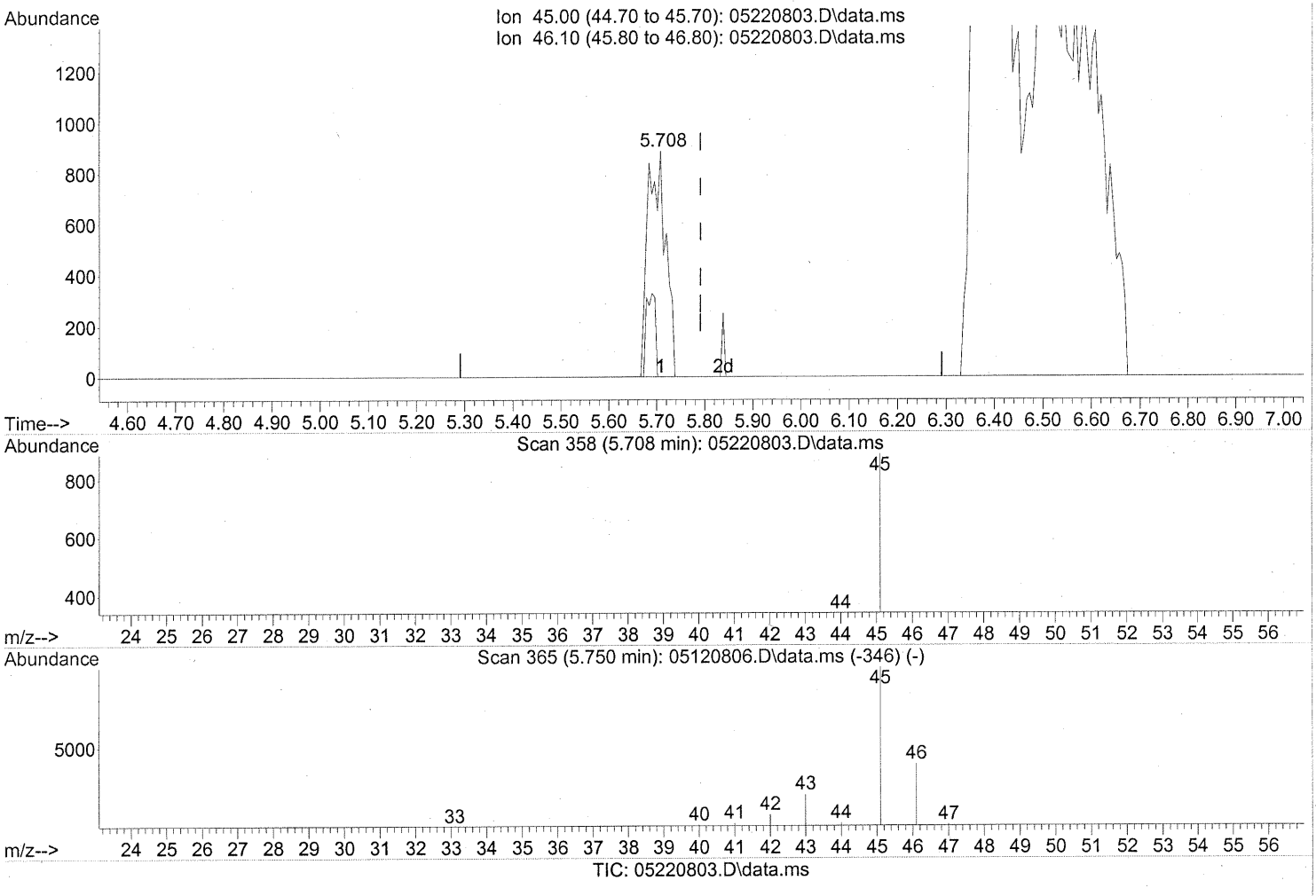
(#) = qualifier out of range (m) = manual integration (+) = signals summed

914

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220803.D\data.ms

(10) Ethanol (T)

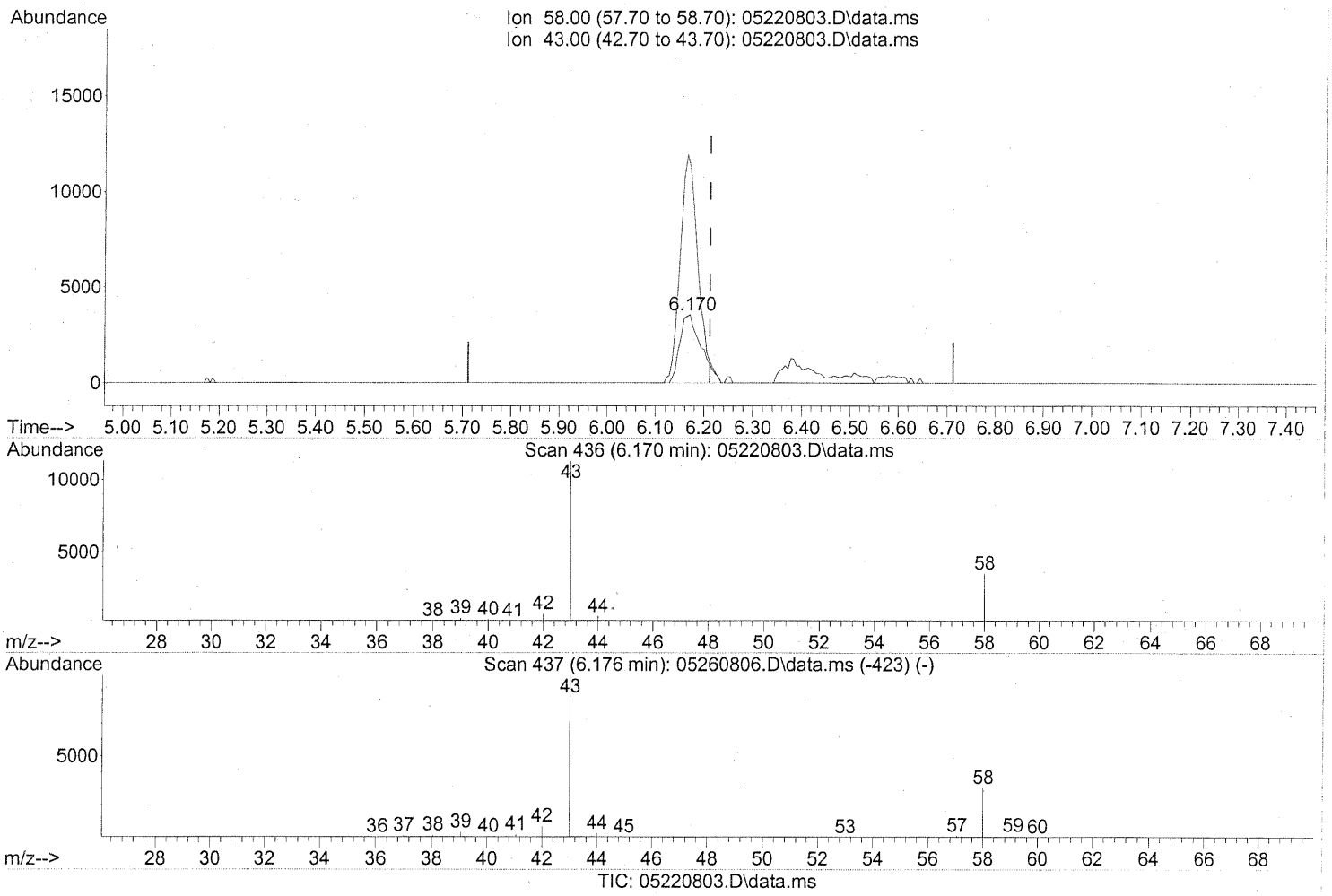
5.708min (-0.083) 0.11ng

response 2274

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	19.17
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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



(13) Acetone (T)

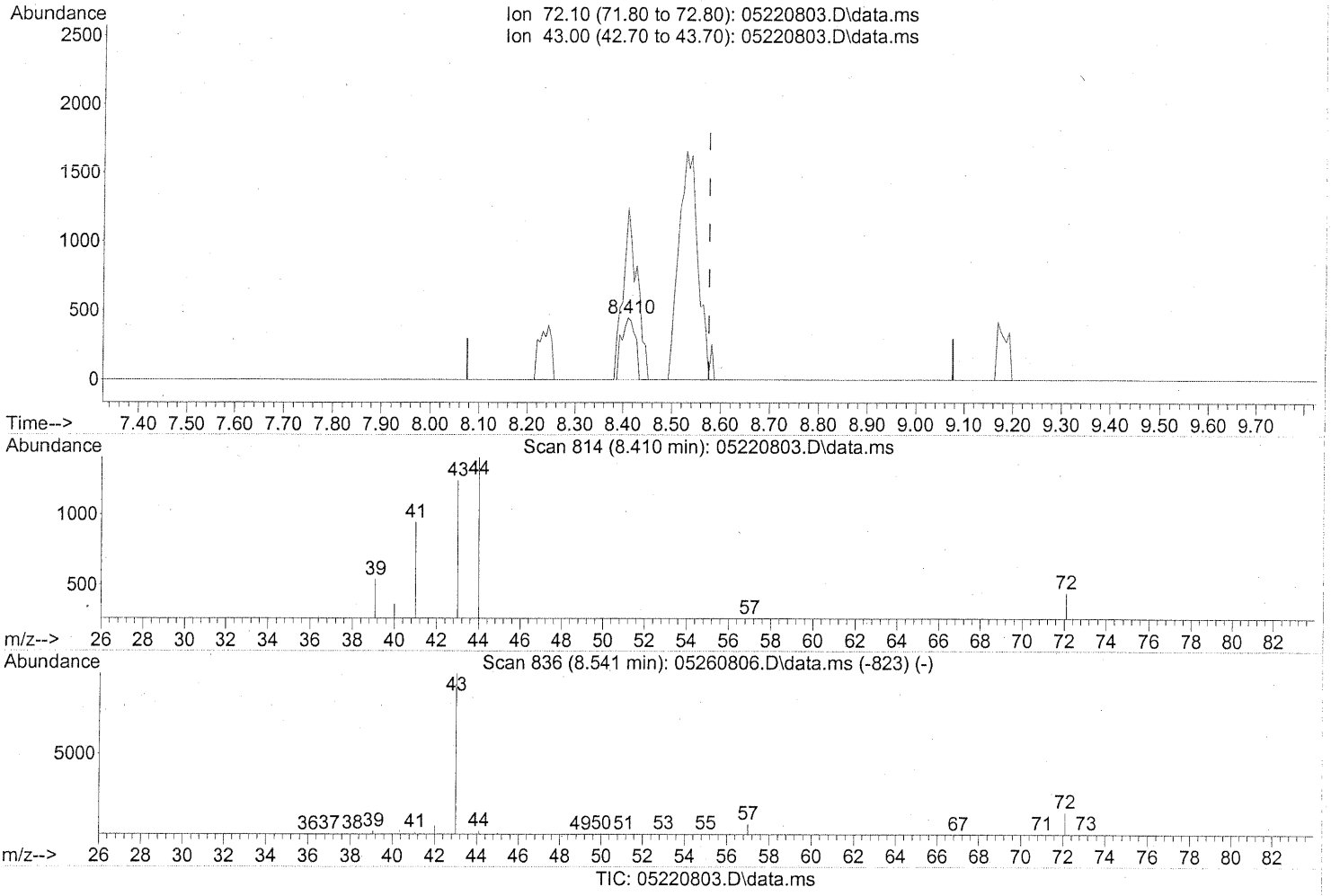
6.170min (-0.042) 0.56ng

response 10779

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	282.20#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 8:28 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05120801
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 14:18:28 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220803.D\data.ms

(27) 2-Butanone (T)

8.410min (-0.166) 0.09ng

response 885

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	290.62#
0.00	0.00	0.00
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: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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**	**0.19**	5.0	0.073	**0.079**	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	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

Verified By: Re, Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
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: RC Date: 6/2/08

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: P0801442
CAS Sample ID: P080524-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

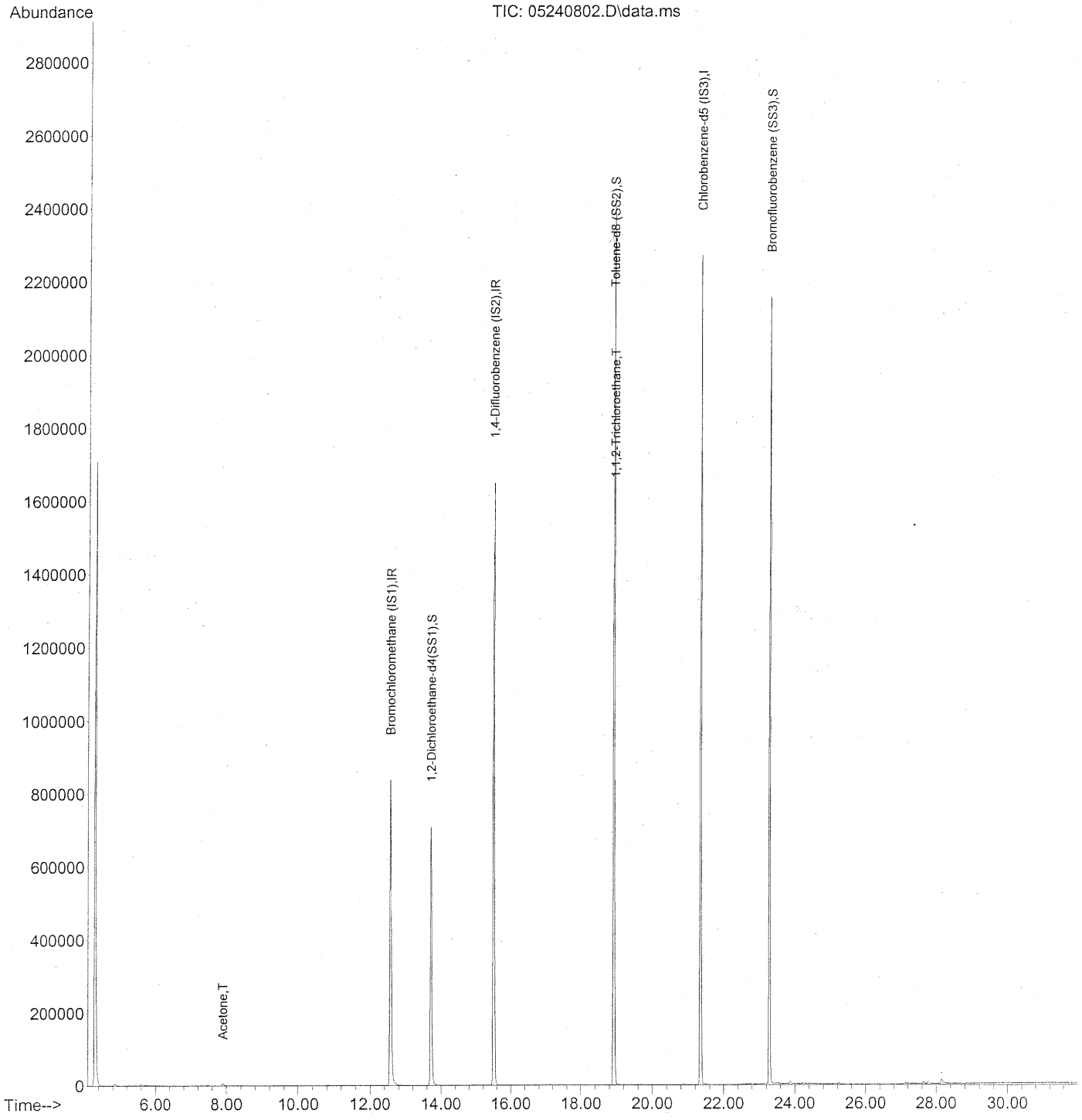
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	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: RG Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	443208	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1904075	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	885417	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	13.72	65	742053	24.163	ng	0.00
Spiked Amount 25.000			Recovery =	96.64%		
57) Toluene-d8 (SS2)	18.92	98	2017787	25.375	ng	0.00
Spiked Amount 25.000			Recovery =	101.48%		
73) Bromofluorobenzene (SS3)	23.29	174	802865	24.829	ng	0.00
Spiked Amount 25.000			Recovery =	99.32%		

Target Compounds					Qvalue
2) Propene	4.84	42	1995	N.D.	
3) Dichlorodifluoromethane	4.93	85	91	N.D.	
4) Chloromethane	0.00	50	0	N.D.	
5) Freon 114	5.57	135	58	N.D.	
6) Vinyl Chloride	0.00	62	0	N.D.	
7) 1,3-Butadiene	0.00	54	0	N.D.	
8) Bromomethane	6.52	94	136	N.D.	
9) Chloroethane	0.00	64	0	N.D.	
10) Ethanol	7.12	45	97	N.D.	
11) Acetonitrile	7.49	41	1938	N.D.	
12) Acrolein	7.69	56	417	N.D. YLS	
13) Acetone	7.91	58	4482	~~0.188 ng~~ J #	66
14) Trichlorofluoromethane	0.00	101	0	N.D.	
15) Isopropanol	8.37	45	267	N.D.	
16) Acrylonitrile	8.68	53	58	N.D.	
17) 1,1-Dichloroethene	0.00	96	0	N.D.	
18) tert-Butanol	9.37	59	138	N.D.	
19) Methylene Chloride	9.36	84	1196	N.D.	
20) Allyl Chloride	9.57	41	59	N.D.	
21) Trichlorotrifluoroethane	0.00	151	0	N.D.	
22) Carbon Disulfide	9.77	76	294	N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.	
24) 1,1-Dichloroethane	0.00	63	0	N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	
26) Vinyl Acetate	0.00	86	0	N.D.	
27) 2-Butanone	11.72	72	52	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.	

922

RD 5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.	
34) Tetrahydrofuran	13.42	72	51	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.76	62	64	N.D.	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.92	56	725	N.D.	
41) Benzene	14.98	78	1413	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	15.51	84	1423	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	16.73	100	70	N.D.	
51) n-Heptane	0.00	71	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	18.94	97	175405	~~7.120~~ ng/R #	8
58) Toluene	19.05	91	910	N.D.	
59) 2-Hexanone	19.39	43	65	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	20.22	43	61	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	21.42	112	410	N.D.	
66) Ethylbenzene	21.89	91	604	N.D.	
67) m- & p-Xylene	22.12	91	619	N.D.	
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.59	104	287	N.D.	
70) o-Xylene	22.72	91	661	N.D.	
71) n-Nonane	22.97	43	121	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	23.46	105	628	N.D.	
75) alpha-Pinene	23.87	93	57	N.D.	
76) n-Propylbenzene	24.10	91	1857	N.D.	
77) 3-Ethyltoluene	24.23	105	1424	N.D.	
78) 4-Ethyltoluene	24.28	105	445	N.D.	
79) 1,3,5-Trimethylbenzene	24.36	105	379	N.D.	

923

RP 5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	239	N.D.	
81) 2-Ethyltoluene	24.62	105	916	N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	1161	N.D.	
83) n-Decane	24.99	57	56	N.D.	
84) Benzyl Chloride	25.02	91	479	N.D.	
85) 1,3-Dichlorobenzene	25.08	146	1344	N.D.	
86) 1,4-Dichlorobenzene	25.17	146	1865	N.D.	
87) sec-Butylbenzene	25.21	105	222	N.D.	
88) p-Isopropyltoluene	25.42	119	408	N.D.	
89) 1,2,3-Trimethylbenzene	25.41	105	478	N.D.	
90) 1,2-Dichlorobenzene	25.58	146	551	N.D.	
91) d-Limonene	25.39	68	65	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.12	157	65	N.D.	
93) n-Undecane	26.50	57	175	N.D.	
94) 1,2,4-Trichlorobenzene	27.64	180	1968	N.D.	
95) Naphthalene	27.78	128	10487	N.D.	
96) n-Dodecane	27.74	57	626	N.D.	
97) Hexachloro-1,3-butadiene	28.19	225	113	N.D.	

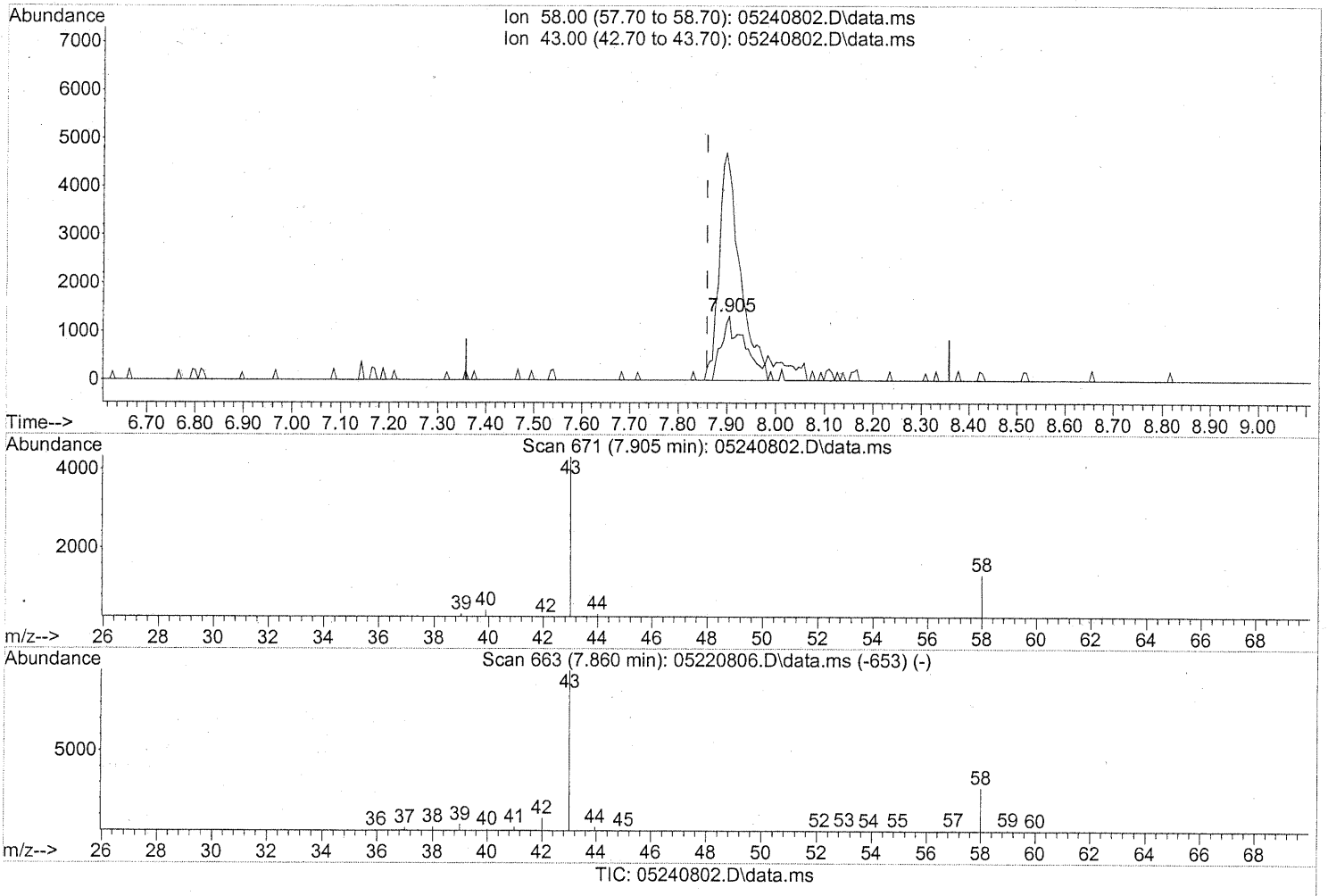
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SH 5/24/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240802.D\data.ms

(13) Acetone (T)

7.905min (+0.045) 0.19ng

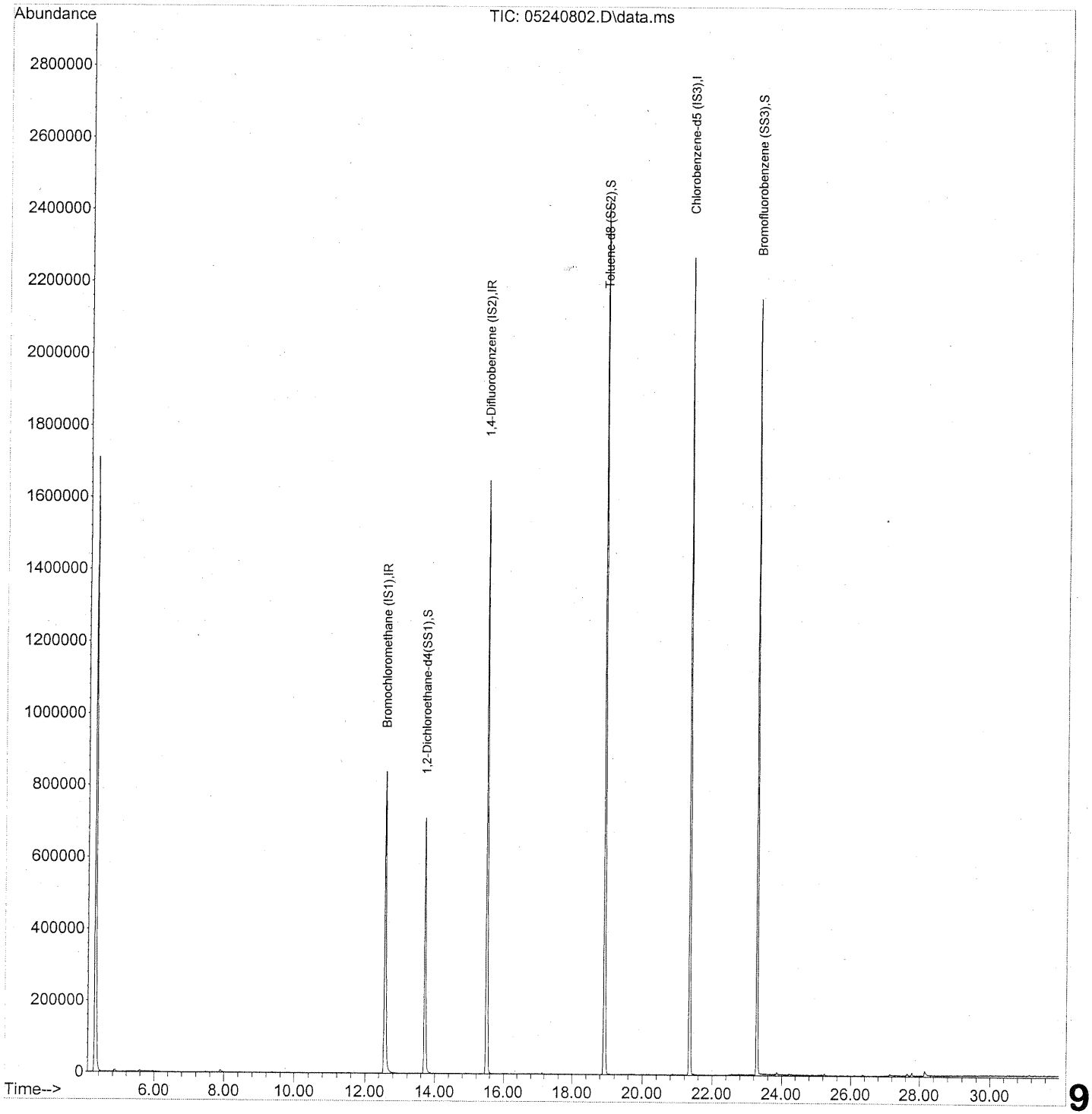
response 4482

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	347.86#
0.00	0.00	0.00
0.00	0.00	0.00

925

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:35:55 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240802.D
Acq On : 24 May 2008 7:42
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:35:55 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	443208	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1904075	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	885417	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	742053	24.163	ng	-0.03
Spiked Amount 25.000			Recovery =	96.64%		
5) Toluene-d8 (SS2)	18.92	98	2017787	25.375	ng	-0.02
Spiked Amount 25.000			Recovery =	101.48%		
6) Bromofluorobenzene (SS3)	23.29	174	802865	24.829	ng	0.00
Spiked Amount 25.000			Recovery =	99.32%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.91	119	318	N.D.		
8) n-Butylbenzene	25.93	91	771	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: P0801442

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 5/14 - 5/15/08
Analyst: Wida Ang Date(s) Received: 5/16/08
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 5/21 - 5/24/08
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	P080521-MB	**84**	70-130	**106**	70-130	**111**	70-130	
Method Blank	P080522-MB	**82**	70-130	**106**	70-130	**111**	70-130	
Method Blank	P080524-MB	**97**	70-130	**102**	70-130	**99**	70-130	
Lab Control Sample	P080521-LCS	**86**	70-130	**103**	70-130	**113**	70-130	
Lab Control Sample	P080522-LCS	**84**	70-130	**105**	70-130	**112**	70-130	
Lab Control Sample	P080524-LCS	**96**	70-130	**100**	70-130	**103**	70-130	
SG73B-05	P0801442-001	**97**	70-130	**97**	70-130	**100**	70-130	
SG39B-05	P0801442-002	**95**	70-130	**98**	70-130	**100**	70-130	
SG37B-20	P0801442-003	**93**	70-130	**96**	70-130	**100**	70-130	
SG36B-20	P0801442-004	**100**	70-130	**98**	70-130	**98**	70-130	
SG44B-05	P0801442-005	**92**	70-130	**99**	70-130	**103**	70-130	
SG88B-05	P0801442-006	**92**	70-130	**98**	70-130	**101**	70-130	
SG72B-05	P0801442-007	**89**	70-130	**98**	70-130	**102**	70-130	
SG70B-05	P0801442-008	**95**	70-130	**101**	70-130	**100**	70-130	
SG71B-05	P0801442-009	**96**	70-130	**100**	70-130	**99**	70-130	
SG65B-05	P0801442-010	**89**	70-130	**100**	70-130	**102**	70-130	
SG65B-05D	P0801442-011	**92**	70-130	**100**	70-130	**101**	70-130	
SG84B-05	P0801442-012	**91**	70-130	**100**	70-130	**100**	70-130	
SG85B-05	P0801442-013	**91**	70-130	**98**	70-130	**102**	70-130	
SG35B-05	P0801442-014	**102**	70-130	**101**	70-130	**98**	70-130	
SG35B-05	P0801442-014DUP	**101**	70-130	**101**	70-130	**99**	70-130	
SG94B-05	P0801442-015	**91**	70-130	**100**	70-130	**102**	70-130	
SG95B-05	P0801442-016	**90**	70-130	**101**	70-130	**102**	70-130	
SG89B-05	P0801442-017	**96**	70-130	**100**	70-130	**97**	70-130	
SG75B-05	P0801442-018	**91**	70-130	**102**	70-130	**102**	70-130	

Verified By: RG Date: 6/2/08

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: P0801442
CAS Sample ID: P080521-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: 5/21/08
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	**19.6**	**77**	69-117	
74-87-3	Chloromethane	24.5	**20.6**	**84**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**23.3**	**90**	58-133	
75-01-4	Vinyl Chloride	24.8	**18.2**	**73**	61-127	
74-83-9	Bromomethane	25.0	**19.6**	**78**	67-124	
75-00-3	Chloroethane	25.0	**20.5**	**82**	69-123	
64-17-5	Ethanol	23.8	**20.9**	**88**	56-137	
67-64-1	Acetone	26.8	**19.8**	**74**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**22.1**	**84**	71-120	
107-13-1	Acrylonitrile	25.5	**22.5**	**88**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.7**	**85**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**19.5**	**76**	35-141	
75-09-2	Methylene Chloride	27.8	**21.0**	**76**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**20.6**	**77**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.0**	**97**	63-129	
75-15-0	Carbon Disulfide	25.0	**19.8**	**79**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**21.1**	**80**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**20.3**	**76**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**20.8**	**78**	72-119	
108-05-4	Vinyl Acetate	25.3	**19.7**	**78**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**21.9**	**81**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**21.5**	**80**	74-117	
108-20-3	Diisopropyl Ether	26.3	**21.7**	**83**	70-131	
67-66-3	Chloroform	29.8	**24.9**	**84**	72-113	

Verified By: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080521-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: 5/21/08
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	**22.2**	**85**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**20.5**	**78**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**22.7**	**85**	78-114	
71-43-2	Benzene	27.0	**21.0**	**78**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**25.6**	**98**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**21.2**	**82**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**21.7**	**82**	78-117	
75-27-4	Bromodichloromethane	27.8	**23.8**	**86**	77-120	
79-01-6	Trichloroethene	27.3	**25.6**	**94**	80-116	
123-91-1	1,4-Dioxane	27.5	**24.1**	**88**	79-122	
80-62-6	Methyl Methacrylate	25.8	**25.3**	**98**	79-128	
142-82-5	n-Heptane	26.8	**22.1**	**82**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**20.6**	**82**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**21.9**	**80**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**23.2**	**83**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**22.9**	**87**	80-117	
108-88-3	Toluene	26.5	**24.0**	**91**	76-116	
591-78-6	2-Hexanone	26.3	**22.4**	**85**	69-131	
124-48-1	Dibromochloromethane	27.0	**28.4**	**105**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.1**	**99**	79-122	
111-65-9	n-Octane	26.0	**24.0**	**92**	78-122	
127-18-4	Tetrachloroethene	26.0	**27.8**	**107**	77-118	
108-90-7	Chlorobenzene	26.5	**25.9**	**98**	78-117	

Verified By: RG Date: 6/2/08

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: P0801442
CAS Sample ID: P080521-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:

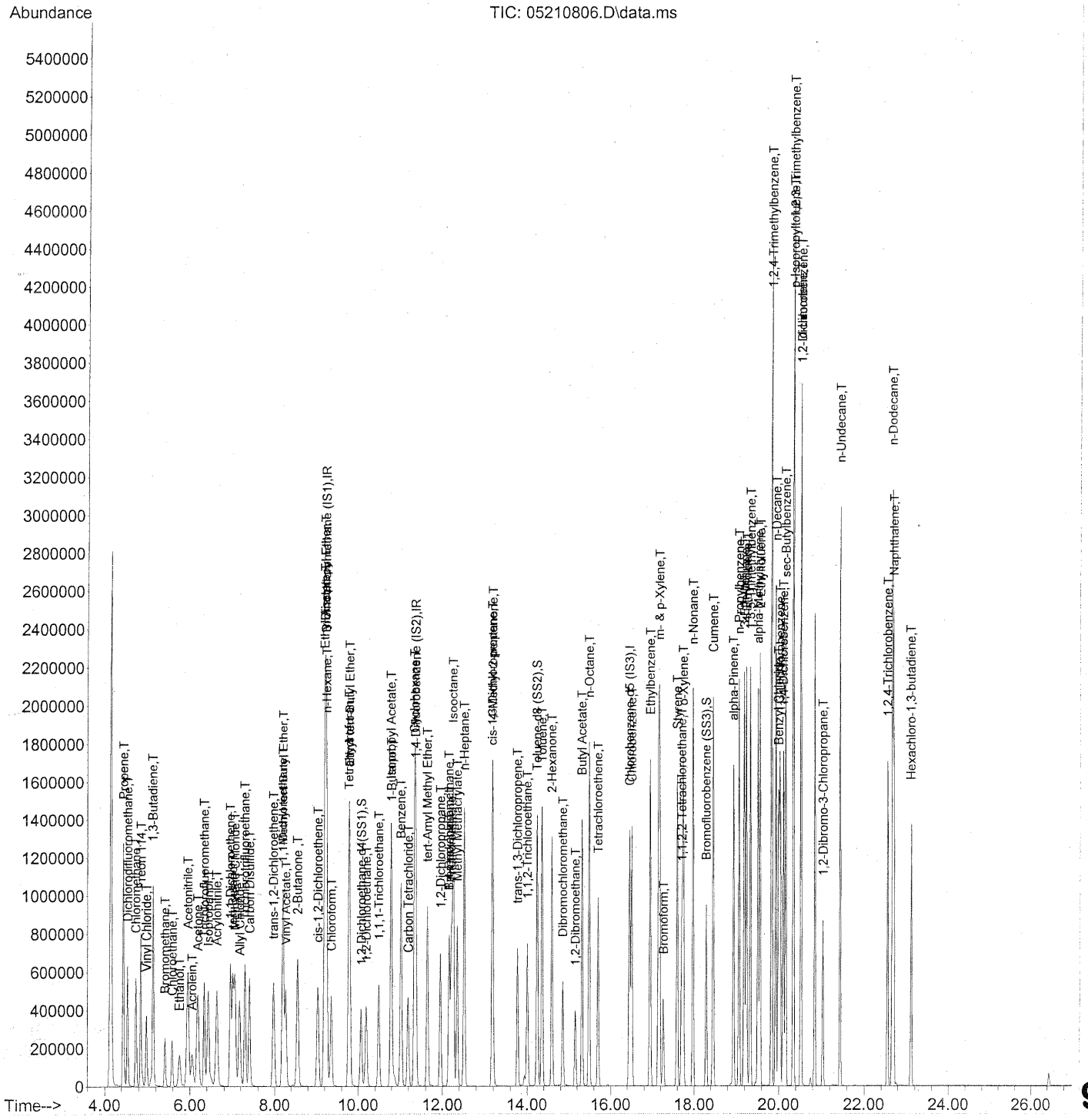
Date Collected: NA
Date Received: NA
Date Analyzed: 5/21/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**24.2**	**92**	79-116	
179601-23-1	m,p-Xylenes	62.5	**57.7**	**92**	80-117	
75-25-2	Bromoform	31.3	**37.9**	**121**	77-128	
100-42-5	Styrene	26.3	**26.4**	**100**	80-124	
95-47-6	o-Xylene	29.8	**27.8**	**93**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**27.2**	**91**	79-120	
98-82-8	Cumene	27.0	**26.7**	**99**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.6**	**94**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.8**	**101**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.7**	**99**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**27.1**	**106**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.7**	**99**	80-122	
100-44-7	Benzyl Chloride	25.8	**25.0**	**97**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**27.0**	**106**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**28.3**	**108**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.6**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**30.0**	**104**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**27.1**	**105**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**29.7**	**115**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**31.1**	**120**	75-138	
91-20-3	Naphthalene	26.3	**28.4**	**108**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**32.4**	**123**	72-128	

Verified By: RG Date: 6/2/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:55 2008
Quant Method : J:\MS16\METHODS\R16051208.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\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:55 2008
Quant Method : J:\MS16\METHODS\R16051208.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	271810	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1132838	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	16.45	82	456218	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.08	65	411681	21.478	ng		-0.02
Spiked Amount 25.000			Recovery = 85.92%				
57) Toluene-d8 (SS2)	14.24	98	1155242	25.718	ng		-0.01
Spiked Amount 25.000			Recovery = 102.88%				
73) Bromofluorobenzene (SS3)	18.29	174	328892	28.132	ng		0.00
Spiked Amount 25.000			Recovery = 112.52%				
Target Compounds							Qvalue
2) Propene	4.44	42	599361	22.052	ng		91
3) Dichlorodifluoromethane	4.54	85	628856	19.568	ng		98
4) Chloromethane	4.74	50	818992	20.613	ng		99
5) Freon 114	4.85	135	361002	23.296	ng		97
6) Vinyl Chloride	4.98	62	500198	18.233	ng		94
7) 1,3-Butadiene	5.13	54	610282	23.827	ng		90
8) Bromomethane	5.42	94	222027	19.641	ng		99
9) Chloroethane	5.59	64	256547	20.458	ng		96
10) Ethanol	5.76	45	390152m	20.877	ng		
11) Acetonitrile	5.95	41	1261730	26.002	ng		99
12) Acrolein	6.05	56	277180	20.830	ng		99
13) Acetone	6.19	58	355255	19.781	ng		90
14) Trichlorofluoromethane	6.34	101	588305	22.134	ng		100
15) Isopropanol	6.43	45	1200495m	20.617	ng		
16) Acrylonitrile	6.63	53	719060	22.512	ng		97
17) 1,1-Dichloroethene	6.95	96	308830	23.736	ng		89
18) tert-Butanol	7.01	59	1030635	19.462	ng		93
19) Methylene Chloride	7.06	84	297915	20.998	ng	#	30
20) Allyl Chloride	7.17	41	612395	20.597	ng		80
21) Trichlorotrifluoroethane	7.30	151	301175	26.964	ng		89
22) Carbon Disulfide	7.40	76	1062936	19.849	ng		100
23) trans-1,2-Dichloroethene	7.97	61	586826	21.092	ng		92
24) 1,1-Dichloroethane	8.19	63	643619	20.288	ng		94
25) Methyl tert-Butyl Ether	8.20	73	888656	20.838	ng		78
26) Vinyl Acetate	8.27	86	71857	19.723	ng	#	1
27) 2-Butanone	8.55	72	202579	21.894	ng	#	1
28) cis-1,2-Dichloroethene	9.04	61	550790	21.473	ng		93
29) Diisopropyl Ether	9.20	87	255511	21.698	ng	#	18
30) Ethyl Acetate	9.20	61	159326	23.280	ng		82
31) n-Hexane	9.25	57	838051	21.668	ng		91

5/21/08

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:55 2008
Quant Method : J:\MS16\METHODS\R16051208.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	9.36	83	505429	24.937	ng		95
34) Tetrahydrofuran	9.78	72	201397	21.717	ng	#	33
35) Ethyl tert-Butyl Ether	9.80	87	371386	22.234	ng	#	74
36) 1,2-Dichloroethane	10.19	62	497886	20.535	ng		96
38) 1,1,1-Trichloroethane	10.50	97	493593	22.658	ng		91
39) Isopropyl Acetate	10.79	61	252675	21.822	ng	#	49
40) 1-Butanol	10.80	56	450001	20.969	ng		94
41) Benzene	11.02	78	1168573	21.042	ng		99
42) Carbon Tetrachloride	11.20	117	420243	25.553	ng		98
43) Cyclohexane	11.34	84	460331	20.926	ng	#	44
44) tert-Amyl Methyl Ether	11.64	73	828034	21.173	ng	#	73
45) 1,2-Dichloropropane	11.95	63	374011	21.709	ng		96
46) Bromodichloromethane	12.16	83	393246	23.830	ng		93
47) Trichloroethene	12.21	130	391636	25.608	ng		99
48) 1,4-Dioxane	12.16	88	251387	24.096	ng	#	66
49) Isooctane	12.26	57	2054617	22.274	ng		95
50) Methyl Methacrylate	12.36	100	138954	25.338	ng	#	75
51) n-Heptane	12.52	71	312434	22.112	ng	#	51
52) cis-1,3-Dichloropropene	13.18	75	455787	20.579	ng		100
53) 4-Methyl-2-pentanone	13.19	58	442964	21.916	ng		83
54) trans-1,3-Dichloropropene	13.77	75	453202	23.166	ng		98
55) 1,1,2-Trichloroethane	14.00	97	308775	22.911	ng		91
58) Toluene	14.36	91	1321971	24.020	ng		99
59) 2-Hexanone	14.59	43	1303470	22.398	ng		94
60) Dibromochloromethane	14.85	129	407336	28.357	ng		100
61) 1,2-Dibromoethane	15.15	107	370661	26.100	ng		99
62) Butyl Acetate	15.31	43	1454095	24.489	ng		94
63) n-Octane	15.49	57	423082	24.020	ng		93
64) Tetrachloroethene	15.70	166	378358	27.816	ng		99
65) Chlorobenzene	16.50	112	944510	25.932	ng		100
66) Ethylbenzene	16.95	91	1522174	24.247	ng		93
67) m- & p-Xylene	17.17	91	2374821	57.736	ng		92
68) Bromoform	17.26	173	294252	37.881	ng		100
69) Styrene	17.60	104	1005068	26.365	ng		94
70) o-Xylene	17.74	91	1217686	27.761	ng		93
71) n-Nonane	17.97	43	1177419	24.304	ng		89
72) 1,1,2,2-Tetrachloroethane	17.70	83	526251	27.232	ng		93
74) Cumene	18.45	105	1633300	26.654	ng		95
75) alpha-Pinene	18.93	93	766622	25.605	ng		94
76) n-Propylbenzene	19.07	91	1888878	24.581	ng		93
77) 3-Ethyltoluene	19.19	105	1661289	25.032	ng		95
78) 4-Ethyltoluene	19.25	105	1617167	26.759	ng		94
79) 1,3,5-Trimethylbenzene	19.34	105	1369869	25.746	ng		91

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

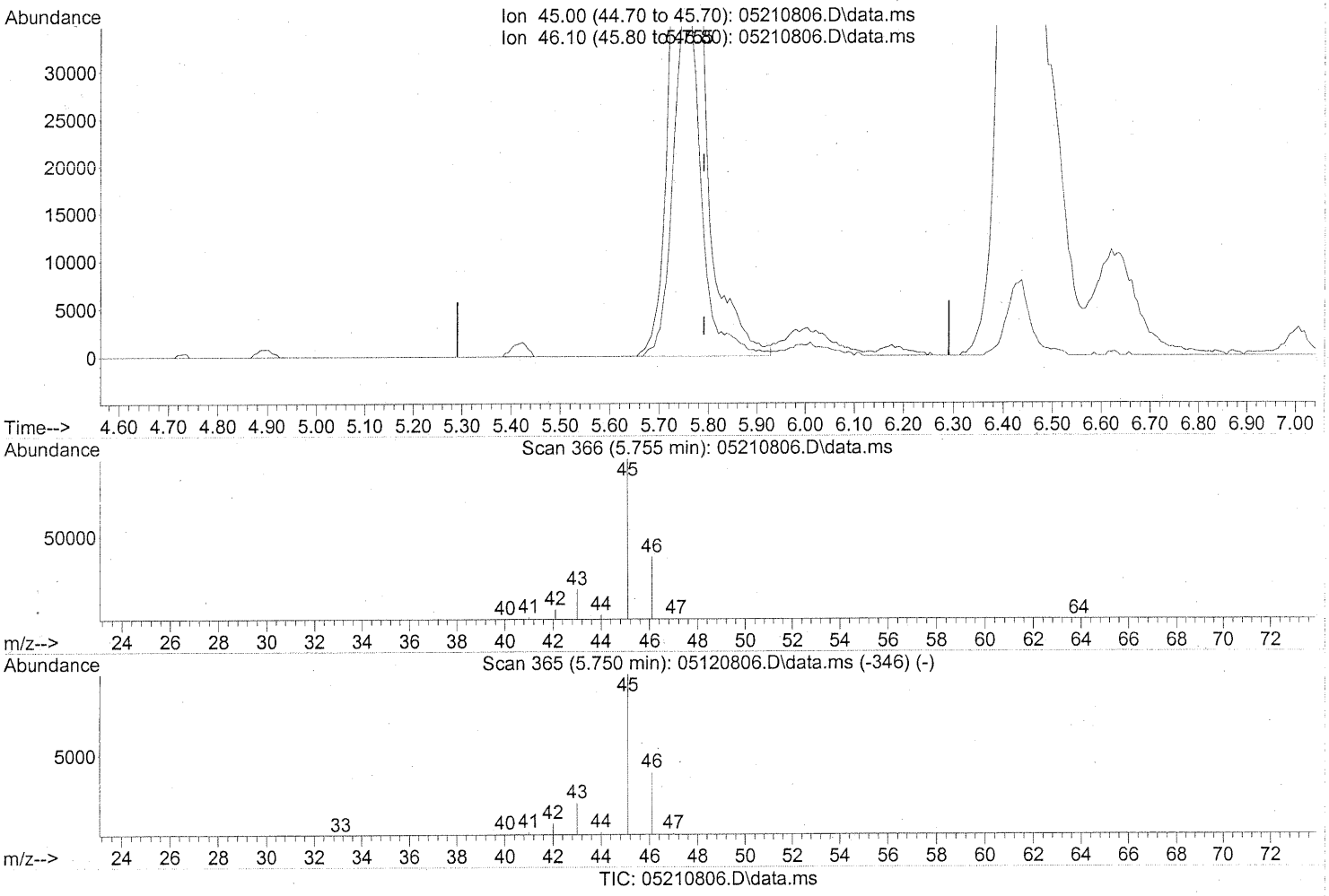
Quant Time: May 21 11:43:55 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	782887	27.119	ng		98
81) 2-Ethyltoluene	19.57	105	1636705	24.856	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	1410950	25.663	ng		91
83) n-Decane	19.94	57	1088324	24.974	ng		79
84) Benzyl Chloride	19.99	91	1146154	25.015	ng		90
85) 1,3-Dichlorobenzene	20.03	146	863044	27.049	ng		99
86) 1,4-Dichlorobenzene	20.11	146	863540	28.335	ng		99
87) sec-Butylbenzene	20.16	105	1904599	26.591	ng		95
88) p-Isopropyltoluene	20.34	119	1827860	30.049	ng		94
89) 1,2,3-Trimethylbenzene	20.35	105	1484656	27.731	ng		89
90) 1,2-Dichlorobenzene	20.52	146	801696	27.091	ng		99
91) d-Limonene	20.52	68	459441	23.163	ng		89
92) 1,2-Dibromo-3-Chloropr...	21.04	157	277403	29.747	ng		88
93) n-Undecane	21.43	57	1176968	25.682	ng		77
94) 1,2,4-Trichlorobenzene	22.55	184	160340	31.147	ng	#	86
95) Naphthalene	22.70	128	2211113	28.421	ng		99
96) n-Dodecane	22.66	57	1171825	26.204	ng	#	76
97) Hexachloro-1,3-butadiene	23.11	225	249686	32.442	ng		100

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

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:14 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

5.755min (-0.036) 19.83ng

response 370614

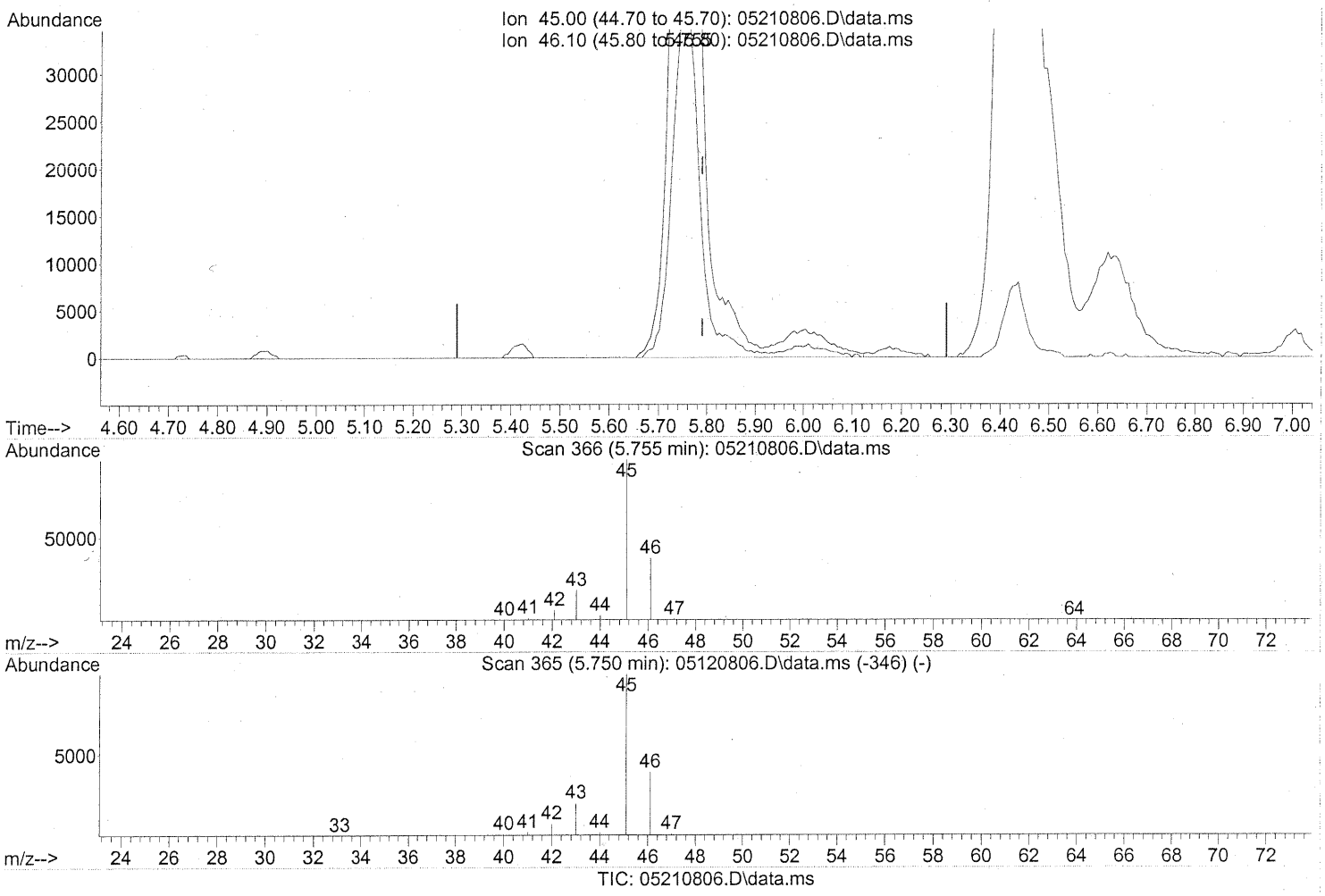
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:14 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210806.D\data.ms

(10) Ethanol (T)

5.755min (-0.036) 20.88ng m

response 390152

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	37.88
0.00	0.00	0.00
0.00	0.00	0.00

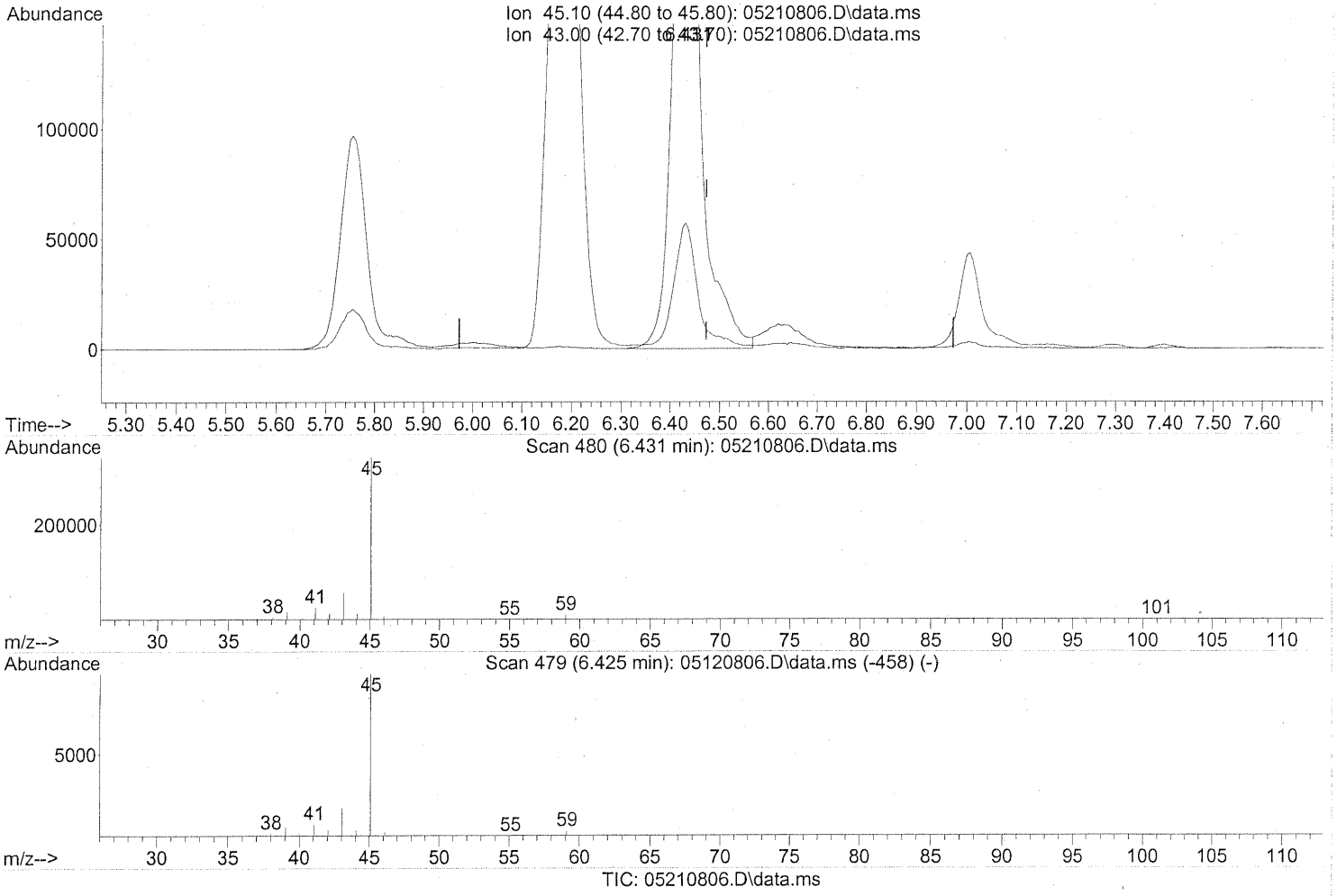
int. whole peaks
WA 5/21/08
Em 5/22/08

938

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:14 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.431min (-0.042) 19.52ng

response 1136474

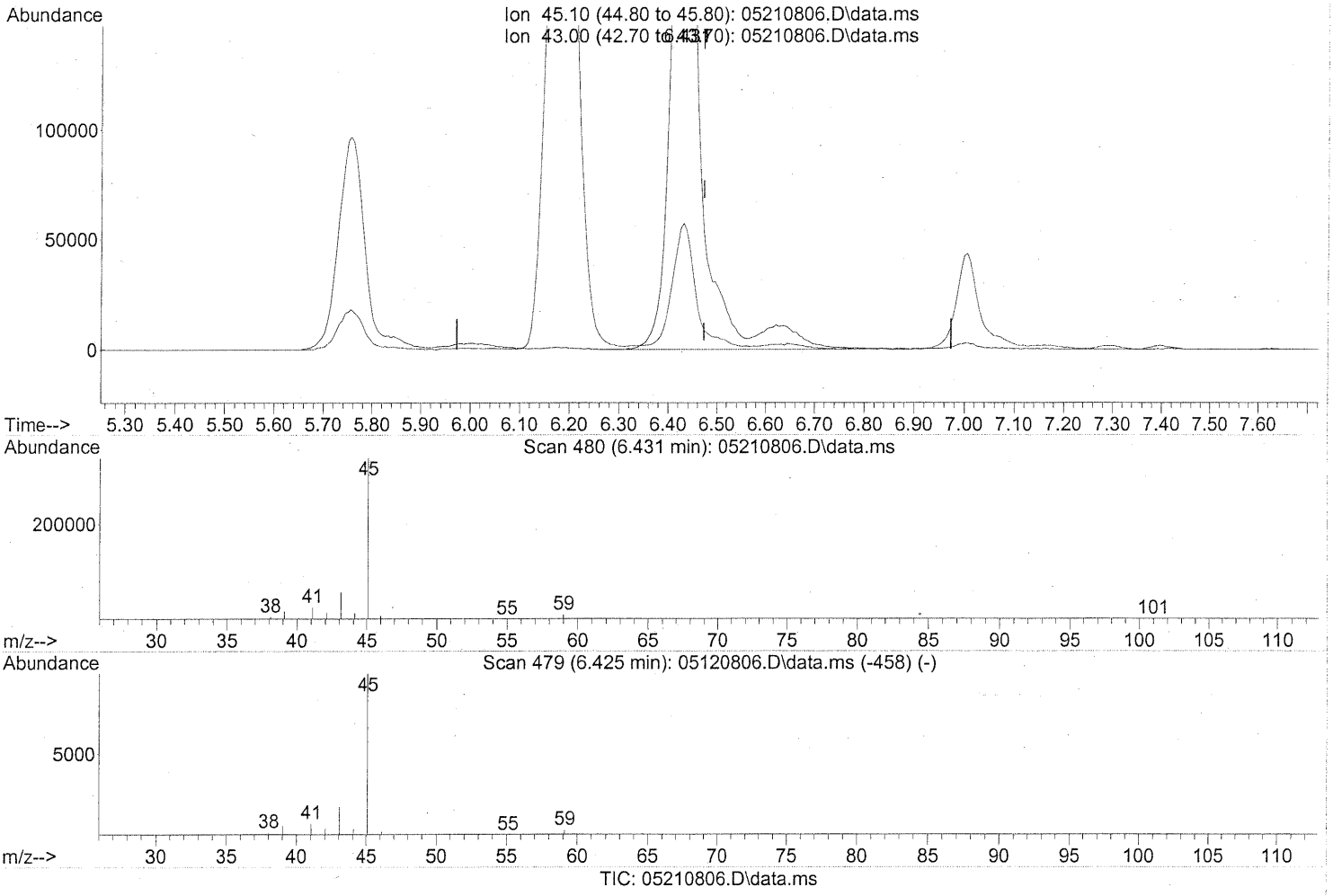
split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.72
0.00	0.00	0.00
0.00	0.00	0.00

939

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210806.D
Acq On : 21 May 2008 11:14 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 21 11:43:14 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.431min (-0.042) 20.62ng m

response 1200495

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	14.89
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
WA 5/21/08
EM 5/22/08

940

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: P0801442
CAS Sample ID: P080522-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: 5/22/08
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	**19.1**	**75**	69-117	
74-87-3	Chloromethane	24.5	**19.9**	**81**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**23.3**	**90**	58-133	
75-01-4	Vinyl Chloride	24.8	**18.1**	**73**	61-127	
74-83-9	Bromomethane	25.0	**20.4**	**82**	67-124	
75-00-3	Chloroethane	25.0	**20.3**	**81**	69-123	
64-17-5	Ethanol	23.8	**20.0**	**84**	56-137	
67-64-1	Acetone	26.8	**19.4**	**72**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**22.0**	**84**	71-120	
107-13-1	Acrylonitrile	25.5	**21.9**	**86**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.4**	**84**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**19.1**	**74**	35-141	
75-09-2	Methylene Chloride	27.8	**20.4**	**73**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**19.7**	**74**	75-127	**L**
76-13-1	Trichlorotrifluoroethane	27.8	**26.6**	**96**	63-129	
75-15-0	Carbon Disulfide	25.0	**19.5**	**78**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**20.7**	**78**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**19.8**	**74**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**20.3**	**76**	72-119	
108-05-4	Vinyl Acetate	25.3	**20.5**	**81**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**21.5**	**80**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**20.9**	**77**	74-117	
108-20-3	Diisopropyl Ether	26.3	**21.5**	**82**	70-131	
67-66-3	Chloroform	29.8	**24.5**	**82**	72-113	

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080522-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: 5/22/08
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	**21.6**	**83**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**19.9**	**76**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**22.4**	**84**	78-114	
71-43-2	Benzene	27.0	**20.7**	**77**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**25.4**	**98**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**20.7**	**80**	81-118	**L**
78-87-5	1,2-Dichloropropane	26.5	**21.3**	**80**	78-117	
75-27-4	Bromodichloromethane	27.8	**23.5**	**85**	77-120	
79-01-6	Trichloroethene	27.3	**25.5**	**93**	80-116	
123-91-1	1,4-Dioxane	27.5	**23.7**	**86**	79-122	
80-62-6	Methyl Methacrylate	25.8	**25.0**	**97**	79-128	
142-82-5	n-Heptane	26.8	**21.5**	**80**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**20.3**	**81**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**21.4**	**78**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**22.8**	**81**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**22.5**	**86**	80-117	
108-88-3	Toluene	26.5	**24.5**	**92**	76-116	
591-78-6	2-Hexanone	26.3	**22.1**	**84**	69-131	
124-48-1	Dibromochloromethane	27.0	**28.9**	**107**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.8**	**102**	79-122	
111-65-9	n-Octane	26.0	**24.3**	**93**	78-122	
127-18-4	Tetrachloroethene	26.0	**28.8**	**111**	77-118	
108-90-7	Chlorobenzene	26.5	**26.5**	**100**	78-117	

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Verified By: RC Date: 6/2/08

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: P0801442
CAS Sample ID: P080522-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:

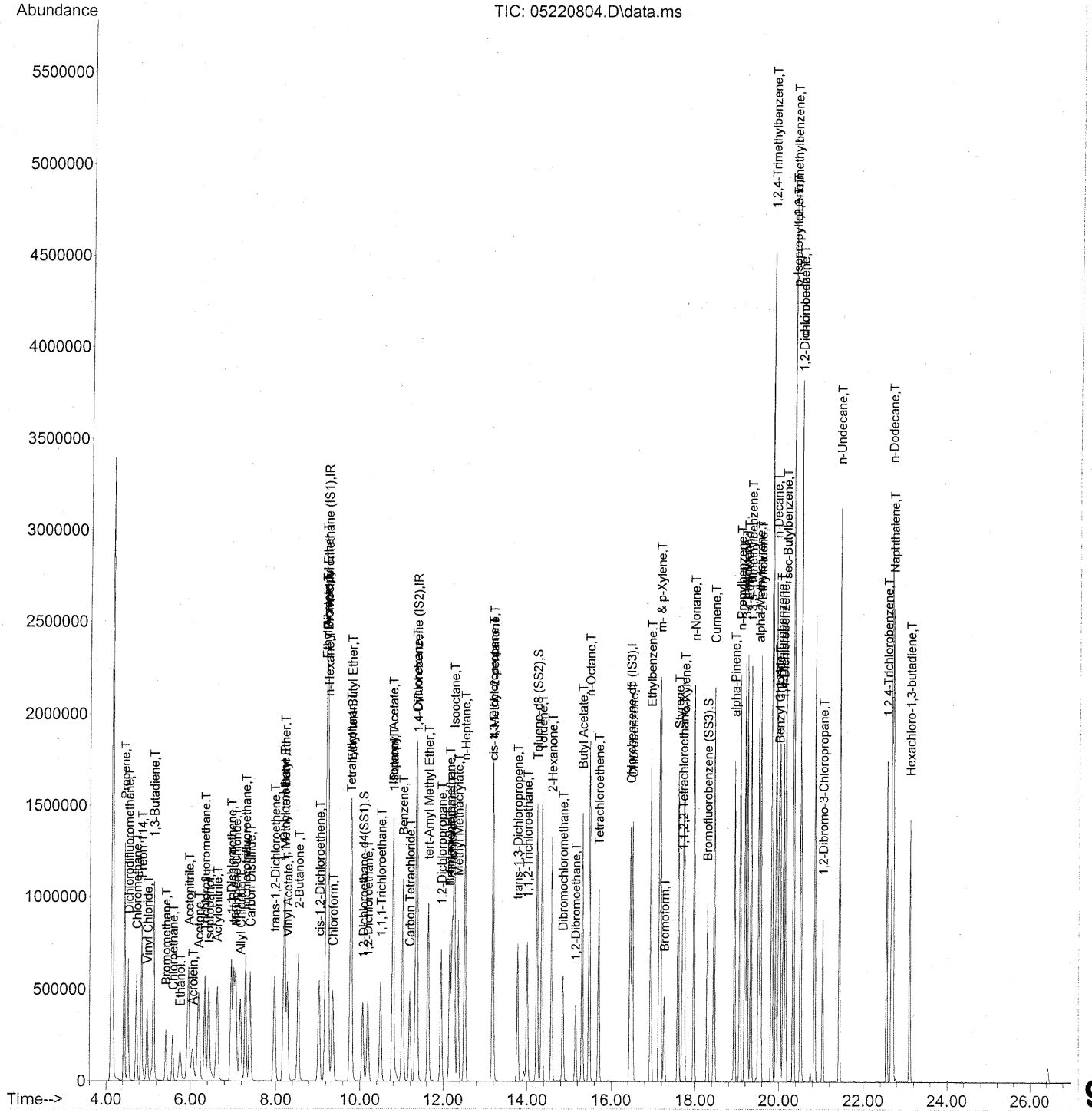
Date Collected: NA
Date Received: NA
Date Analyzed: 5/22/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**24.6**	**94**	79-116	
179601-23-1	m,p-Xylenes	62.5	**58.6**	**94**	80-117	
75-25-2	Bromoform	31.3	**38.7**	**124**	77-128	
100-42-5	Styrene	26.3	**26.7**	**102**	80-124	
95-47-6	o-Xylene	29.8	**28.0**	**94**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**27.2**	**91**	79-120	
98-82-8	Cumene	27.0	**27.0**	**100**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.8**	**94**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.9**	**102**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**26.1**	**100**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**27.5**	**108**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.8**	**99**	80-122	
100-44-7	Benzyl Chloride	25.8	**25.1**	**97**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**27.5**	**108**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**28.8**	**110**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.8**	**100**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**30.3**	**105**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**27.3**	**106**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**30.0**	**116**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**31.1**	**120**	75-138	
91-20-3	Naphthalene	26.3	**28.2**	**107**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**32.8**	**125**	72-128	

Verified By: RC Date: 6/2/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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	292129	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	11.36	114	1211752	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	471175	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	430176	20.882	ng		-0.02
Spiked Amount 25.000			Recovery =	83.52%			
57) Toluene-d8 (SS2)	14.24	98	1221882	26.338	ng		-0.01
Spiked Amount 25.000			Recovery =	105.36%			
73) Bromofluorobenzene (SS3)	18.29	174	336783	27.893	ng		0.00
Spiked Amount 25.000			Recovery =	111.56%			
Target Compounds							Qvalue
2) Propene	4.43	42	601275	20.584	ng		93
3) Dichlorodifluoromethane	4.53	85	661353	19.148	ng		98
4) Chloromethane	4.73	50	849424	19.892	ng		99
5) Freon 114	4.85	135	388485	23.325	ng		97
6) Vinyl Chloride	4.98	62	533661	18.100	ng		95
7) 1,3-Butadiene	5.13	54	632891	22.991	ng		88
8) Bromomethane	5.41	94	248248	20.433	ng		99
9) Chloroethane	5.58	64	274245	20.349	ng		95
10) Ethanol	5.76	45	401946m	20.012	ng		
11) Acetonitrile	5.95	41	1288803	24.713	ng		99
12) Acrolein	6.05	56	287536	20.105	ng		96
13) Acetone	6.18	58	374862	19.421	ng	#	84
14) Trichlorofluoromethane	6.33	101	628122	21.989	ng		99
15) Isopropanol	6.43	45	1230136m	19.657	ng		
16) Acrylonitrile	6.63	53	751292	21.886	ng		97
17) 1,1-Dichloroethene	6.95	96	326640	23.359	ng		91
18) tert-Butanol	7.00	59	1086884	19.097	ng		94
19) Methylene Chloride	7.05	84	310478	20.361	ng	#	33
20) Allyl Chloride	7.17	41	629503	19.700	ng		81
21) Trichlorotrifluoroethane	7.29	151	319499	26.615	ng		89
22) Carbon Disulfide	7.40	76	1122593	19.505	ng		100
23) trans-1,2-Dichloroethene	7.97	61	618432	20.681	ng		92
24) 1,1-Dichloroethane	8.19	63	673990	19.768	ng		94
25) Methyl tert-Butyl Ether	8.20	73	931283	20.318	ng		78
26) Vinyl Acetate	8.27	86	80148	20.469	ng	#	1
27) 2-Butanone	8.55	72	213304	21.450	ng	#	8
28) cis-1,2-Dichloroethene	9.04	61	575165	20.864	ng		93
29) Diisopropyl Ether	9.20	87	271551	21.456	ng	#	29
30) Ethyl Acetate	9.19	61	168494	22.908	ng		83
31) n-Hexane	9.24	57	882132	21.221	ng		92

DH 5/22/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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	534412	24.533	ng		96
34) Tetrahydrofuran	9.77	72	211647	21.235	ng	#	40
35) Ethyl tert-Butyl Ether	9.79	87	388635	21.649	ng	#	73
36) 1,2-Dichloroethane	10.19	62	519635	19.941	ng		96
38) 1,1,1-Trichloroethane	10.50	97	521931	22.399	ng		93
39) Isopropyl Acetate	10.78	61	268994	21.718	ng	#	58
40) 1-Butanol	10.79	56	477606	20.806	ng		99
41) Benzene	11.02	78	1230002	20.705	ng		99
42) Carbon Tetrachloride	11.19	117	447159	25.419	ng		99
43) Cyclohexane	11.34	84	483997	20.569	ng	#	45
44) tert-Amyl Methyl Ether	11.63	73	865825	20.697	ng		74
45) 1,2-Dichloropropane	11.95	63	393336	21.343	ng		96
46) Bromodichloromethane	12.15	83	414488	23.481	ng		93
47) Trichloroethene	12.21	130	417781	25.539	ng		99
48) 1,4-Dioxane	12.15	88	264944	23.741	ng	#	66
49) Isooctane	12.26	57	2132100	21.608	ng		94
50) Methyl Methacrylate	12.35	100	146813	25.028	ng	#	75
51) n-Heptane	12.52	71	324691	21.483	ng	#	50
52) cis-1,3-Dichloropropene	13.17	75	481111	20.308	ng		100
53) 4-Methyl-2-pentanone	13.19	58	461809	21.360	ng		83
54) trans-1,3-Dichloropropene	13.77	75	477543	22.820	ng		98
55) 1,1,2-Trichloroethane	14.00	97	324214	22.489	ng		92
58) Toluene	14.35	91	1392749	24.502	ng		98
59) 2-Hexanone	14.59	43	1325678	22.056	ng		96
60) Dibromochloromethane	14.85	129	428112	28.858	ng		100
61) 1,2-Dibromoethane	15.15	107	392478	26.759	ng		99
62) Butyl Acetate	15.31	43	1480541	24.143	ng		94
63) n-Octane	15.48	57	442700	24.336	ng		94
64) Tetrachloroethene	15.70	166	403955	28.755	ng		99
65) Chlorobenzene	16.50	112	995375	26.461	ng		99
66) Ethylbenzene	16.94	91	1598140	24.649	ng		93
67) m- & p-Xylene	17.16	91	2490852	58.635	ng		92
68) Bromoform	17.26	173	310731	38.732	ng		100
69) Styrene	17.60	104	1052201	26.725	ng		95
70) o-Xylene	17.74	91	1269331	28.020	ng		93
71) n-Nonane	17.97	43	1188080	23.745	ng		91
72) 1,1,2,2-Tetrachloroethane	17.70	83	542574	27.186	ng		93
74) Cumene	18.45	105	1710846	27.033	ng		95
75) alpha-Pinene	18.93	93	797269	25.783	ng		94
76) n-Propylbenzene	19.07	91	1966751	24.782	ng		93
77) 3-Ethyltoluene	19.19	105	1748839	25.514	ng		95
78) 4-Ethyltoluene	19.24	105	1677225	26.872	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	1432922	26.076	ng		91

AGH 5/22/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:46 2008
Quant Method : J:\MS16\METHODS\R16051208.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

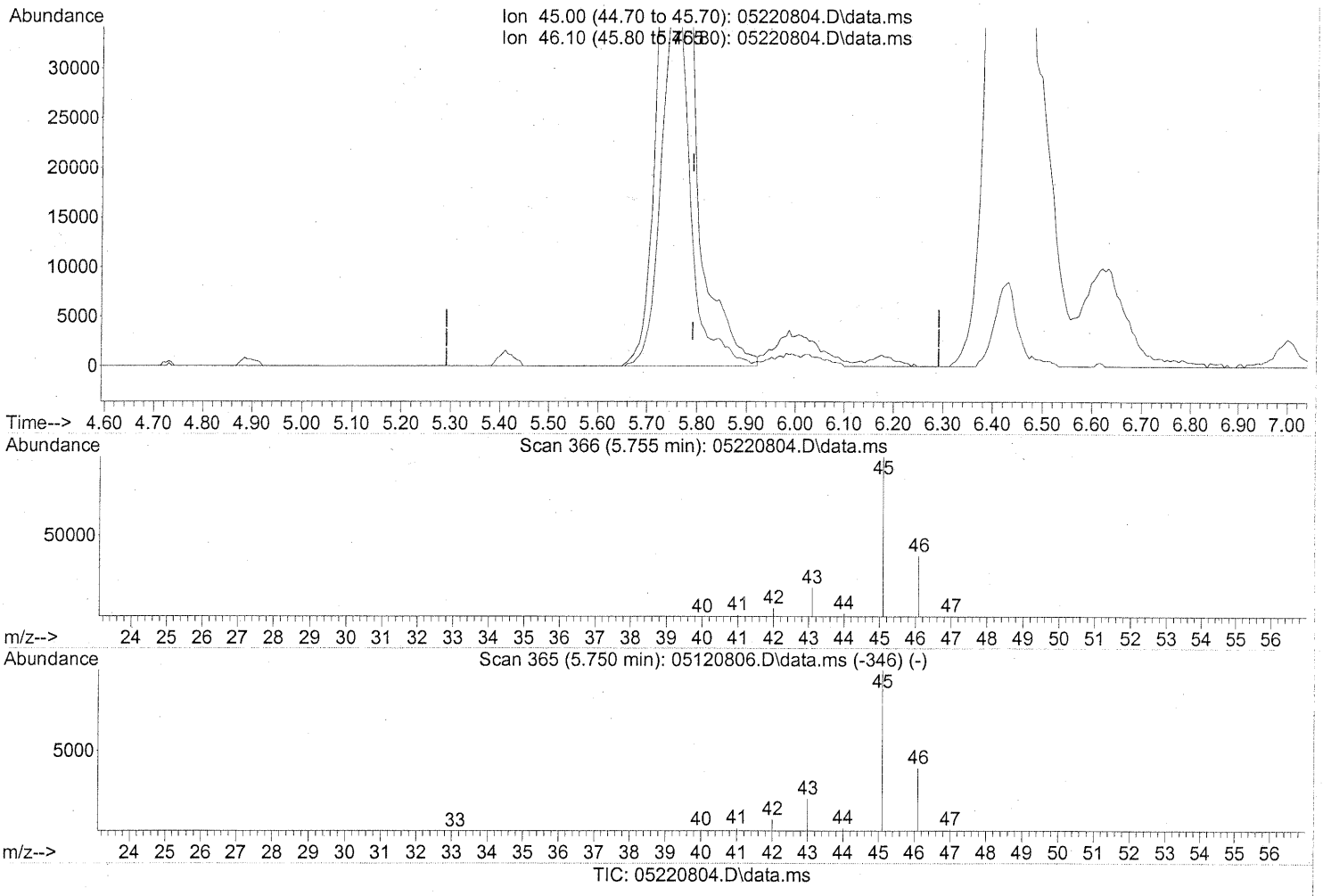
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	818735	27.460	ng		98
81) 2-Ethyltoluene	19.57	105	1706358	25.091	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	1465746	25.813	ng		91
83) n-Decane	19.93	57	1119088	24.865	ng		79
84) Benzyl Chloride	19.99	91	1185576	25.054	ng		90
85) 1,3-Dichlorobenzene	20.02	146	905258	27.471	ng		100
86) 1,4-Dichlorobenzene	20.10	146	905845	28.779	ng		99
87) sec-Butylbenzene	20.16	105	1978794	26.750	ng		96
88) p-Isopropyltoluene	20.34	119	1901358	30.265	ng		94
89) 1,2,3-Trimethylbenzene	20.35	105	1548757	28.010	ng		89
90) 1,2-Dichlorobenzene	20.52	146	833029	27.257	ng		100
91) d-Limonene	20.52	68	472562	23.068	ng		89
92) 1,2-Dibromo-3-Chloropr...	21.04	157	289342	30.042	ng		86
93) n-Undecane	21.43	57	1205991	25.480	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	165257	31.083	ng	#	85
95) Naphthalene	22.70	128	2268630	28.235	ng		99
96) n-Dodecane	22.66	57	1189214	25.749	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	260390	32.758	ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:07 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

5.755min (-0.036) 18.92ng

response 379981

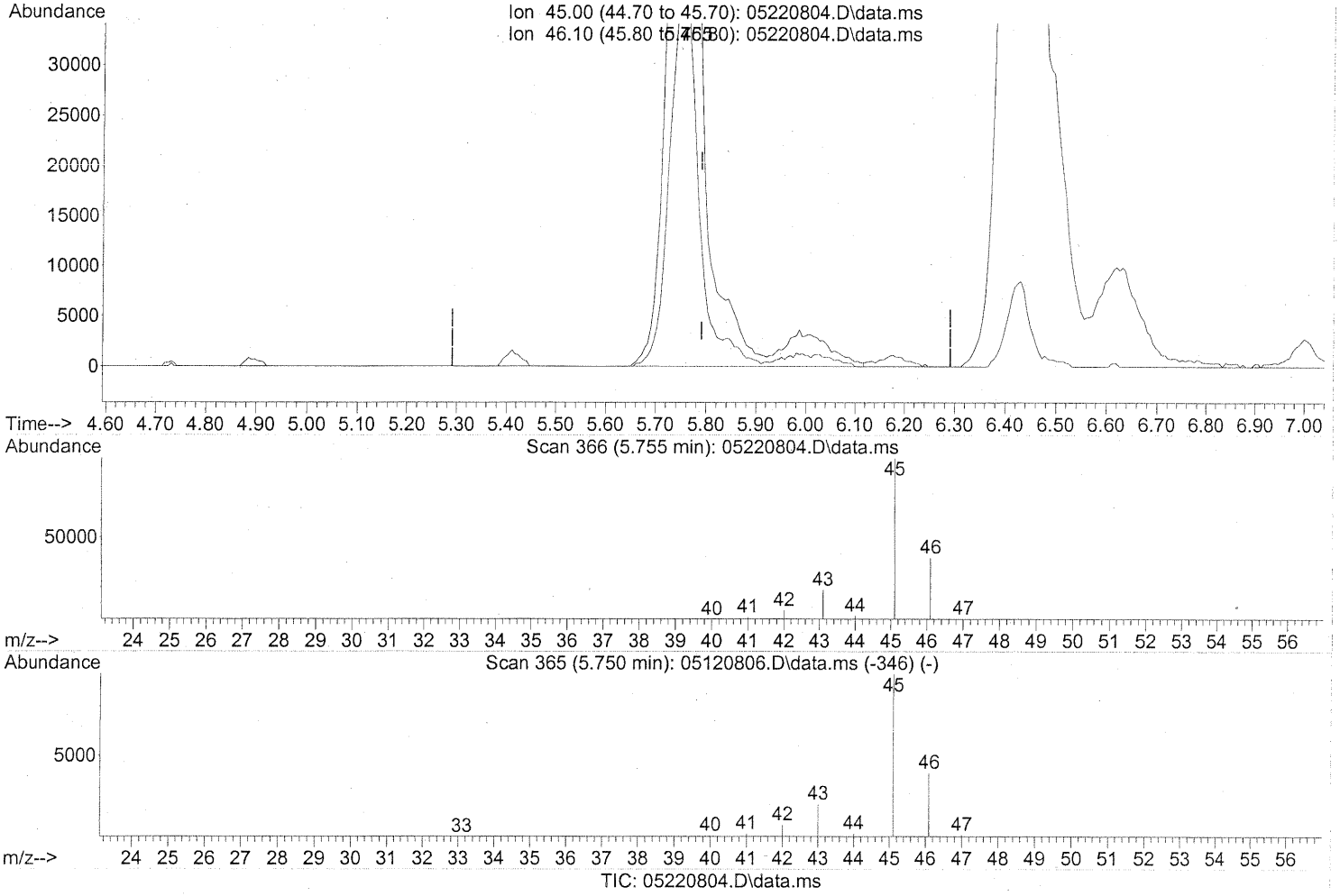
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.04
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

948

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:07 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

5.755min (-0.036) 20.01ng m

response 401946

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	37.86
0.00	0.00	0.00
0.00	0.00	0.00

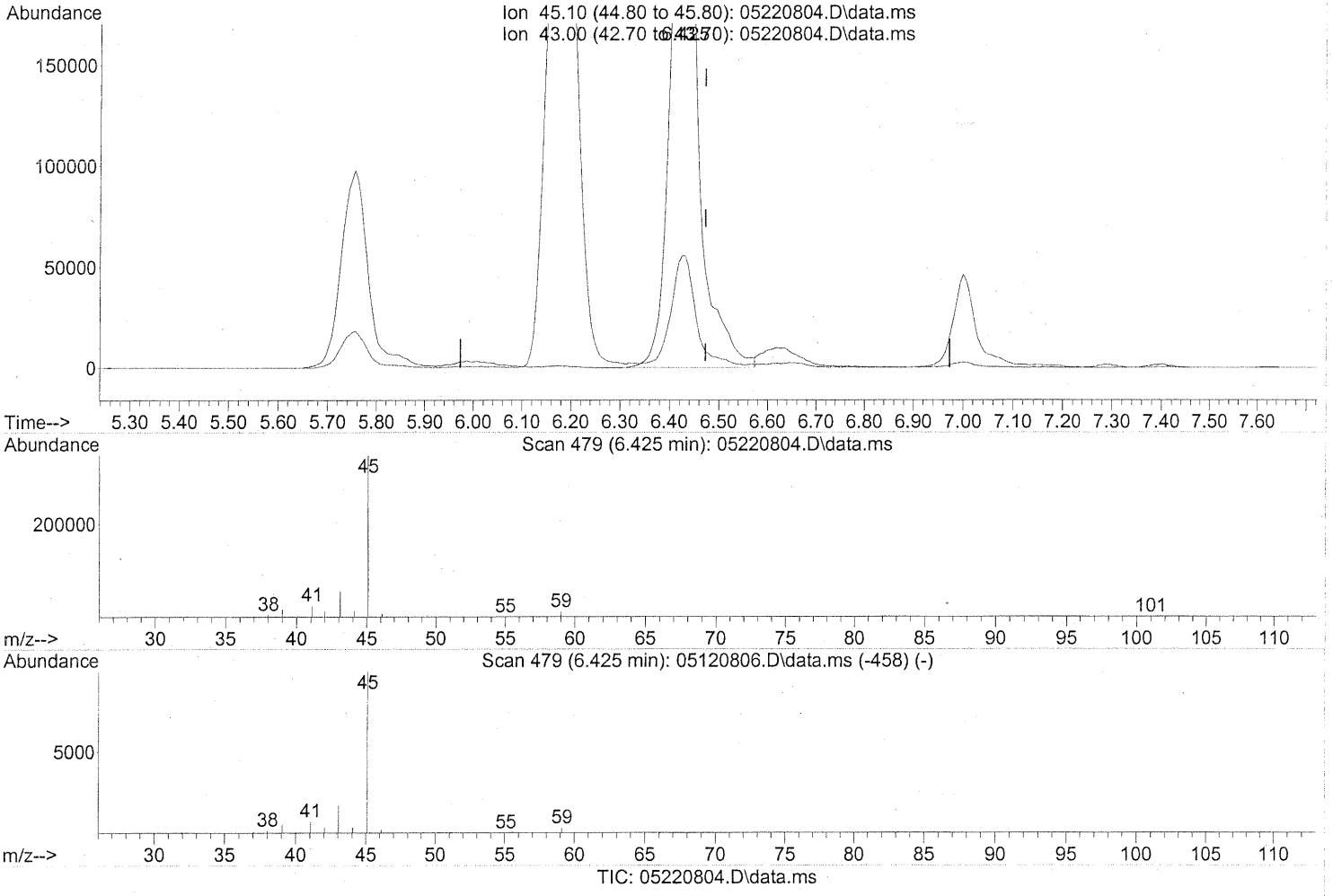
int. whole peaks
DH 5/22/08
Em 5/22/08

949

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:07 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.425min (-0.048) 18.81ng

response 1177300

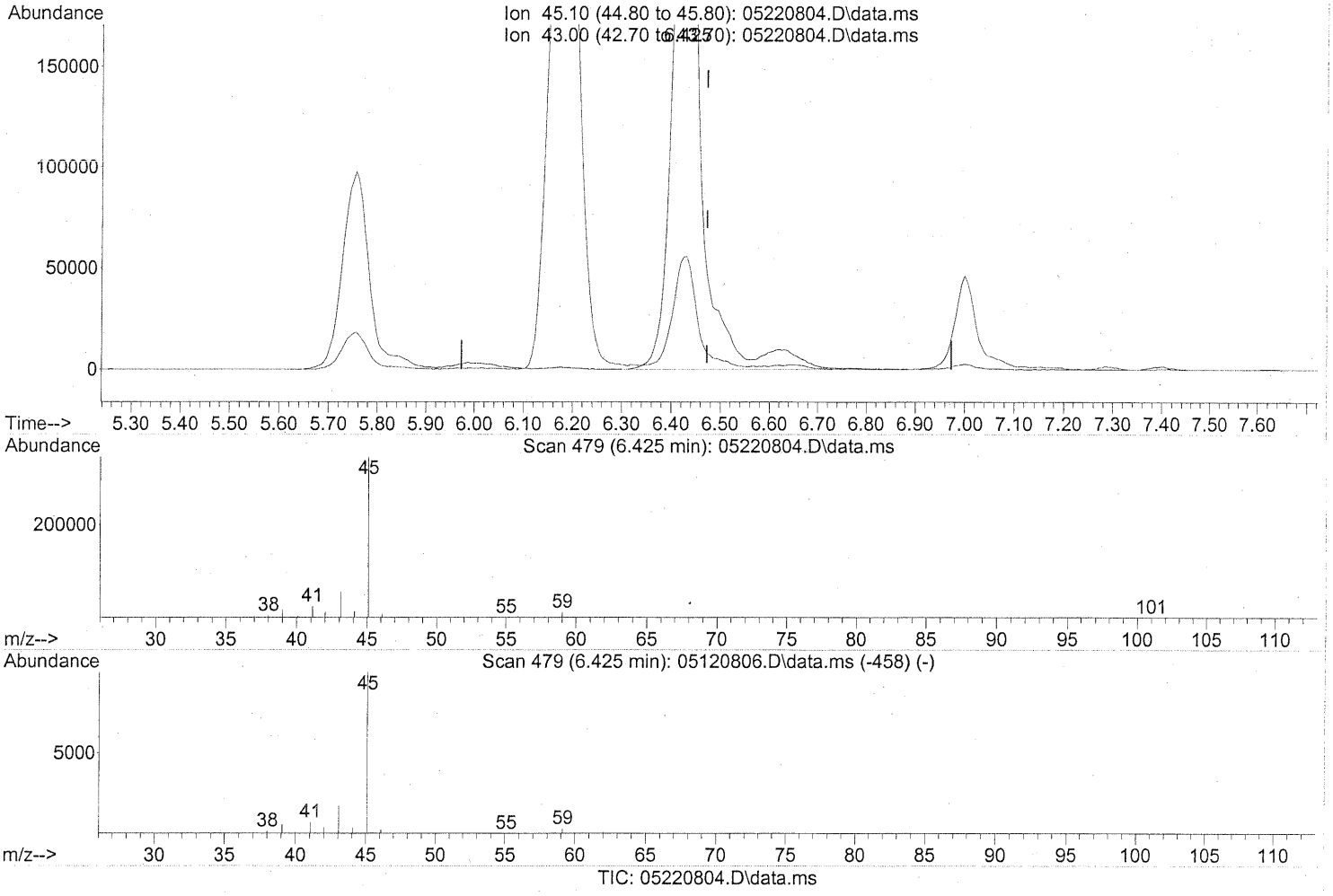
split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	17.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 9:20 am
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05050806
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 14:43:07 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.425min (-0.048) 19.66ng m

response 1230136

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.67
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

AM 5/22/08

Em 5/22/08

951

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080524-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Rusty Bravo Date Analyzed: 5/24/08
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
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	**20.2**	**79**	69-117	
74-87-3	Chloromethane	24.5	**18.3**	**75**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**21.4**	**82**	58-133	
75-01-4	Vinyl Chloride	24.8	**21.1**	**85**	61-127	
74-83-9	Bromomethane	25.0	**21.8**	**87**	67-124	
75-00-3	Chloroethane	25.0	**21.7**	**87**	69-123	
64-17-5	Ethanol	23.8	**18.3**	**77**	56-137	
67-64-1	Acetone	26.8	**22.9**	**85**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**21.9**	**83**	71-120	
107-13-1	Acrylonitrile	25.5	**23.0**	**90**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**23.8**	**86**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**23.2**	**90**	35-141	
75-09-2	Methylene Chloride	27.8	**22.6**	**81**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**29.0**	**108**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**23.2**	**83**	63-129	
75-15-0	Carbon Disulfide	25.0	**20.7**	**83**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**23.6**	**89**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**23.2**	**87**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**23.1**	**86**	72-119	
108-05-4	Vinyl Acetate	25.3	**29.2**	**115**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**23.7**	**88**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**23.1**	**86**	74-117	
108-20-3	Diisopropyl Ether	26.3	**22.8**	**87**	70-131	
67-66-3	Chloroform	29.8	**26.2**	**88**	72-113	

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080524-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Rusty Bravo Date Analyzed: 5/24/08
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	**22.9**	**88**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**22.2**	**84**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**23.0**	**86**	78-114	
71-43-2	Benzene	27.0	**23.2**	**86**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**23.6**	**91**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**23.3**	**90**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**23.2**	**88**	78-117	
75-27-4	Bromodichloromethane	27.8	**25.4**	**91**	77-120	
79-01-6	Trichloroethene	27.3	**21.8**	**80**	80-116	
123-91-1	1,4-Dioxane	27.5	**23.9**	**87**	79-122	
80-62-6	Methyl Methacrylate	25.8	**23.7**	**92**	79-128	
142-82-5	n-Heptane	26.8	**23.8**	**89**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**23.5**	**94**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**22.7**	**83**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**27.2**	**97**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**23.3**	**89**	80-117	
108-88-3	Toluene	26.5	**23.2**	**88**	76-116	
591-78-6	2-Hexanone	26.3	**21.6**	**82**	69-131	
124-48-1	Dibromochloromethane	27.0	**25.4**	**94**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**23.8**	**90**	79-122	
111-65-9	n-Octane	26.0	**23.7**	**91**	78-122	
127-18-4	Tetrachloroethene	26.0	**22.6**	**87**	77-118	
108-90-7	Chlorobenzene	26.5	**23.1**	**87**	78-117	

Verified By: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080524-LCS

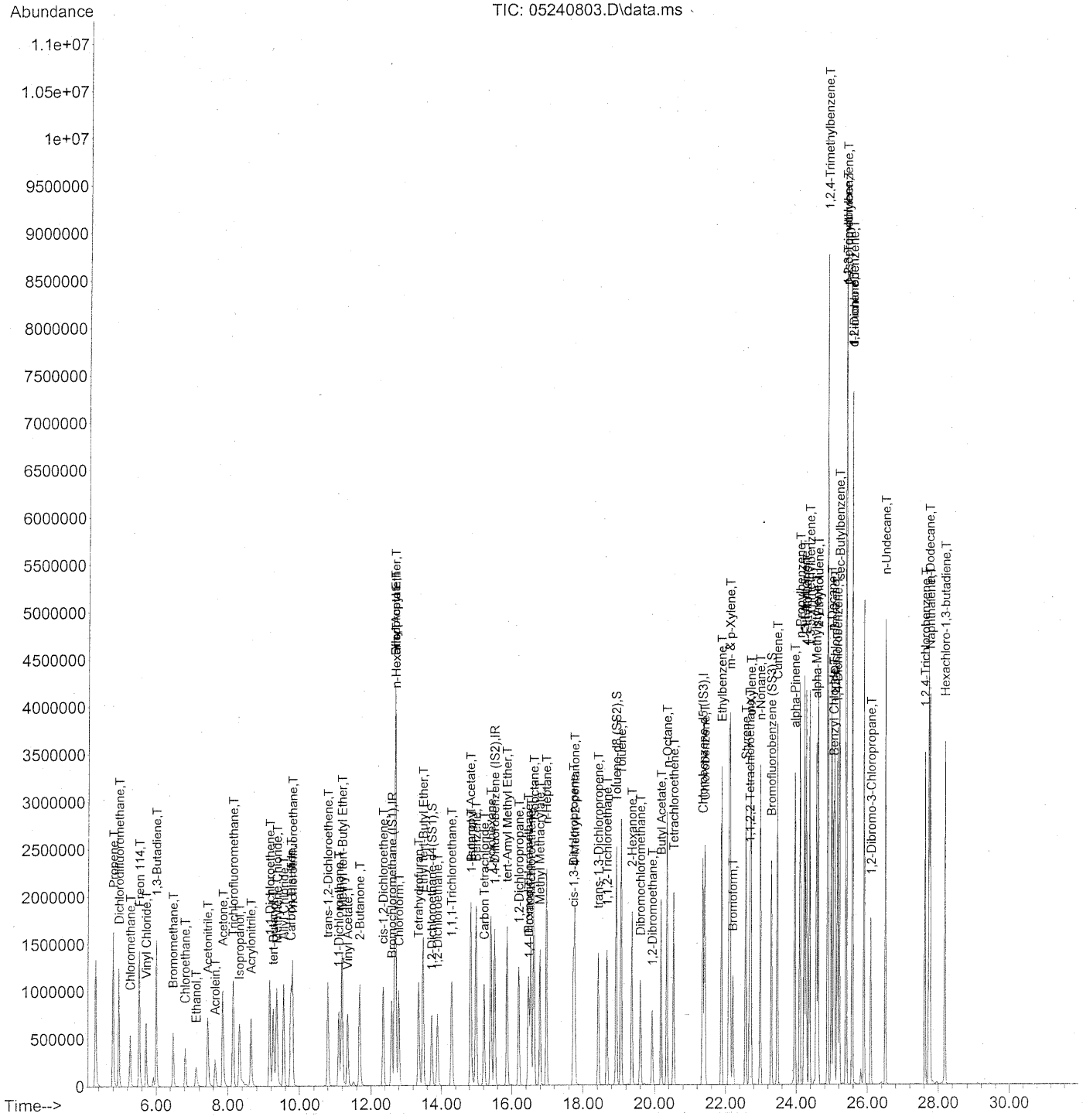
Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: NA
Analyst: Rusty Bravo Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**23.4**	**89**	79-116	
179601-23-1	m,p-Xylenes	62.5	**55.8**	**89**	80-117	
75-25-2	Bromoform	31.3	**31.8**	**102**	77-128	
100-42-5	Styrene	26.3	**23.7**	**90**	80-124	
95-47-6	o-Xylene	29.8	**26.5**	**89**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.5**	**99**	79-120	
98-82-8	Cumene	27.0	**24.4**	**90**	81-119	
103-65-1	n-Propylbenzene	26.3	**24.3**	**92**	82-120	
622-96-8	4-Ethyltoluene	26.5	**24.2**	**91**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**23.2**	**89**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**20.9**	**82**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**24.0**	**92**	80-122	
100-44-7	Benzyl Chloride	25.8	**29.0**	**112**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**23.5**	**92**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**24.1**	**92**	81-119	
135-98-8	sec-Butylbenzene	26.8	**24.7**	**92**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**28.0**	**97**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**23.6**	**91**	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	**24.2**	**93**	75-138	
91-20-3	Naphthalene	26.3	**23.6**	**90**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**24.1**	**92**	72-128	
98-06-6	tert-Butylbenzene	26.3	**24.4**	**93**	70-130	
104-51-8	n-Butylbenzene	26.8	**25.1**	**94**	70-130	

Verified By: RC Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	459665	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.52	114	1955735	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	929197	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	761312	23.903	ng		0.00
Spiked Amount 25.000			Recovery =	95.60%			
57) Toluene-d8 (SS2)	18.93	98	2082613	24.956	ng		0.00
Spiked Amount 25.000			Recovery =	99.84%			
73) Bromofluorobenzene (SS3)	23.29	174	876143	25.818	ng		0.00
Spiked Amount 25.000			Recovery =	103.28%			
Target Compounds							Qvalue
2) Propene	4.79	42	764273	21.052	ng		89
3) Dichlorodifluoromethane	4.96	85	1351527	20.198	ng		100
4) Chloromethane	5.28	50	791569	18.268	ng		97
5) Freon 114	5.53	135	704940	21.416	ng		99
6) Vinyl Chloride	5.72	62	913764	21.077	ng		96
7) 1,3-Butadiene	6.00	54	856431	26.557	ng	#	78
8) Bromomethane	6.48	94	527431	21.845	ng		99
9) Chloroethane	6.82	64	447767	21.742	ng		96
10) Ethanol	7.11	45	442261m	18.299	ng		
11) Acetonitrile	7.43	41	1273619	18.223	ng		96
12) Acrolein	7.64	56	365942	21.196	ng		99
13) Acetone	7.86	58	567178	22.921	ng	#	64
14) Trichlorofluoromethane	8.14	101	1255730	21.873	ng		99
15) Isopropanol	8.32	45	1521907	19.285	ng		94
16) Acrylonitrile	8.64	53	867151	23.015	ng		97
17) 1,1-Dichloroethene	9.16	96	600845	23.792	ng	#	79
18) tert-Butanol	9.26	59	1554255	23.154	ng		91
19) Methylene Chloride	9.36	84	624713	22.590	ng	#	81
20) Allyl Chloride	9.55	41	1068545	28.958	ng		99
21) Trichlorotrifluoroethane	9.81	151	604969	23.172	ng		93
22) Carbon Disulfide	9.76	76	2170880	20.687	ng		97
23) trans-1,2-Dichloroethene	10.80	61	964459	23.578	ng		85
24) 1,1-Dichloroethane	11.10	63	1113250	23.200	ng		95
25) Methyl tert-Butyl Ether	11.19	73	1845924	23.069	ng		86
26) Vinyl Acetate	11.35	86	133409	29.172	ng	#	88
27) 2-Butanone	11.68	72	428173	23.708	ng	#	92
28) cis-1,2-Dichloroethene	12.35	61	903449	23.109	ng		83
29) Diisopropyl Ether	12.69	87	503605	22.757	ng	#	86
30) Ethyl Acetate	12.69	61	253334	25.985	ng		81
31) n-Hexane	12.70	57	1157427	23.528	ng		89

JDH 5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.80	83	1098752	26.213	ng		99
34) Tetrahydrofuran	13.35	72	384722	22.282	ng		94
35) Ethyl tert-Butyl Ether	13.48	87	709428	22.892	ng	#	75
36) 1,2-Dichloroethane	13.89	62	900994	22.249	ng		98
38) 1,1,1-Trichloroethane	14.29	97	1025801	23.031	ng		97
39) Isopropyl Acetate	14.83	61	414160	24.793	ng	#	53
40) 1-Butanol	14.84	56	468728	17.436	ng	#	49
41) Benzene	14.99	78	2374678	23.190	ng		100
42) Carbon Tetrachloride	15.22	117	929244	23.563	ng		99
43) Cyclohexane	15.41	84	913648	22.936	ng	#	76
44) tert-Amyl Methyl Ether	15.87	73	1712508	23.312	ng		94
45) 1,2-Dichloropropane	16.20	63	635232	23.184	ng		99
46) Bromodichloromethane	16.46	83	879095	25.397	ng		99
47) Trichloroethene	16.54	130	685221	21.813	ng		100
48) 1,4-Dioxane	16.49	88	461646	23.902	ng		81
49) Isooctane	16.62	57	2732811	23.276	ng		81
50) Methyl Methacrylate	16.79	100	242311	23.679	ng	#	86
51) n-Heptane	16.98	71	646609	23.764	ng	#	80
52) cis-1,3-Dichloropropene	17.73	75	957220	23.516	ng		99
53) 4-Methyl-2-pentanone	17.77	58	617461	22.711	ng		78
54) trans-1,3-Dichloropropene	18.43	75	954282	27.176	ng		99
55) 1,1,2-Trichloroethane	18.67	97	588860	23.270	ng		97
58) Toluene	19.07	91	2628623	23.173	ng		98
59) 2-Hexanone	19.37	43	1691031	21.634	ng		83
60) Dibromochloromethane	19.60	129	776755	25.352	ng		99
61) 1,2-Dibromoethane	19.94	107	706775	23.803	ng		100
62) Butyl Acetate	20.19	43	1889152	23.812	ng		87
63) n-Octane	20.35	57	594141	23.683	ng		90
64) Tetrachloroethene	20.55	166	758495	22.597	ng		100
65) Chlorobenzene	21.41	112	1758259	23.120	ng		99
66) Ethylbenzene	21.89	91	3047800	23.432	ng		95
67) m- & p-Xylene	22.13	91	4857633	55.832	ng		92
68) Bromoform	22.21	173	725813	31.835	ng		99
69) Styrene	22.57	104	1840679	23.667	ng		97
70) o-Xylene	22.72	91	2485529	26.465	ng		93
71) n-Nonane	22.98	43	1573242	23.591	ng	#	84
72) 1,1,2,2-Tetrachloroethane	22.69	83	1154673	29.499	ng		97
74) Cumene	23.46	105	3048144	24.372	ng		99
75) alpha-Pinene	23.96	93	1512571	23.390	ng		97
76) n-Propylbenzene	24.10	91	3861617	24.266	ng		98
77) 3-Ethyltoluene	24.23	105	3150317	23.665	ng		100
78) 4-Ethyltoluene	24.28	105	3005606	24.218	ng		100
79) 1,3,5-Trimethylbenzene	24.38	105	2598321	23.175	ng		99

5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

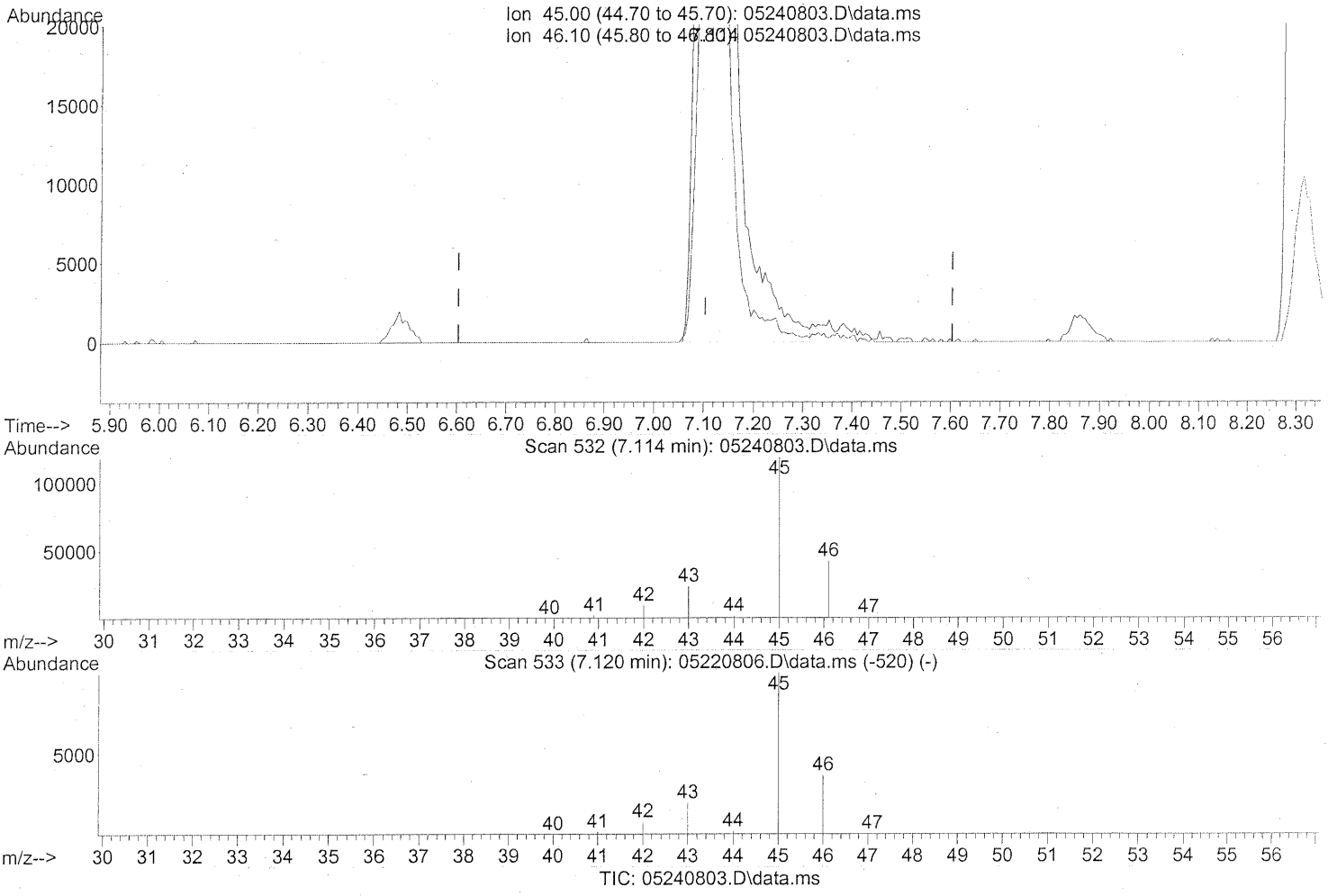
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1269536	20.914	ng	98
81) 2-Ethyltoluene	24.61	105	3118215	23.113	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	2734676	23.957	ng	100
83) n-Decane	24.98	57	1560356	24.844	ng	86
84) Benzyl Chloride	25.05	91	2219646	28.979	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1675075	23.471	ng	99
86) 1,4-Dichlorobenzene	25.15	146	1670624	24.147	ng	99
87) sec-Butylbenzene	25.21	105	3598377	24.664	ng	98
88) p-Isopropyltoluene	25.40	119	3365362	28.022	ng	95
89) 1,2,3-Trimethylbenzene	25.41	105	2931617	26.247	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1597527	23.602	ng	99
91) d-Limonene	25.58	68	934174	20.542	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	576599	27.449	ng	94
93) n-Undecane	26.50	57	1628612	24.777	ng	84
94) 1,2,4-Trichlorobenzene	27.62	180	1201814	24.242	ng	95
95) Naphthalene	27.77	128	3551344	23.588	ng	99
96) n-Dodecane	27.74	57	1572939	24.062	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	794356	24.070	ng	100

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

5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:32 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240803.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 18.00ng

response 435050

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.70
0.00	0.00	0.00
0.00	0.00	0.00

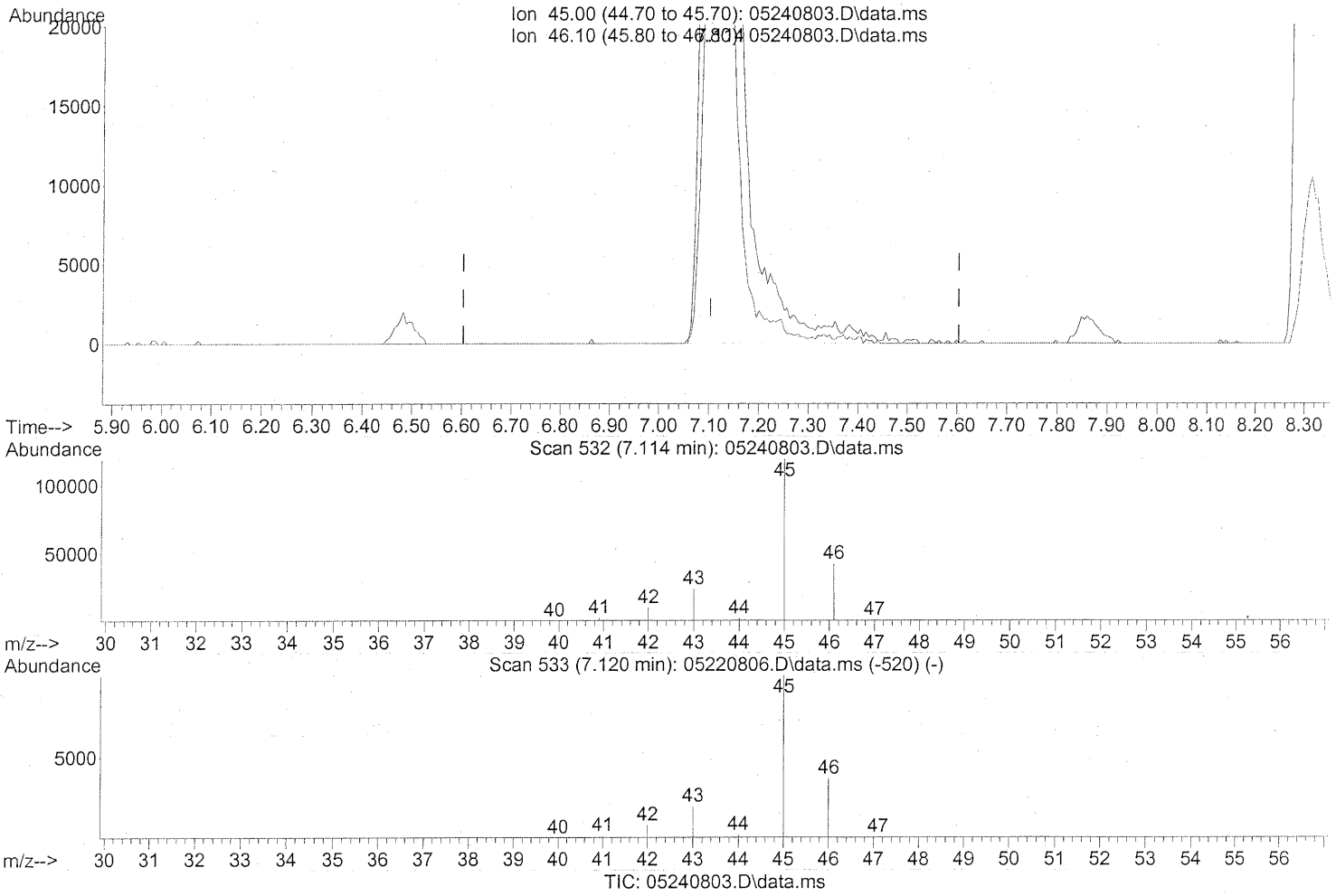
tailing

959

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 09:28:32 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 18.30ng m

response 442261

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.09
0.00	0.00	0.00
0.00	0.00	0.00

added tailing

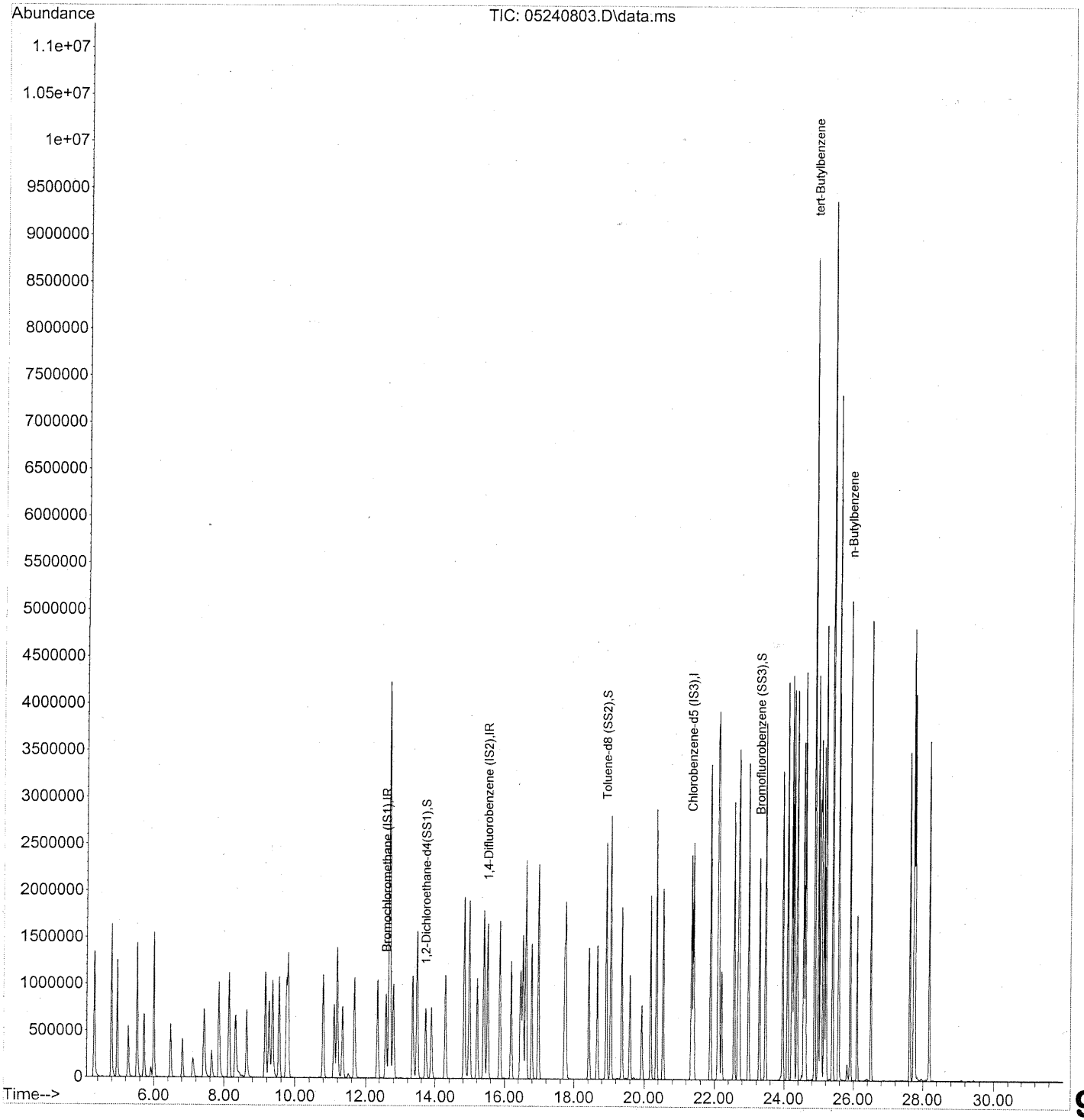
5/24/08

5/30/08

960

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:36:00 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



961

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240803.D
Acq On : 24 May 2008 8:23
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:36:00 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	459665	25.000	ng	0.00
3) 1,4-Difluorobenzene (IS2)	15.52	114	1955735	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	929197	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	761312	23.903	ng	-0.02
Spiked Amount 25.000			Recovery =	95.60%		
5) Toluene-d8 (SS2)	18.93	98	2082613	24.956	ng	-0.01
Spiked Amount 25.000			Recovery =	99.84%		
6) Bromofluorobenzene (SS3)	23.29	174	876143	25.818	ng	0.00
Spiked Amount 25.000			Recovery =	103.28%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	2664902	24.423	ng	99
8) n-Butylbenzene	25.91	91	3022217	25.045	ng	98

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

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	2.24	0.453	-	-	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	3.84	2.04	3.76	2.00	3.8	**2**	25	**J**
Acetone	14.1	5.95	13.1	5.51	13.6	**7**	25	**J, B**
Trichlorofluoromethane	ND	ND	ND	ND	-	-	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	2.40	0.691	ND	ND	-	-	25	**J**
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	10.6	3.42	10.9	3.51	10.75	**3**	25	**J**
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	4,700	962	4,670	956	4685	**0.6**	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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05** CAS Project ID: P0801442
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15 Date Collected: 5/15/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/16/08
Analyst: Wida Ang Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.040 Liter(s)
Test Notes:
Container ID: SC00693

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

Canister Dilution Factor: 1.60

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	14.3	2.63	15.0	2.74	14.65	**5**	25	
Benzene	2.04	0.639	ND	ND	-	-	25	**J**
Carbon Tetrachloride	7.56	1.20	7.40	1.18	7.48	**2**	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	5.08	0.759	4.32	0.645	4.7	**16**	25	
Trichloroethene	137	25.5	137	25.4	137	**0**	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	23.5	6.23	23.8	6.33	23.65	**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	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	2,260	334	2,240	331	2250	**0.9**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

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

Verified By: Rc Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG35B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801442
CAS Sample ID: P0801442-014DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00693

Date Collected: 5/15/08
Date Received: 5/16/08
Date Analyzed: 5/24/08
Volume(s) Analyzed: 0.040 Liter(s)

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

Canister Dilution Factor: 1.60

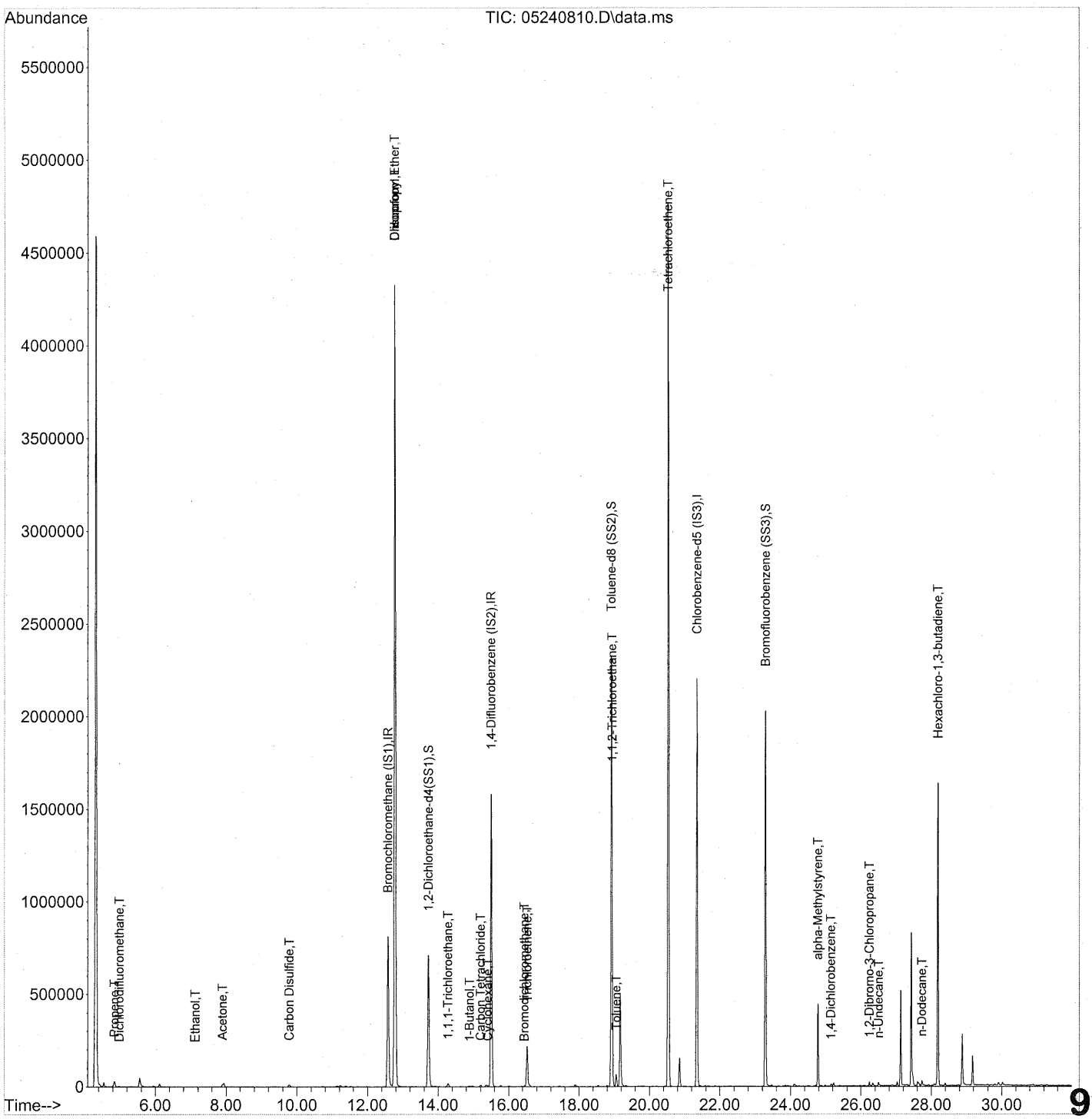
Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
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	ND	ND	ND	ND	-	-	25	
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	2.48	0.413	2.48	0.413	2.48	**0**	25	**J**
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	457	42.8	461	43.2	459	**0.9**	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: RO Date: 6/2/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	413362	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1798004	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	843834	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	725857	25.343	ng		0.00
Spiked Amount 25.000			Recovery = 101.36%				
57) Toluene-d8 (SS2)	18.92	98	1914098	25.257	ng		0.00
Spiked Amount 25.000			Recovery = 101.04%				
73) Bromofluorobenzene (SS3)	23.29	174	762405	24.739	ng		0.00
Spiked Amount 25.000			Recovery = 98.96%				
Target Compounds							Qvalue
2) Propene	4.85	42	5013	0.154	ng	#	1
3) Dichlorodifluoromethane	4.99	85	3342	0.056	ng		86
4) Chloromethane	5.32	50	228	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	0.00	54	0	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	6.85	64	196	N.D.			
10) Ethanol	7.12	45	2049	0.094	ng	#	65
11) Acetonitrile	7.46	41	1246	N.D.			
12) Acrolein	7.69	56	753	N.D.			
13) Acetone	7.89	58	7281	0.327	ng	#	34
14) Trichlorofluoromethane	8.16	101	2214	N.D.			
15) Isopropanol	8.34	45	2625	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	9.19	96	482	N.D.			
18) tert-Butanol	9.28	59	569	N.D.			
19) Methylene Chloride	9.37	84	1237	N.D.			
20) Allyl Chloride	9.38	41	130	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	9.78	76	25807	0.273	ng		100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	11.09	63	546	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	11.38	86	52	N.D.			
27) 2-Butanone	11.74	72	768	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.78	87	460009	23.115	ng UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	12.70	57	326	N.D.			

967

MM 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	4398904	116.702 ng		100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	401	N.D.		
38) 1,1,1-Trichloroethane	14.28	97	15334	0.374 ng		94
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	5115	0.207 ng		94
41) Benzene	14.99	78	4529	N.D.		
42) Carbon Tetrachloride	15.21	117	6715	0.185 ng		99
43) Cyclohexane	15.41	84	2039	0.056 ng	#	85
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.98	63	58	N.D.		
46) Bromodichloromethane	16.45	83	3437	0.108 ng		90
47) Trichloroethene	16.53	130	98697	3.417 ng		98
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	1005	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	168103	~~7.226 ng~~	UR#	7
58) Toluene	19.06	91	61375	0.596 ng		98
59) 2-Hexanone	19.36	43	168	N.D.		
60) Dibromochloromethane	19.59	129	379	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.22	43	67	N.D.		
63) n-Octane	20.53	57	123	N.D.		
64) Tetrachloroethene	20.54	166	1709737	56.090 ng		99
65) Chlorobenzene	21.41	112	853	N.D.		
66) Ethylbenzene	21.89	91	664	N.D.		
67) m- & p-Xylene	22.10	91	1030	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	350	N.D.		
71) n-Nonane	22.98	43	466	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.62	83	57	N.D.		
74) Cumene	23.46	105	685	N.D.		
75) alpha-Pinene	23.95	93	77	N.D.		
76) n-Propylbenzene	24.10	91	693	N.D.		
77) 3-Ethyltoluene	24.23	105	668	N.D.		
78) 4-Ethyltoluene	24.28	105	301	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	442	N.D.		

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MM 5/27/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	4972	~~0.090 ng~~ NR #	2
81) 2-Ethyltoluene	24.61	105	343	N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	1436	N.D. ✓	
83) n-Decane	24.98	57	1918	N.D.	
84) Benzyl Chloride	25.06	91	53	N.D. ✓	
85) 1,3-Dichlorobenzene	25.09	146	173	N.D. ✓	
86) 1,4-Dichlorobenzene	25.15	146	3898	0.062 ng	93
87) sec-Butylbenzene	25.41	105	588	N.D. ✓	
88) p-Isopropyltoluene	25.40	119	477	N.D. ✓	
89) 1,2,3-Trimethylbenzene	25.41	105	588	N.D. ✓	
90) 1,2-Dichlorobenzene	25.59	146	51	N.D. ✓	
91) d-Limonene	25.57	68	683	N.D.	
92) 1,2-Dibromo-3-Chloropr...	26.24	157	2221	~~0.116 ng~~ NR #	27
93) n-Undecane	26.50	57	6905	0.116 ng	82
94) 1,2,4-Trichlorobenzene	27.64	180	164	N.D. ✓	
95) Naphthalene	27.78	128	4023	N.D. ✓	
96) n-Dodecane	27.73	57	8380	0.141 ng	84
97) Hexachloro-1,3-butadiene	28.19	225	345300	11.522 ng	99

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

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5/27/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
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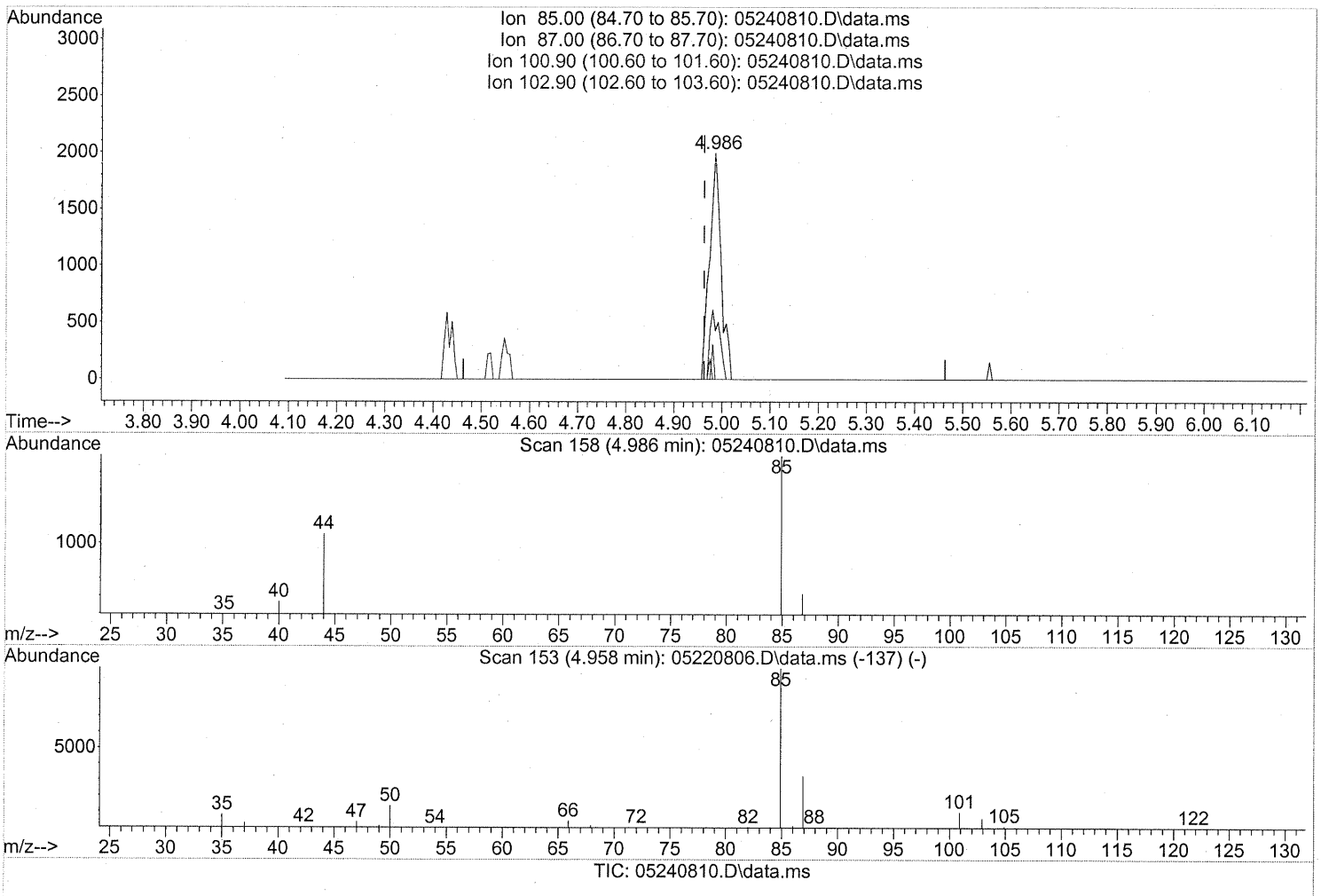
Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.06ng

response 3342

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	25.01
100.90	9.30	3.08
102.90	6.00	1.83

970

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
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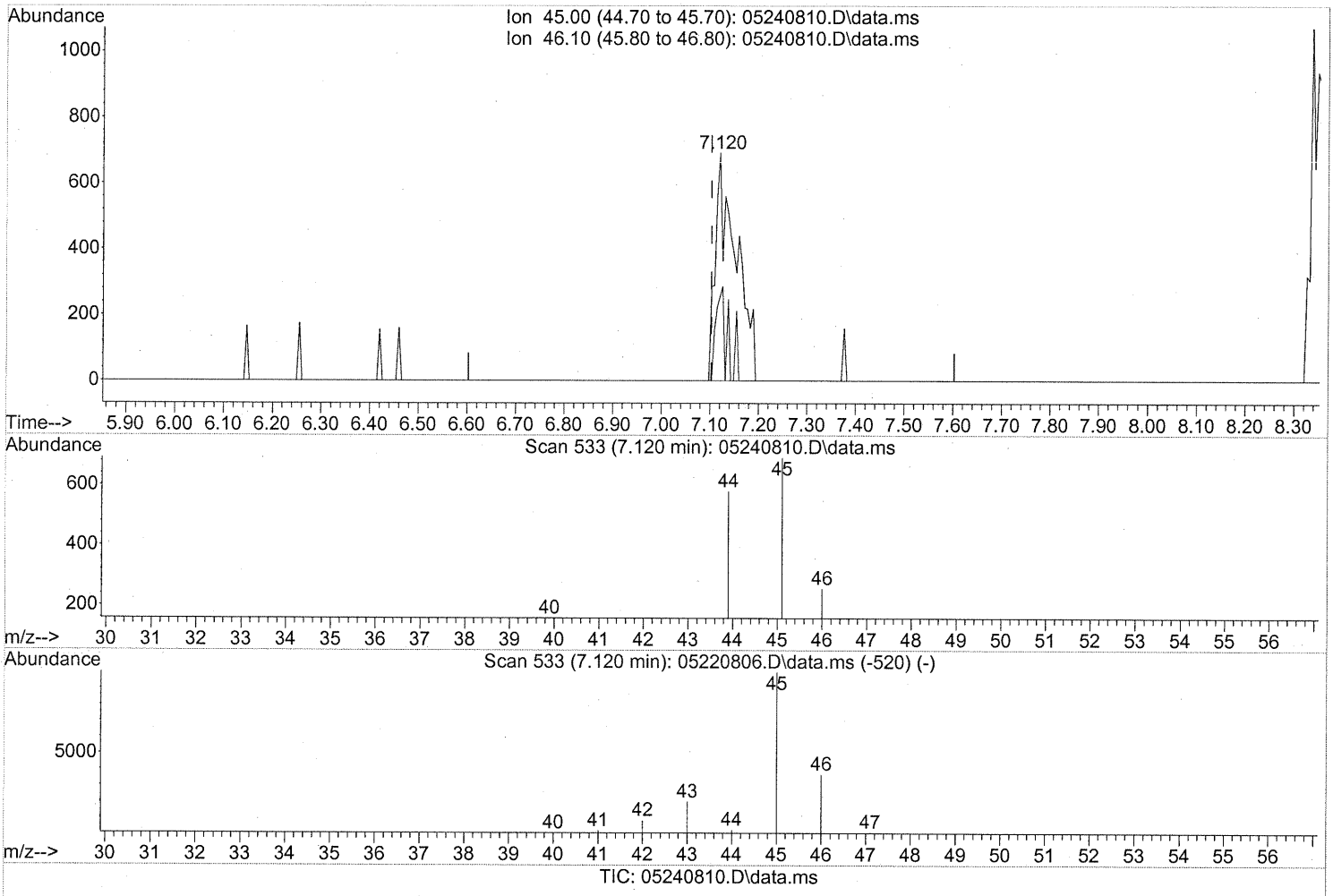
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(10) Ethanol (T)

7.120min (+0.017) 0.09ng

response 2049

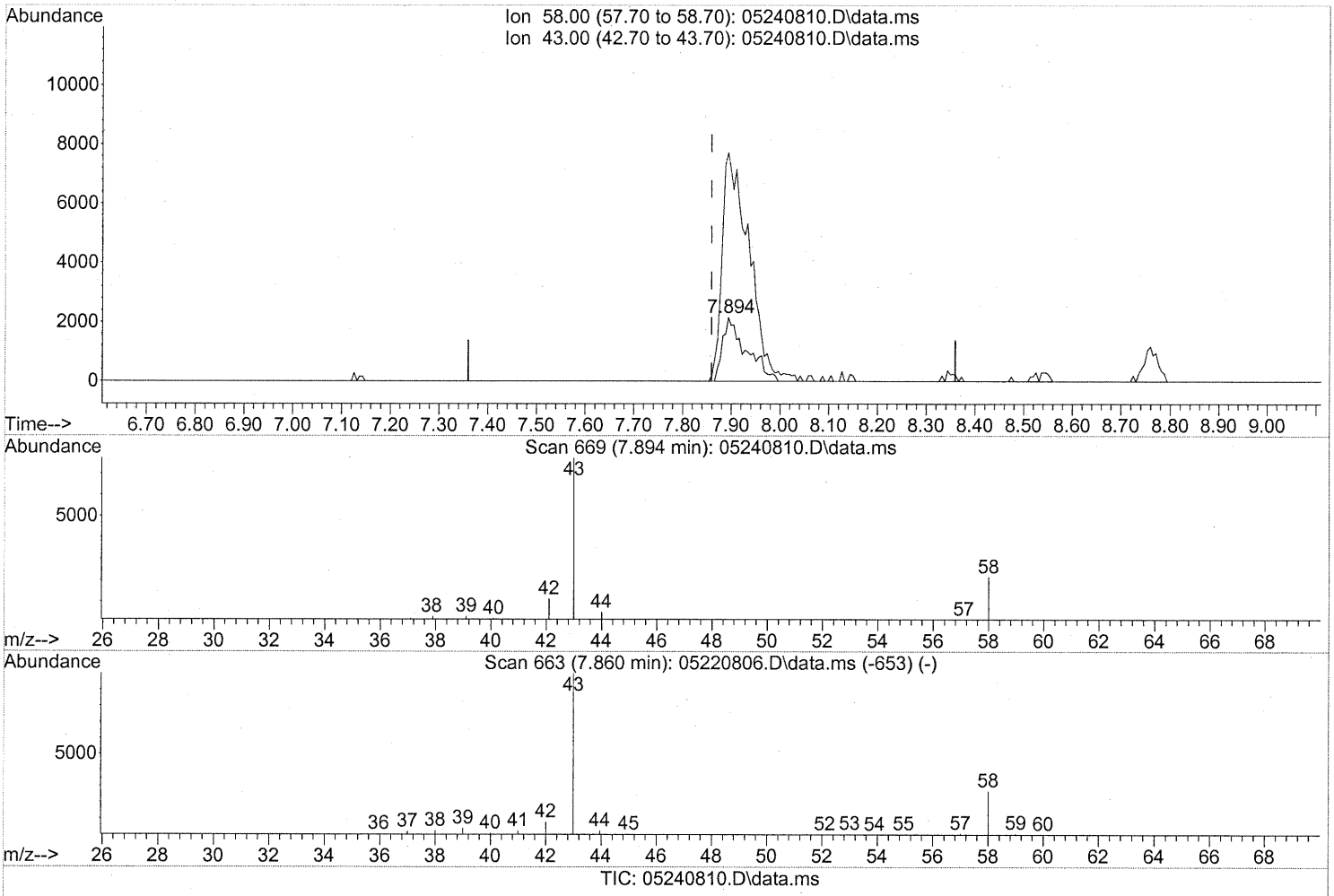
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	19.28#
0.00	0.00	0.00
0.00	0.00	0.00

971

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 0.33ng

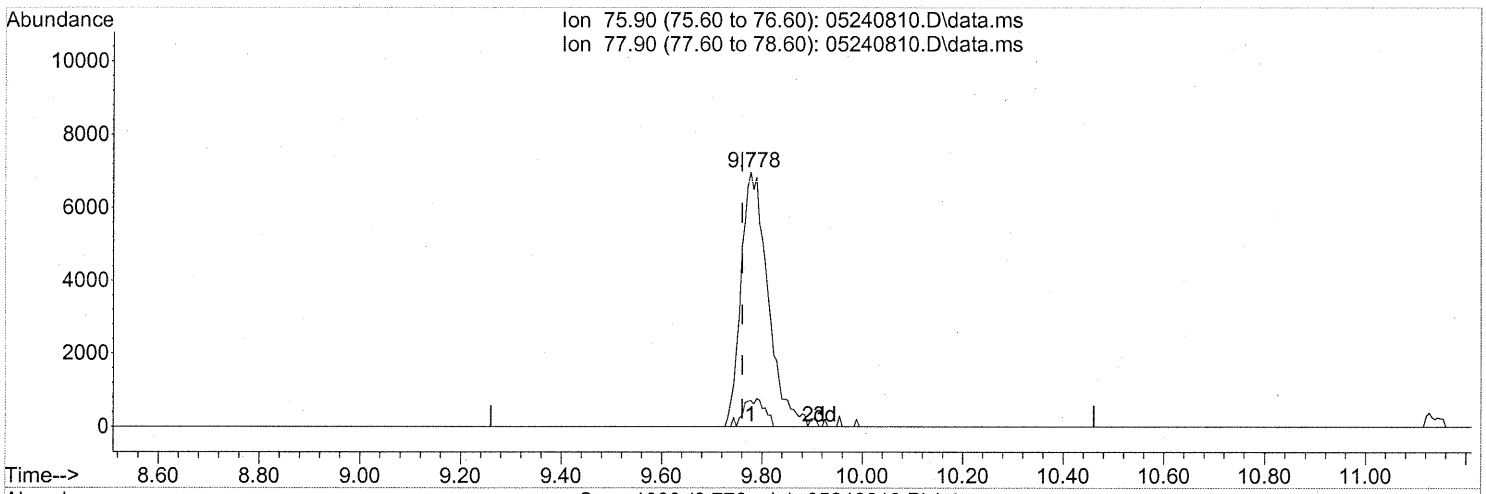
response 7281

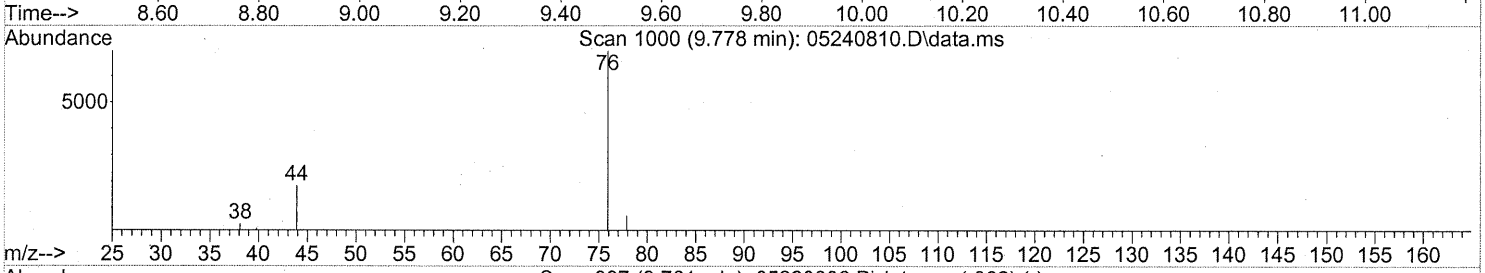
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	407.80#
0.00	0.00	0.00
0.00	0.00	0.00

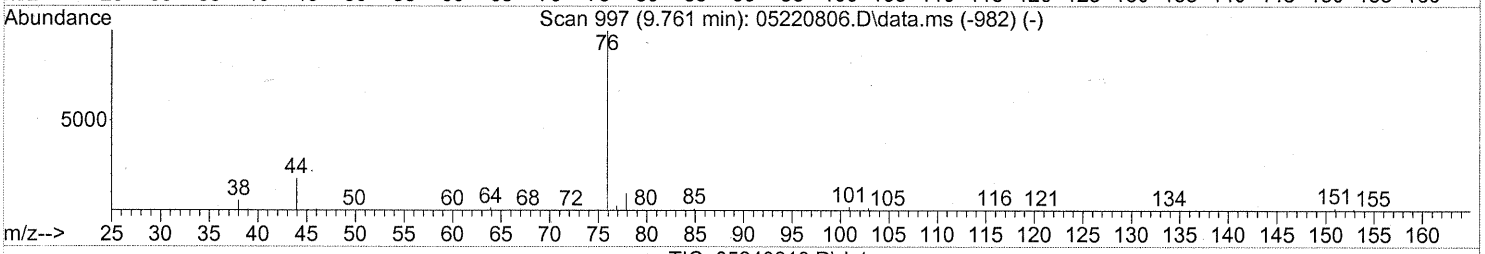
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240810.D\data.ms

(22) Carbon Disulfide (T)

9.778min (+0.017) 0.27ng

response 25807

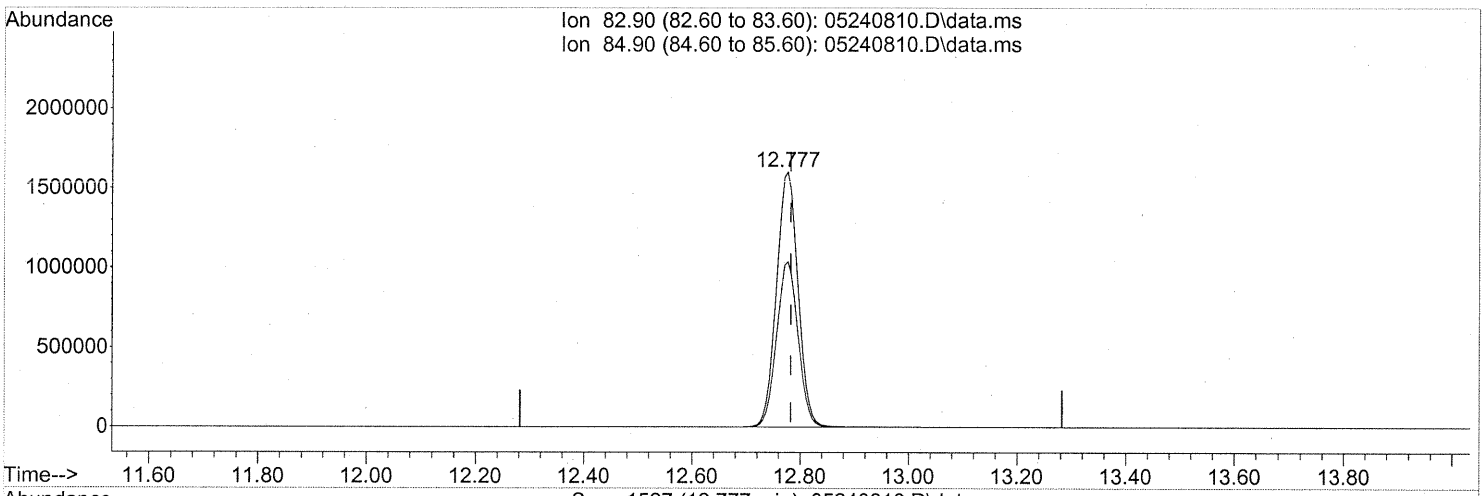
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.61
0.00	0.00	0.00
0.00	0.00	0.00

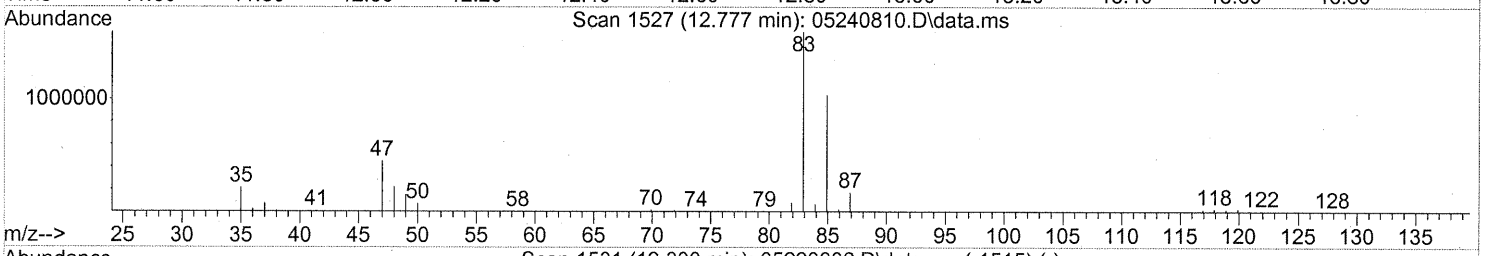
973

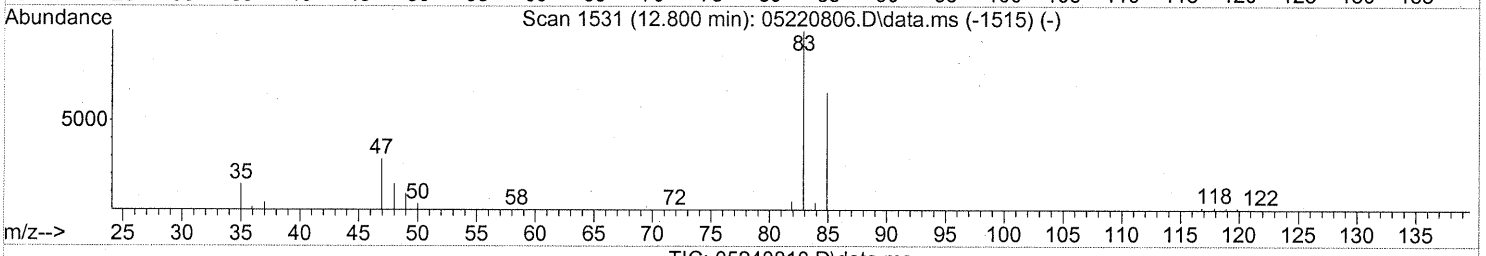
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration







TIC: 05240810.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 116.70ng

response 4398904

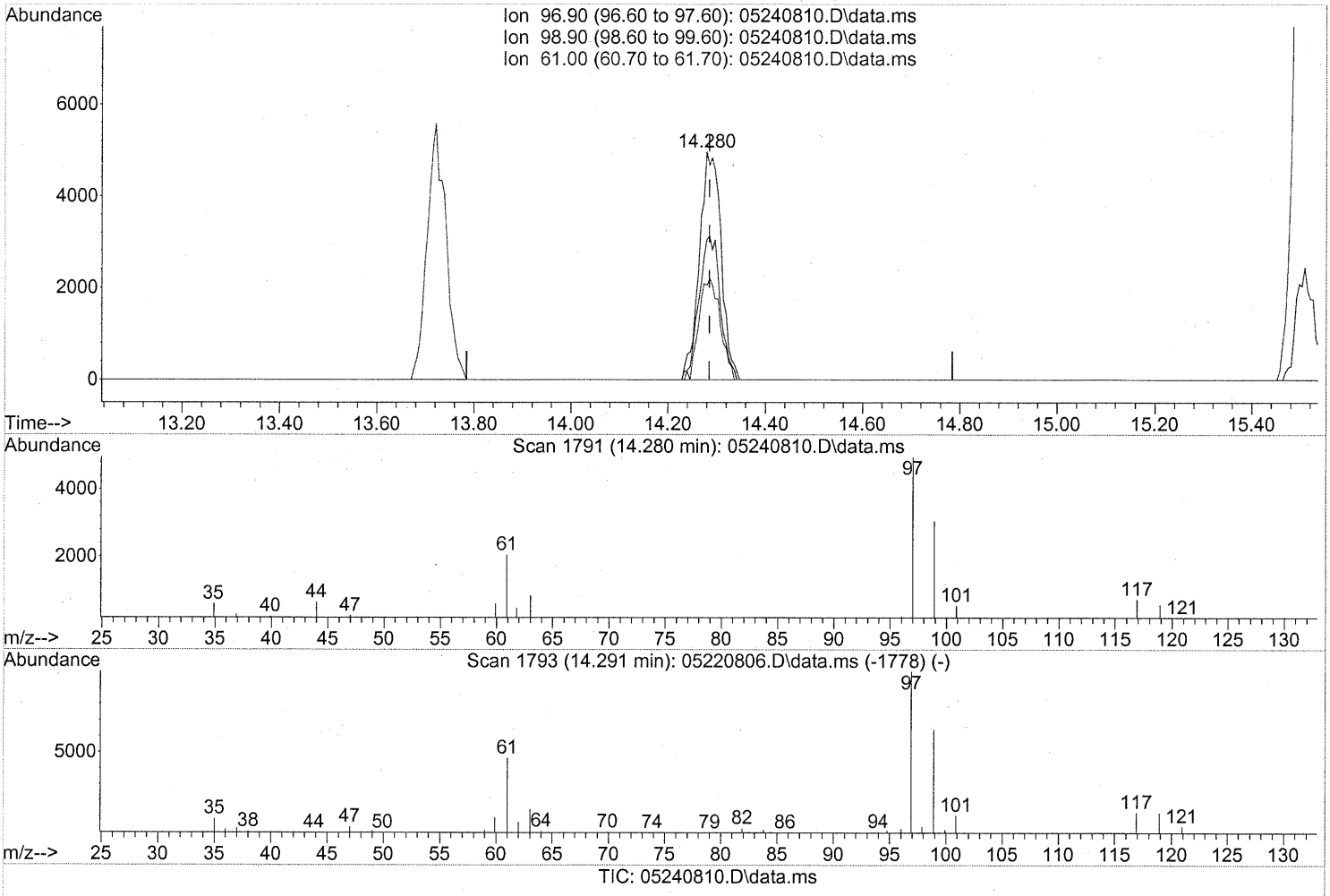
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.66
0.00	0.00	0.00
0.00	0.00	0.00

974

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.280min (-0.006) 0.37ng

response 15334

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	61.48
61.00	50.50	43.99
0.00	0.00	0.00

975

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
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Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

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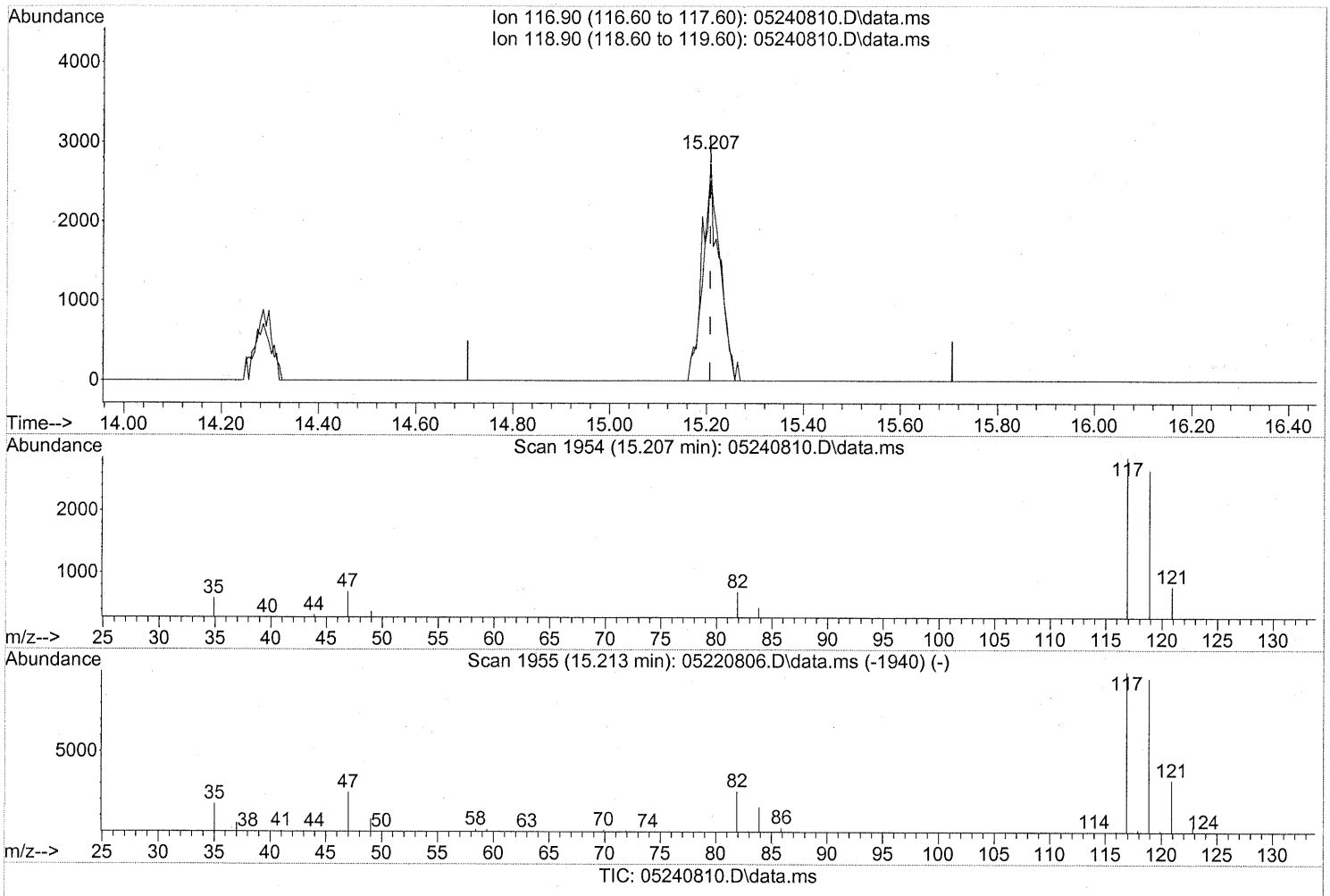
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (+0.000) 0.19ng

response 6715

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.23
0.00	0.00	0.00
0.00	0.00	0.00

976

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
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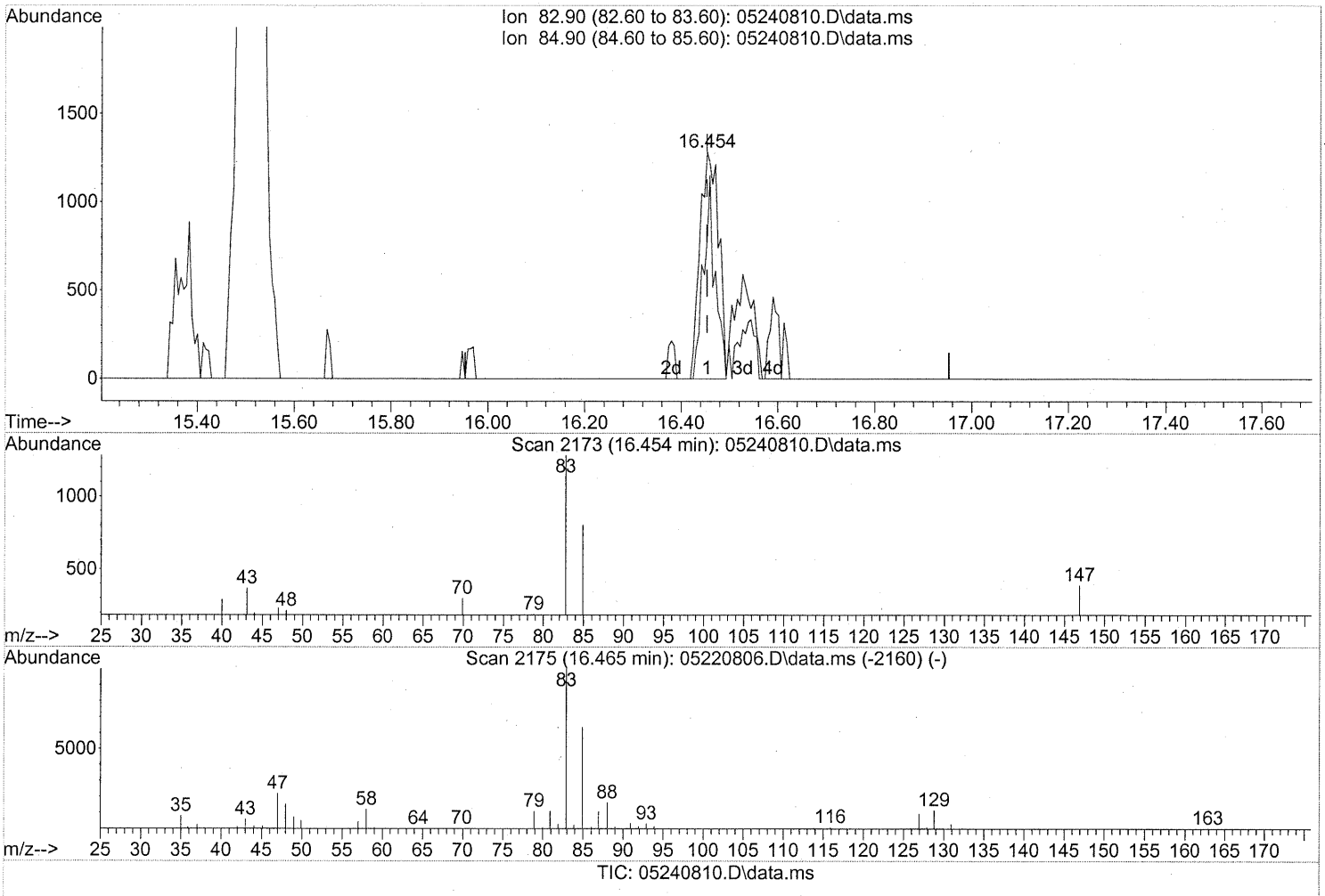
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(46) Bromodichloromethane (T)

16.454min (+0.000) 0.11ng

response 3437

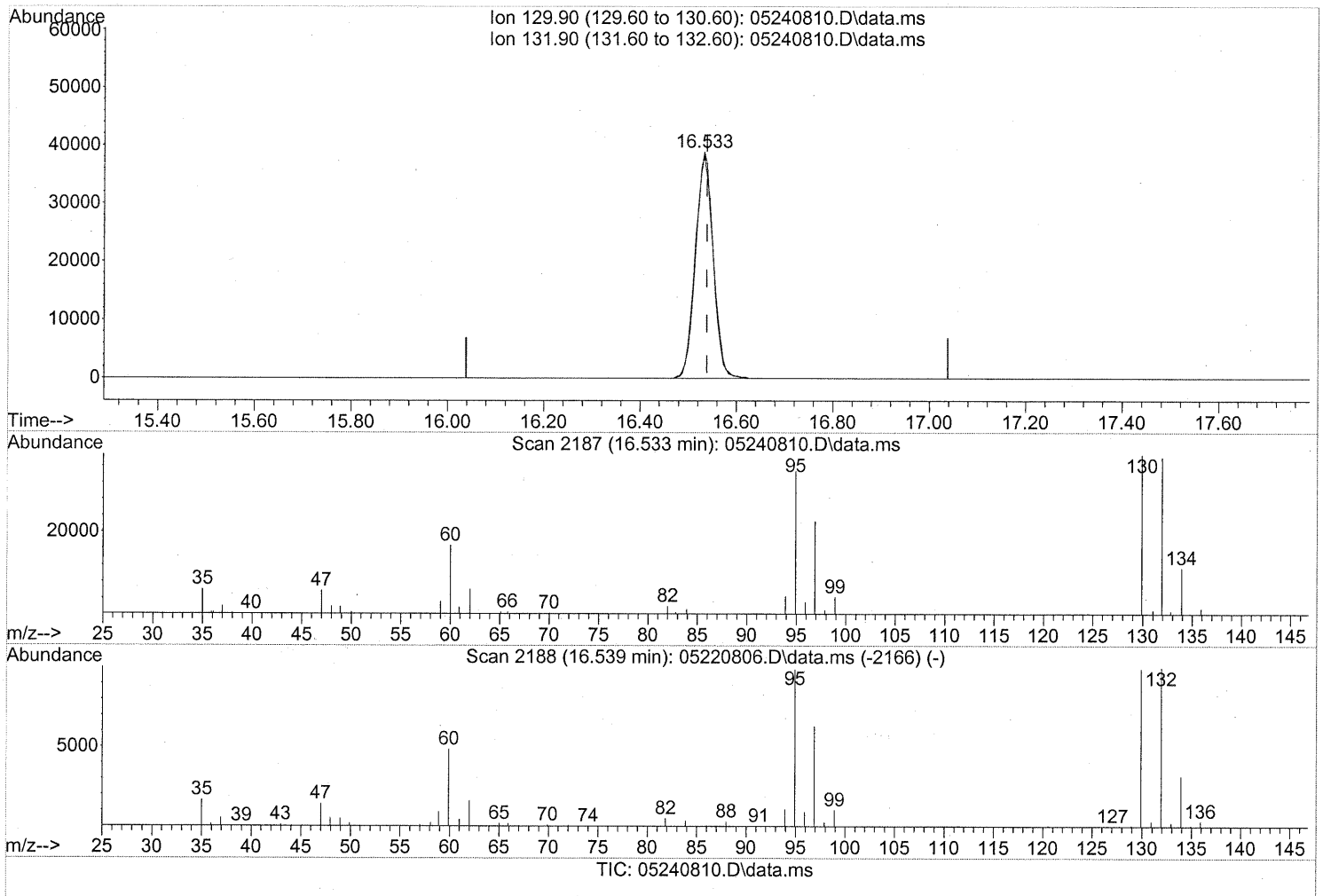
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	56.10
0.00	0.00	0.00
0.00	0.00	0.00

977

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 3.42ng

response 98697

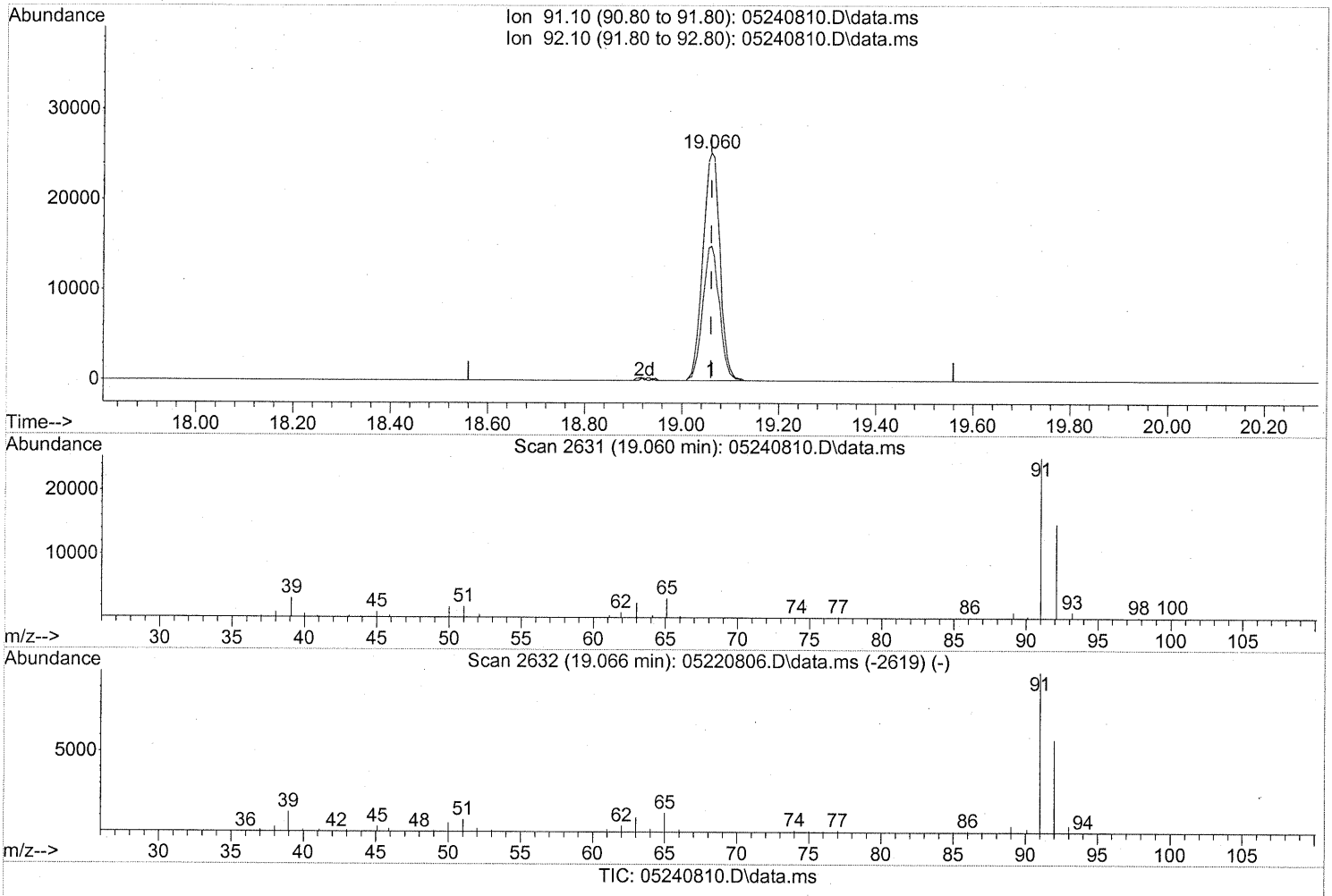
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.30
0.00	0.00	0.00
0.00	0.00	0.00

978

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 0.60ng

response 61375

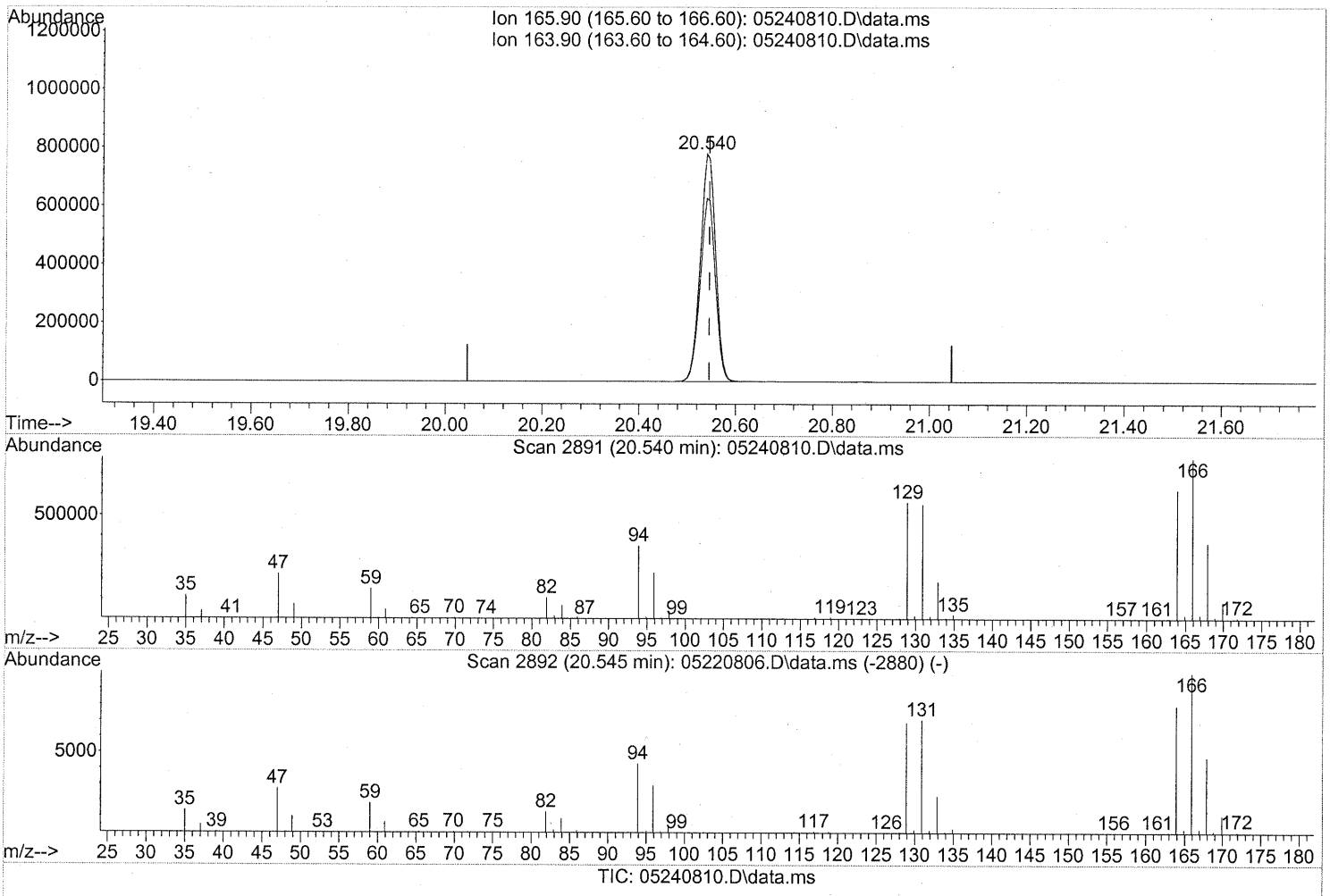
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.92
0.00	0.00	0.00
0.00	0.00	0.00

979

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 56.09ng

response 1709737

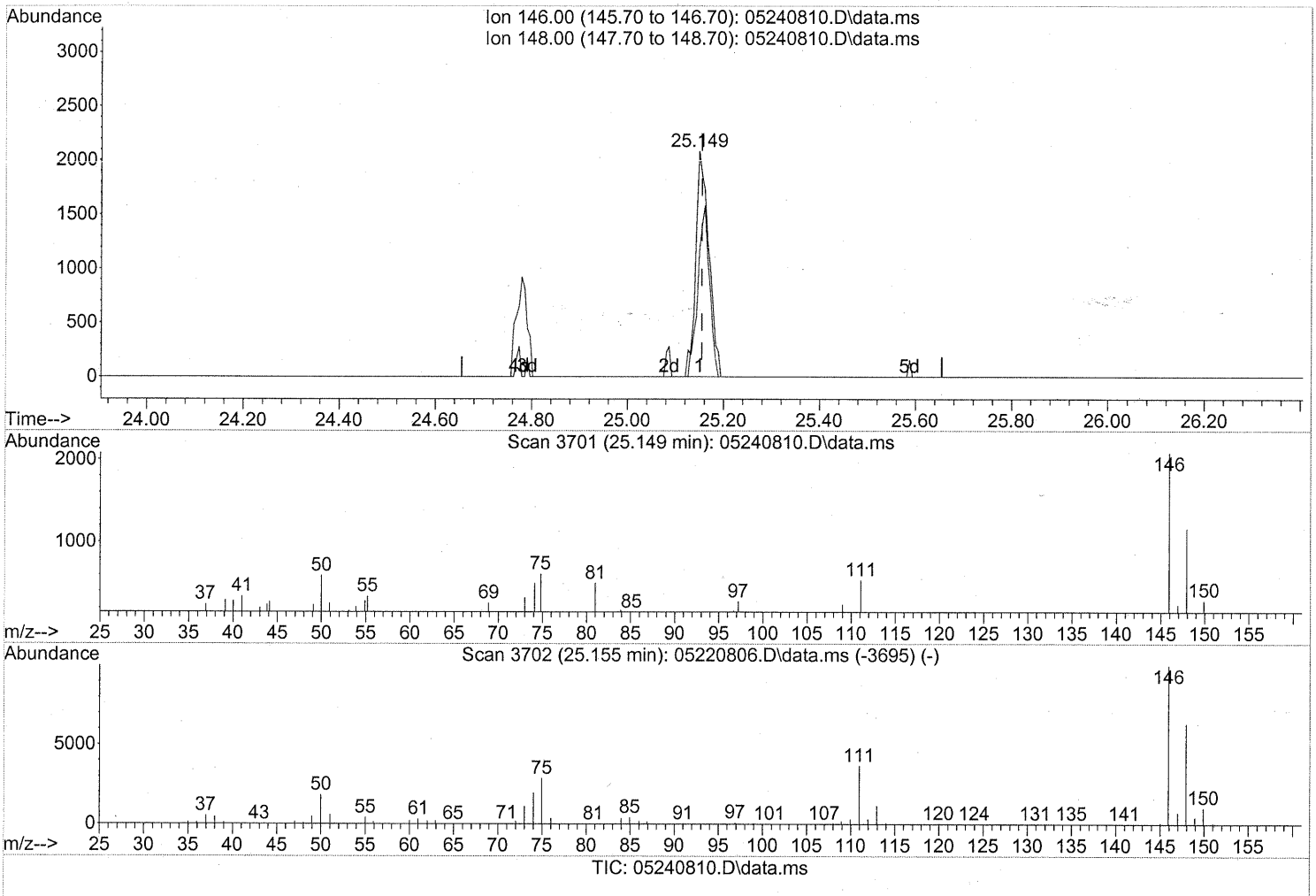
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.93
0.00	0.00	0.00
0.00	0.00	0.00

980

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.06ng

response 3898

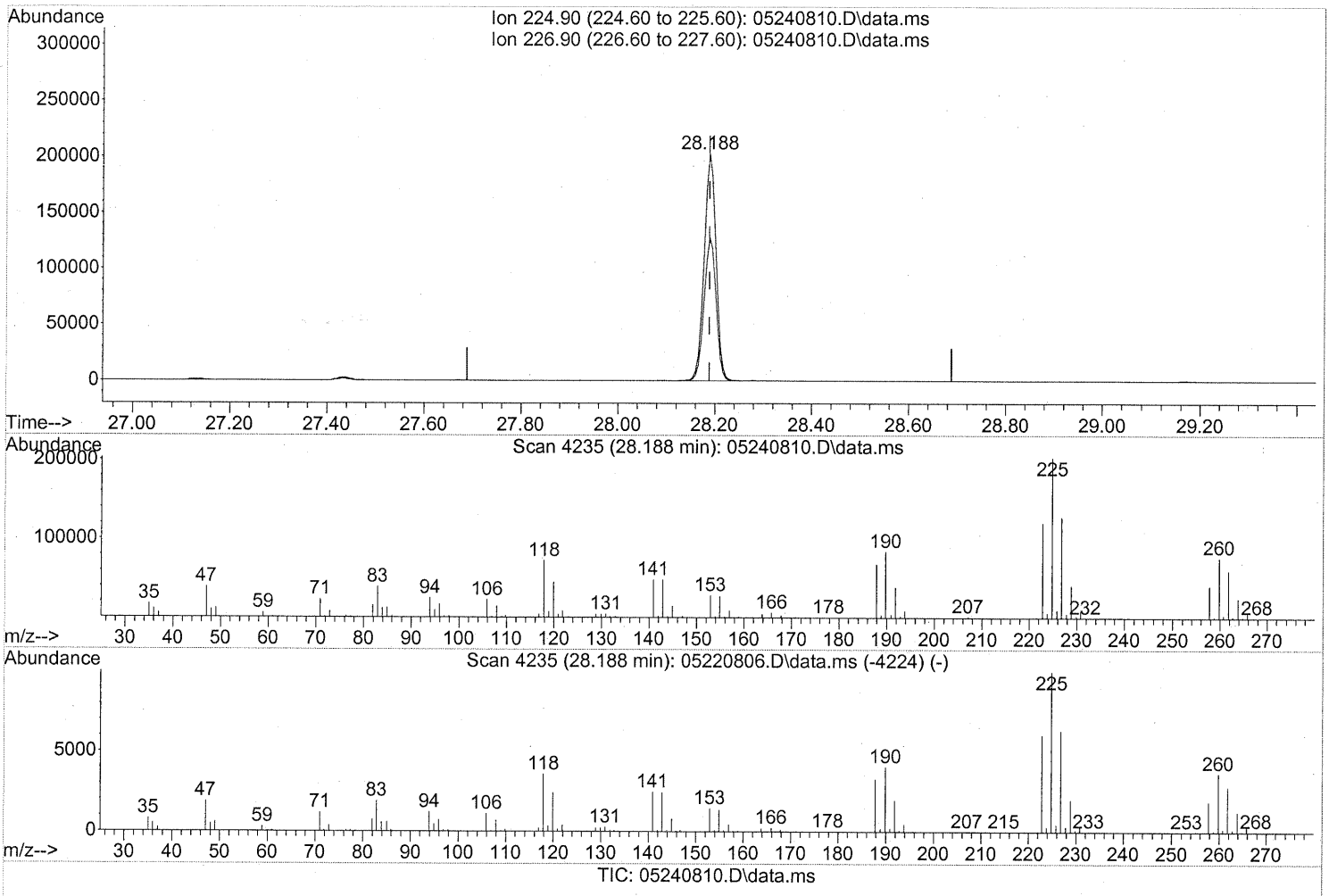
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	69.98
0.00	0.00	0.00
0.00	0.00	0.00

981

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 17:51:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240810.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

28.188min (+0.000) 11.52ng

response 345300

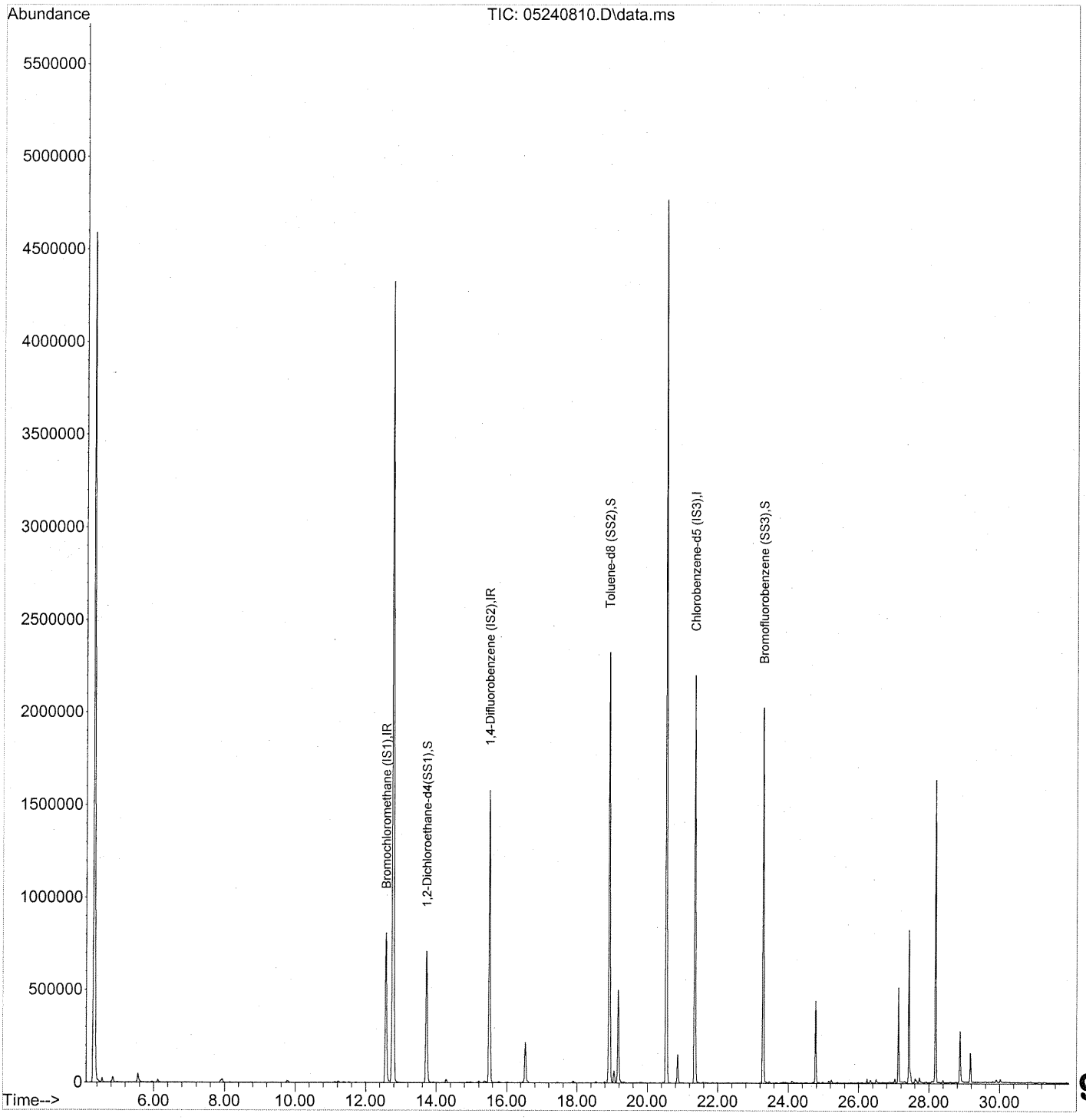
Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.56
0.00	0.00	0.00
0.00	0.00	0.00

982

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 25 20:36:31 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



983

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240810.D
Acq On : 24 May 2008 13:15
Operator : WA
Sample : P0801442-014 Dup (40ml)
Misc : ENSR SG35B-05 (-3.3, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 25 20:36:31 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	413362	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1798004	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	843834	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	725857	25.343	ng	-0.03
Spiked Amount 25.000			Recovery = 101.36%			
5) Toluene-d8 (SS2)	18.92	98	1914098	25.257	ng	-0.02
Spiked Amount 25.000			Recovery = 101.04%			
6) Bromofluorobenzene (SS3)	23.29	174	762405	24.739	ng	0.00
Spiked Amount 25.000			Recovery = 98.96%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	101	N.D.		
8) n-Butylbenzene	25.92	91	461	N.D.		

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

984

JDH 5/29/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
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: 05210801.D
Analyst: Wida Ang Date Analyzed: 5/21/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 07:03
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	280453	9.20	1159366	11.35	455765	16.45
	Upper Limit	392634	9.53	1623112	11.68	638071	16.78
	Lower Limit	168272	8.87	695620	11.02	273459	16.12
	Client Sample ID						
01	Method Blank	265459	9.19	1108808	11.34	433704	16.45
02	Lab Control Sample	271810	9.23	1132838	11.37	456218	16.45
03	SG70B-05 (Dilution)	278945	9.19	1159225	11.34	454144	16.45
04	SG71B-05 (Dilution)	261196	9.20	1111432	11.34	436653	16.45
05							
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: RC Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442

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: 05220801.D
Analyst: Wida Ang Date Analyzed: 5/22/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 06:45
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	290078	9.20	1224526	11.36	472512	16.45
	Upper Limit	406109	9.53	1714336	11.69	661517	16.78
	Lower Limit	174047	8.87	734716	11.03	283507	16.12
	Client Sample ID						
01	Method Blank	291099	9.19	1200703	11.34	463958	16.44
02	Lab Control Sample	292129	9.22	1211752	11.36	471175	16.45
03	SG36B-20 (Dilution)	294338	9.19	1253056	11.34	484420	16.45
04	SG89B-05 (Dilution)	295772	9.19	1263184	11.34	484027	16.44
05	SG72B-05 (Dilution)	291546	9.20	1227593	11.35	479960	16.45
06	SG84B-05 (Dilution)	250673	9.20	1092477	11.34	424798	16.45
07	SG95B-05 (Dilution)	261506	9.20	1145449	11.35	456223	16.45
08	SG75B-05 (Dilution)	275771	9.19	1188439	11.34	466565	16.45
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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

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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: RG Date: 6/2/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801442
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 5975Binert/6890N/MS13 Lab File ID: 05240801.D
Analyst: Rusty Bravo Date Analyzed: 5/24/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 06:59
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	448388	12.59	1911390	15.52	908326	21.35
	Upper Limit	627743	12.92	2675946	15.85	1271656	21.68
	Lower Limit	269033	12.26	1146834	15.19	544996	21.02
	Client Sample ID						
01	Method Blank	443208	12.58	1904075	15.51	885417	21.35
02	Lab Control Sample	459665	12.59	1955735	15.52	929197	21.35
03	SG70B-05	463631	12.58	1946379	15.51	904087	21.35
04	SG71B-05	444409	12.58	1882384	15.51	881998	21.35
05	SG36B-20	441193	12.58	1908057	15.51	909547	21.35
06	SG89B-05	432946	12.58	1838073	15.51	864159	21.35
07	SG35B-05	408720	12.58	1810368	15.51	852322	21.35
08	SG35B-05 (Lab Duplicate)	413362	12.58	1798004	15.51	843834	21.35
09	SG73B-05	405189	12.58	1793020	15.51	871340	21.35
10	SG39B-05	483630	12.58	2073700	15.51	990343	21.35
11	SG37B-20	502403	12.58	2138148	15.51	1047220	21.35
12	SG44B-05	528796	12.58	2294376	15.51	1068545	21.35
13	SG88B-05	542028	12.58	2318224	15.51	1105781	21.35
14	SG72B-05	585660	12.58	2449883	15.51	1168878	21.35
15	SG65B-05	604273	12.58	2567002	15.51	1175375	21.35
16	SG65B-05D	564336	12.58	2463090	15.51	1128628	21.35
17	SG84B-05	579106	12.58	2412558	15.51	1107058	21.35
18	SG85B-05	561245	12.58	2384740	15.51	1127495	21.35
19	SG94B-05	564641	12.58	2380094	15.51	1098161	21.35
20	SG95B-05	575733	12.58	2414649	15.51	1124167	21.35
21	SG75B-05	558421	12.58	2357400	15.51	1070709	21.35

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

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

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

Verified By: RC Date: 6/1/08

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS16\METHODS\
Method File : R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05120802.D 0.5 =05120803.D 1.0 =05120804.D 5.0 =05120805.D
25 =05120806.D 50 =05120807.D 100 =05120808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	ISTD								
2)	T	Propene	3.054	2.570	2.387	2.398	2.209	2.297	2.583	2.500	11.18
3)	T	Dichlorodifluoromet	3.443	3.217	3.064	2.926	2.811	2.661	2.569	2.956	10.48
4)	T	Chloromethane	4.882	4.306	3.991	3.445	3.604	3.290	2.063	3.654	24.36
5)	T	Freon 114	1.579	1.538	1.450	1.375	1.347	1.356	1.333	1.425	6.94
6)	T	Vinyl Chloride	2.913	2.583	2.647	2.558	2.438	2.315	2.208	2.523	9.17
7)	T	1,3-Butadiene	2.705	2.474	2.254	2.285	2.316	2.264	2.193	2.356	7.51
8)	T	Bromomethane	1.199	1.147	1.093	0.984	0.983	0.949	0.923	1.040	10.24
9)	T	Chloroethane	1.176	1.284	1.229	1.127	1.132	1.099	1.027	1.153	7.38
10)	T	Ethanol		1.765	1.928	1.797	1.626	1.597	1.600	1.719	7.78
11)	T	Acetonitrile		5.112	4.755	4.500	4.228	4.098	4.085	4.463	9.18
12)	T	Acrolein		1.420	1.318	1.175	1.187	1.130	1.114	1.224	9.81
13)	T	Acetone		2.212	1.992	1.616	1.461	1.340	1.290	1.652	22.59
14)	T	Trichlorofluorometh	2.509	2.562	2.531	2.432	2.403	2.344	2.330	2.445	3.75
15)	T	Isopropanol		6.318	6.158	5.346	5.873	4.906	3.533	5.356	19.33
16)	T	Acrylonitrile	2.990	3.079	3.036	2.874	2.917	2.851	2.817	2.938	3.38
17)	T	1,1-Dichloroethene	1.272	1.256	1.207	1.186	1.165	1.144	1.146	1.197	4.27
18)	T	tert-Butanol	5.530	5.034	4.924	4.719	4.739	4.579	4.570	4.871	6.92
19)	T	Methylene Chloride	1.853	1.353	1.266	1.211	1.170	1.145	1.137	1.305	19.42
20)	T	Allyl Chloride	3.299	2.942	2.687	2.466	2.547	2.551	2.650	2.735	10.69
21)	T	Trichlorotrifluoroe	0.999	1.098	1.027	1.015	1.016	1.006	1.030	1.027	3.22
22)	T	Carbon Disulfide		5.441	5.109	4.795	4.838	4.683	4.687	4.925	6.02
23)	T	trans-1,2-Dichloroe	2.751	2.669	2.640	2.564	2.496	2.409	2.383	2.559	5.36
24)	T	1,1-Dichloroethane	3.294	3.109	3.009	2.849	2.821	2.709	2.634	2.918	7.97
25)	T	Methyl tert-Butyl E	4.262	4.034	3.993	3.941	3.844	3.724	3.659	3.922	5.19
26)	T	Vinyl Acetate		0.327	0.326	0.350	0.343	0.331	0.333	0.335	2.86
27)	T	2-Butanone	0.785	0.883	0.914	0.874	0.851	0.831	0.818	0.851	5.09
28)	T	cis-1,2-Dichloroeth	2.553	2.466	2.409	2.359	2.305	2.229	2.192	2.359	5.45
29)	T	Diisopropyl Ether	1.055	1.130	1.099	1.109	1.094	1.064	1.032	1.083	3.15
30)	T	Ethyl Acetate		0.630	0.628	0.636	0.645	0.624	0.614	0.629	1.68
31)	T	n-Hexane	4.108	3.702	3.497	3.435	3.424	3.360	3.376	3.557	7.54

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5/13/08

Method Path : J:\MS16\METHODS\
Method File : R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05120802.D 0.5 =05120803.D 1.0 =05120804.D 5.0 =05120805.D
25 =05120806.D 50 =05120807.D 100 =05120808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
32)	T	Chloroform	1.891	2.078	1.924	1.874	1.827	1.753	1.703	1.864	6.56
33)	S	1,2-Dichloroethane-	1.795	1.810	1.832	1.822	1.748	1.692	1.642	1.763	4.11
34)	T	Tetrahydrofuran		0.894	0.872	0.852	0.857	0.838	0.805	0.853	3.57
35)	T	Ethyl tert-Butyl Et	1.411	1.592	1.548	1.606	1.555	1.536	1.507	1.536	4.20
36)	T	1,2-Dichloroethane	2.562	2.322	2.335	2.222	2.145	2.046	1.980	2.230	8.85
37)	IR	1,4-Difluorobenzene (	----------	----------	ISTD	----------	----------	----------	----------		
38)	T	1,1,1-Trichloroetha	0.519	0.531	0.481	0.473	0.468	0.452	0.441	0.481	6.90
39)	T	Isopropyl Acetate	0.200	0.280	0.255	0.257	0.270	0.266	0.260	0.256	10.19
40)	T	1-Butanol	0.419	0.466	0.460	0.472	0.501	0.497	0.500	0.474	6.28
41)	T	Benzene	1.571	1.283	1.216	1.150	1.140	1.115	1.105	1.226	13.42
42)	T	Carbon Tetrachlorid	0.235	0.338	0.351	0.375	0.423	0.413	0.405	0.363	17.84
43)	T	Cyclohexane	0.644	0.509	0.482	0.449	0.449	0.435	0.429	0.485	15.55
44)	T	tert-Amyl Methyl Et	0.867	0.906	0.854	0.856	0.876	0.847	0.835	0.863	2.67
45)	T	1,2-Dichloropropane	0.383	0.411	0.386	0.375	0.379	0.366	0.361	0.380	4.25
46)	T	Bromodichloromethan	0.365	0.374	0.362	0.370	0.376	0.358	0.346	0.364	2.84
47)	T	Trichloroethene	0.382	0.354	0.329	0.317	0.327	0.327	0.328	0.337	6.73
48)	T	1,4-Dioxane	0.228	0.236	0.227	0.234	0.235	0.228	0.226	0.230	1.82
49)	T	Isooctane	2.114	2.126	2.018	1.986	2.013	1.996	1.997	2.036	2.89
50)	T	Methyl Methacrylate		0.115	0.113	0.120	0.127	0.126	0.126	0.121	5.16
51)	T	n-Heptane	0.301	0.336	0.311	0.313	0.316	0.307	0.298	0.312	3.95
52)	T	cis-1,3-Dichloropro	0.521	0.489	0.469	0.488	0.502	0.483	0.470	0.489	3.69
53)	T	4-Methyl-2-pentanon	0.447	0.445	0.438	0.441	0.458	0.448	0.445	0.446	1.42
54)	T	trans-1,3-Dichlorop	0.391	0.435	0.438	0.439	0.454	0.436	0.428	0.432	4.55
55)	T	1,1,2-Trichloroetha	0.317	0.324	0.299	0.292	0.288	0.282	0.281	0.297	5.71
56)	I	Chlorobenzene-d5 (IS3	----------	----------	ISTD	----------	----------	----------	----------		
57)	S	Toluene-d8 (SS2)	2.489	2.486	2.454	2.463	2.447	2.445	2.447	2.462	0.75
58)	T	Toluene	3.597	3.092	2.922	2.824	2.865	2.884	2.926	3.016	8.95
59)	T	2-Hexanone	3.670	3.243	3.054	3.111	3.131	3.071	3.043	3.189	6.98
60)	T	Dibromochloromethan	0.775	0.774	0.746	0.771	0.807	0.810	0.826	0.787	3.56
61)	T	1,2-Dibromoethane	0.773	0.779	0.780	0.767	0.781	0.781	0.786	0.778	0.79

066

5/13/08

Method Path : J:\MS16\METHODS\
Method File : R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05120802.D 0.5 =05120803.D 1.0 =05120804.D 5.0 =05120805.D
25 =05120806.D 50 =05120807.D 100 =05120808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
62)	T	Butyl Acetate	3.376	3.199	3.112	3.194	3.335	3.284	3.277	3.254	2.80
63)	T	n-Octane	0.965	0.969	0.952	0.934	0.980	0.977	0.981	0.965	1.76
64)	T	Tetrachloroethene	0.869	0.735	0.722	0.698	0.708	0.727	0.758	0.745	7.77
65)	T	Chlorobenzene	2.196	2.032	1.961	1.896	1.933	1.952	2.001	1.996	4.95
66)	T	Ethylbenzene	3.809	3.482	3.291	3.268	3.378	3.392	3.461	3.440	5.26
67)	T	m- & p-Xylene	2.382	2.300	2.186	2.156	2.223	2.239	2.292	2.254	3.40
68)	T	Bromoform	0.357	0.392	0.410	0.416	0.457	0.466	0.482	0.426	10.55
69)	T	Styrene	2.187	1.983	1.941	2.014	2.124	2.153	2.222	2.089	5.22
70)	T	o-Xylene	2.493	2.458	2.360	2.336	2.381	2.375	2.422	2.404	2.34
71)	T	n-Nonane	2.651	2.708	2.583	2.599	2.715	2.684	2.644	2.655	1.93
72)	T	1,1,2,2-Tetrachloro	1.018	1.091	1.059	1.048	1.074	1.059	1.063	1.059	2.15
73)	S	Bromofluorobenzene	0.629	0.630	0.620	0.635	0.647	0.655	0.668	0.641	2.65
74)	T	Cumene	3.271	3.459	3.241	3.206	3.397	3.410	3.521	3.358	3.55
75)	T	alpha-Pinene	1.478	1.651	1.578	1.609	1.707	1.713	1.748	1.641	5.71
76)	T	n-Propylbenzene	4.415	4.246	4.042	4.016	4.221	4.225	4.311	4.211	3.35
77)	T	3-Ethyltoluene	3.638	3.597	3.470	3.422	3.672	3.767	3.892	3.637	4.47
78)	T	4-Ethyltoluene	3.311	3.344	3.178	3.206	3.354	3.323	3.466	3.312	2.91
79)	T	1,3,5-Trimethylbenz	3.040	2.883	2.831	2.775	2.910	2.925	3.046	2.916	3.45
80)	T	alpha-Methylstyrene	1.360	1.476	1.421	1.574	1.715	1.729	1.798	1.582	10.71
81)	T	2-Ethyltoluene	3.625	3.620	3.421	3.438	3.655	3.688	3.811	3.608	3.83
82)	T	1,2,4-Trimethylbenz	3.161	2.902	2.862	2.841	3.079	3.107	3.137	3.013	4.60
83)	T	n-Decane	2.220	2.415	2.262	2.346	2.482	2.475	2.517	2.388	4.82
84)	T	Benzyl Chloride	2.371	2.407	2.383	2.460	2.633	2.625	2.696	2.511	5.44
85)	T	1,3-Dichlorobenzene	1.906	1.764	1.650	1.631	1.714	1.757	1.819	1.748	5.46
86)	T	1,4-Dichlorobenzene	1.660	1.673	1.631	1.573	1.676	1.700	1.779	1.670	3.78
87)	T	sec-Butylbenzene	3.922	3.870	3.672	3.742	4.023	4.051	4.195	3.925	4.64
88)	T	p-Isopropyltoluene	3.112	3.184	3.120	3.170	3.557	3.593	3.598	3.333	7.04
89)	T	1,2,3-Trimethylbenz	2.779	2.914	2.754	2.803	3.071	3.090	3.127	2.934	5.47
90)	T	1,2-Dichlorobenzene	1.599	1.622	1.574	1.544	1.664	1.666	1.682	1.622	3.21
91)	T	d-Limonene	0.952	1.041	1.004	1.083	1.204	1.175	1.149	1.087	8.61
92)	T	1,2-Dibromo-3-Chlor	0.398	0.481	0.493	0.506	0.558	0.563	0.580	0.511	12.32
93)	T	n-Undecane	2.217	2.390	2.354	2.474	2.704	2.714	2.727	2.511	8.16

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Method Path : J:\MS16\METHODS\
Method File : R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05120802.D 0.5 =05120803.D 1.0 =05120804.D 5.0 =05120805.D
25 =05120806.D 50 =05120807.D 100 =05120808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
94)	T	1,2,4-Trichlorobenz	0.280	0.252	0.250	0.277	0.298	0.301	0.316	0.282	8.81
95)	T	Naphthalene	3.960	4.136	3.935	4.047	4.490	4.533	4.741	4.263	7.51
96)	T	n-Dodecane	1.938	2.372	2.335	2.396	2.684	2.705	2.723	2.451	11.54
97)	T	Hexachloro-1,3-buta	0.365	0.440	0.399	0.407	0.432	0.441	0.468	0.422	7.99

(#) = Out of Range

5/13/08

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-05020810
20ng/L Std. ID: S20-05020808
200ng/L Std. ID: S20-05020804

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	0.050	0.25	0.125	0.25	0.50
Compounds	mg/m³	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

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Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-05020810
20ng/L Std. ID: S20-05020808
200ng/L Std. ID: S20-05020804

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	0.05	0.25	0.125	0.25	0.50
Compounds	mg/m³	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.

Calibration Status Report GCMS-16

Method Path : J:\MS16\METHODS\
Method File : R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS16\DATA\2008_05\12a\05120802.D
2	0.5	1	25	J:\MS16\DATA\2008_05\12a\05120803.D
3	1.0	1	25	J:\MS16\DATA\2008_05\12a\05120804.D
4	5.0	5	25	J:\MS16\DATA\2008_05\12a\05120805.D
5	25	27	25	J:\MS16\DATA\2008_05\12a\05120806.D
6	50	54	25	J:\MS16\DATA\2008_05\12a\05120807.D
7	100	108	25	J:\MS16\DATA\2008_05\12a\05120808.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 12 19:56 2008	May 12 19:38 2008	12 May 2008 16:21
2	0.5	May 12 19:57 2008	May 12 19:45 2008	12 May 2008 16:59
3	1.0	May 12 19:57 2008	May 12 19:50 2008	12 May 2008 17:37
4	5.0	May 12 19:58 2008	May 12 19:52 2008	12 May 2008 18:17
5	25	May 12 19:59 2008	May 12 19:54 2008	12 May 2008 18:55
6	50	May 12 20:47 2008	May 12 20:44 2008	12 May 2008 19:34
7	100	May 12 20:47 2008	May 12 20:46 2008	12 May 2008 20:12

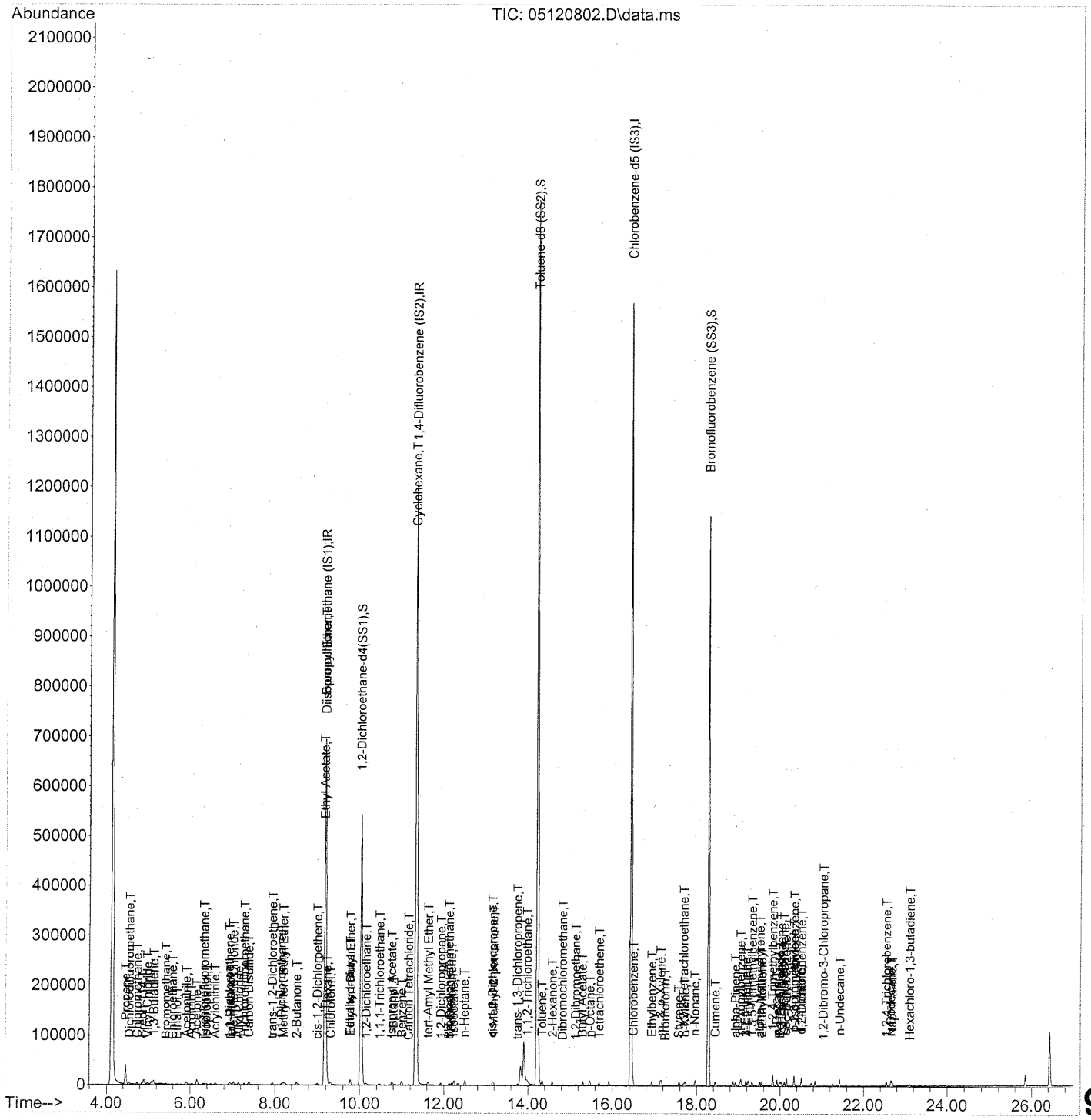
R16051208.M Tue May 13 07:21:23 2008

5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:38:08 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:38:08 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	285336	25.000	ng		-0.07
37) 1,4-Difluorobenzene (IS2)	11.34	114	1239850	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	531351	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.03	65	512141	30.463	ng		-0.06
Spiked Amount 25.000			Recovery =	121.84%			
57) Toluene-d8 (SS2)	14.22	98	1322290	25.432	ng		-0.02
Spiked Amount 25.000			Recovery =	101.72%			
73) Bromofluorobenzene (SS3)	18.28	174	334014	17.231	ng		-0.01
Spiked Amount 25.000			Recovery =	68.92%			
Target Compounds							Qvalue
2) Propene	4.46	42	3765	0.137	ng		94
3) Dichlorodifluoromethane	4.55	85	4087	0.122	ng	#	93
4) Chloromethane	4.74	50	5683	0.137	ng		88
5) Freon 114	4.87	135	1928	0.103	ng		89
6) Vinyl Chloride	4.99	62	3424	0.127	ng		88
7) 1,3-Butadiene	5.13	54	3365	0.144	ng		94
8) Bromomethane	5.42	94	1437	0.121	ng		95
9) Chloroethane	5.58	64	1409	0.109	ng	#	58
10) Ethanol	5.69	45	1630	0.085	ng	#	50
11) Acetonitrile	5.92	41	8332	0.152	ng		75
12) Acrolein	6.03	56	2106	0.143	ng		99
13) Acetone	6.16	58	5370	0.281	ng	#	76
14) Trichlorofluoromethane	6.33	101	2978	0.102	ng		98
15) Isopropanol	6.38	45	8630m	0.136	ng		
16) Acrylonitrile	6.59	53	3447	0.100	ng		92
17) 1,1-Dichloroethene	6.93	96	1640	0.111	ng	#	79
18) tert-Butanol	6.96	59	6438m	0.119	ng		
19) Methylene Chloride	7.02	84	2369	0.148	ng	#	22
20) Allyl Chloride	7.15	41	3954	0.136	ng	#	60
21) Trichlorotrifluoroethane	7.28	151	1300	0.088	ng		85
22) Carbon Disulfide	7.39	76	8469	0.138	ng		94
23) trans-1,2-Dichloroethene	7.94	61	3454	0.120	ng		81
24) 1,1-Dichloroethane	8.15	63	4173	0.128	ng		86
25) Methyl tert-Butyl Ether	8.20	73	5400	0.125	ng		85
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.52	72	1004	0.103	ng	#	1
28) cis-1,2-Dichloroethene	9.00	61	3234	0.123	ng		83
29) Diisopropyl Ether	9.19	87	1240	0.098	ng	#	1
30) Ethyl Acetate	9.17	61	594	0.089	ng		96
31) n-Hexane	9.23	57	5251	0.132	ng		69

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:38:08 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	2784	0.129	ng		95
34) Tetrahydrofuran	9.77	72	554	0.060	ng	#	1
35) Ethyl tert-Butyl Ether	9.78	87	1691	0.094	ng	#	39
36) 1,2-Dichloroethane	10.16	62	3217	0.134	ng		68
38) 1,1,1-Trichloroethane	10.47	97	2832	0.115	ng		89
39) Isopropyl Acetate	10.77	61	1001	0.082	ng	#	1
40) 1-Butanol	10.80	56	1890m	0.083	ng		
41) Benzene	11.01	78	8568	0.140	ng		95
42) Carbon Tetrachloride	11.16	117	1247	0.060	ng		94
43) Cyclohexane	11.33	84	3547	0.142	ng	#	1
44) tert-Amyl Methyl Ether	11.63	73	4473	0.105	ng	#	68
45) 1,2-Dichloropropane	11.93	63	2069	0.112	ng		85
46) Bromodichloromethane	12.13	83	2079	0.116	ng		95
47) Trichloroethene	12.19	130	2161	0.107	ng		81
48) 1,4-Dioxane	12.15	88	1298	0.110	ng		89
49) Isooctane	12.24	57	10903	0.108	ng		99
50) Methyl Methacrylate	12.35	100	310	N.D.			
51) n-Heptane	12.49	71	1659	0.109	ng	#	46
52) cis-1,3-Dichloropropene	13.16	75	2686	0.114	ng		82
53) 4-Methyl-2-pentanone	13.19	58	2330	0.109	ng	#	49
54) trans-1,3-Dichloropropene	13.76	75	2249	0.111	ng		89
55) 1,1,2-Trichloroethane	13.99	97	1711	0.109	ng		95
58) Toluene	14.34	91	8410	0.123	ng		99
59) 2-Hexanone	14.59	43	7957	0.128	ng		94
60) Dibromochloromethane	14.83	129	1828	0.095	ng		96
61) 1,2-Dibromoethane	15.14	107	1790	0.097	ng		90
62) Butyl Acetate	15.30	43	7534	0.118	ng		97
63) n-Octane	15.48	57	2132	0.104	ng	#	66
64) Tetrachloroethene	15.69	166	2014	0.102	ng		81
65) Chlorobenzene	16.50	112	5135	0.105	ng		91
66) Ethylbenzene	16.94	91	8743	0.113	ng		100
67) m- & p-Xylene	17.15	91	13063	0.260	ng		98
68) Bromoform	17.25	173	993	0.089	ng		77
69) Styrene	17.58	104	5019	0.103	ng		94
70) o-Xylene	17.73	91	6464	0.119	ng		99
71) n-Nonane	17.96	43	5803	0.109	ng		91
72) 1,1,2,2-Tetrachloroethane	17.69	83	2660	0.120	ng		79
74) Cumene	18.45	105	7509	0.095	ng		94
75) alpha-Pinene	18.93	93	3330	0.088	ng		91
76) n-Propylbenzene	19.06	91	9853	0.105	ng	#	75
77) 3-Ethyltoluene	19.18	105	7886	0.092	ng		96
78) 4-Ethyltoluene	19.24	105	7812	0.097	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	6978	0.101	ng		96

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:38:08 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

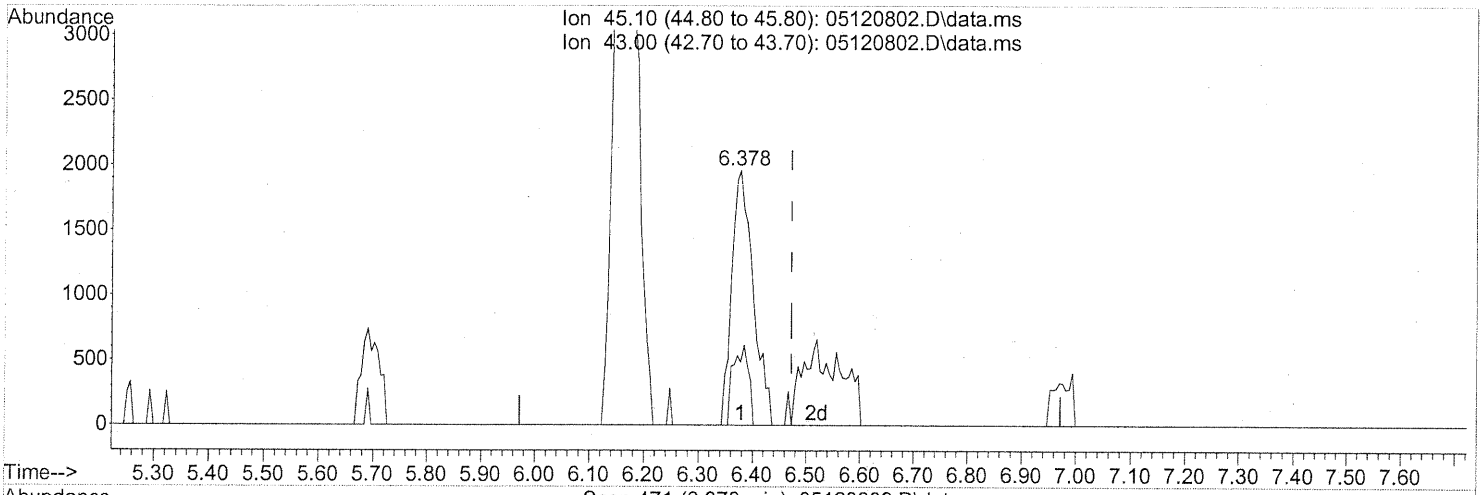
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	2949	0.075	ng		92
81) 2-Ethyltoluene	19.56	105	7628	0.089	ng		99
82) 1,2,4-Trimethylbenzene	19.82	105	7390	0.106	ng		94
83) n-Decane	19.92	57	4907	0.096	ng		80
84) Benzyl Chloride	20.00	91	5392	0.099	ng		98
85) 1,3-Dichlorobenzene	20.02	146	4293	0.095	ng		97
86) 1,4-Dichlorobenzene	20.10	146	3881	0.090	ng		91
87) sec-Butylbenzene	20.15	105	8920	0.096	ng		96
88) p-Isopropyltoluene	20.34	119	7805	0.097	ng		95
89) 1,2,3-Trimethylbenzene	20.34	105	6497	0.095	ng		88
90) 1,2-Dichlorobenzene	20.52	146	3671	0.089	ng		99
91) d-Limonene	20.51	68	2145	0.096	ng		94
92) 1,2-Dibromo-3-Chloropr...	21.04	157	879	0.067	ng	#	60
93) n-Undecane	21.44	57	4948	0.092	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	667	0.088	ng	#	76
95) Naphthalene	22.69	128	8838	0.083	ng		98
96) n-Dodecane	22.66	57	4366	0.087	ng		80
97) Hexachloro-1,3-butadiene	23.11	225	862	0.071	ng		85

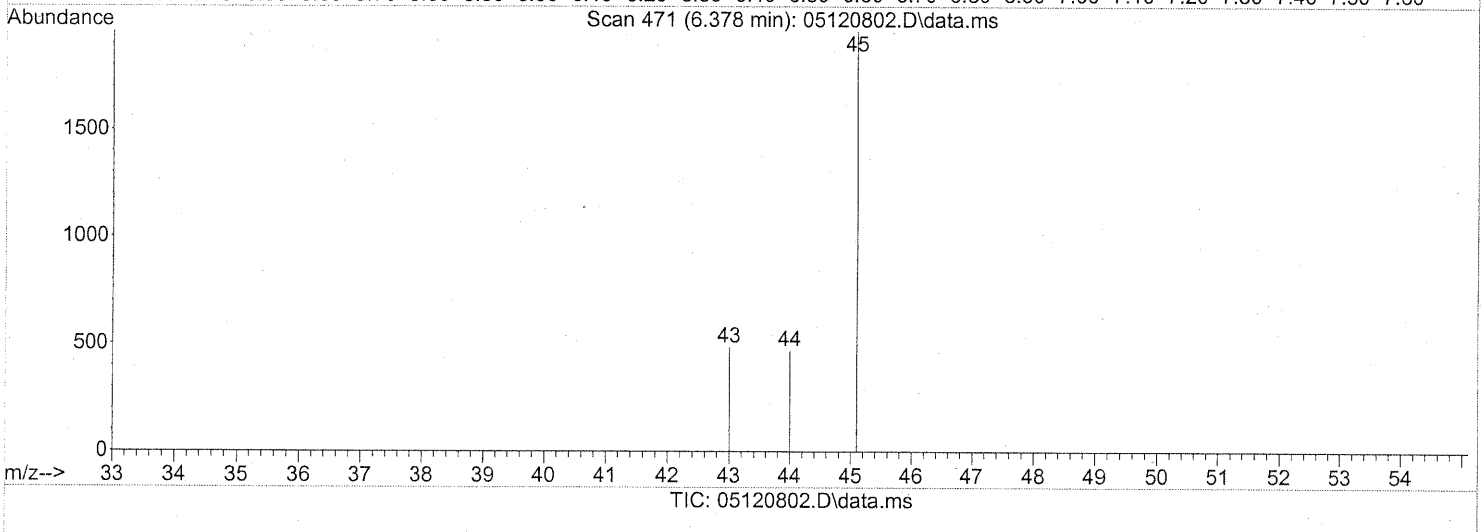
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120802.D\data.ms

(15) Isopropanol (T)

6.378min (-0.095) 0.08ng

response 5375

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	22.08
0.00	0.00	0.00
0.00	0.00	0.00

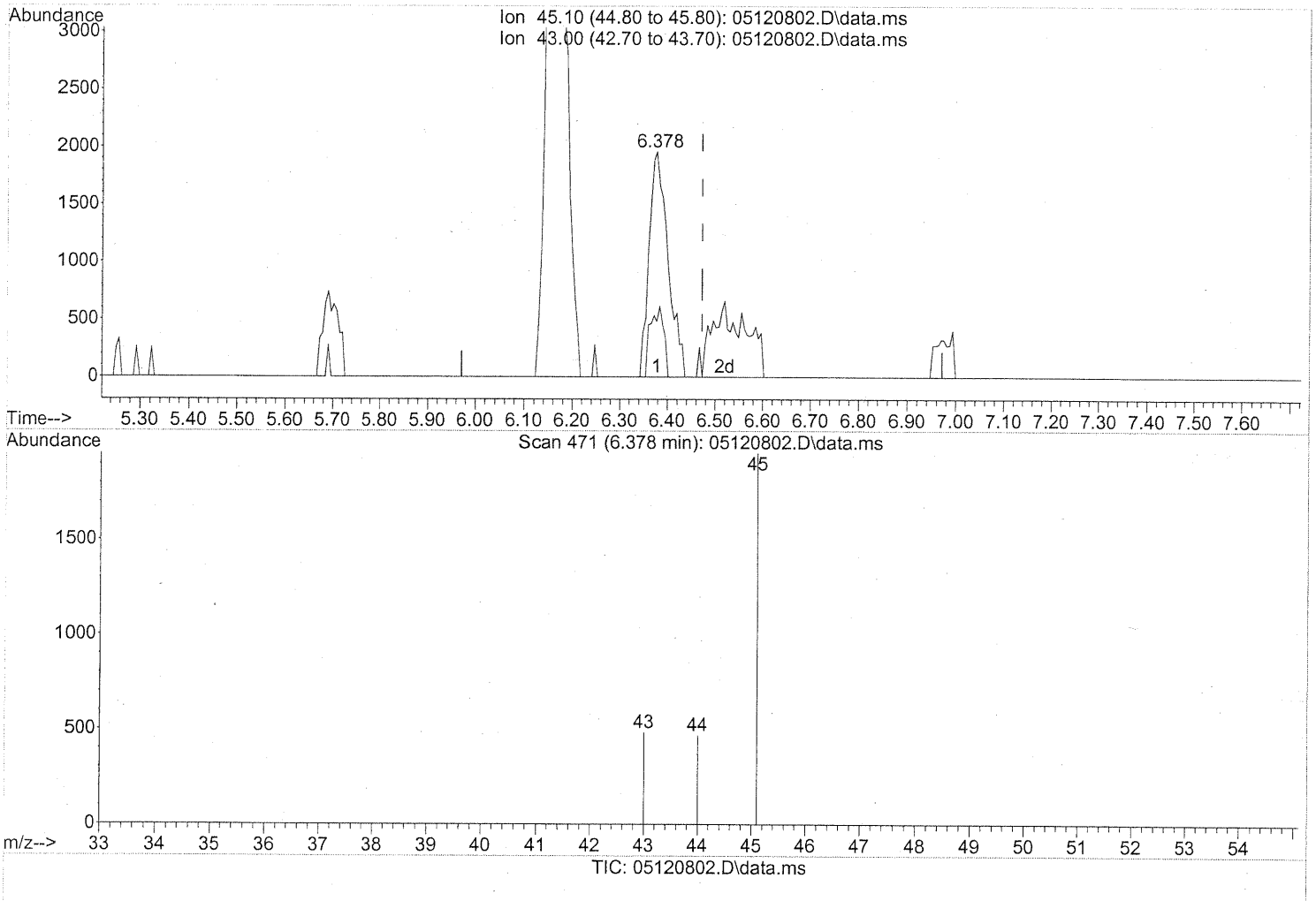
split peaks

1000

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120802.D\data.ms

(15) Isopropanol (T)

6.378min (-0.095) 0.14ng m

response 8630

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	13.75
0.00	0.00	0.00
0.00	0.00	0.00

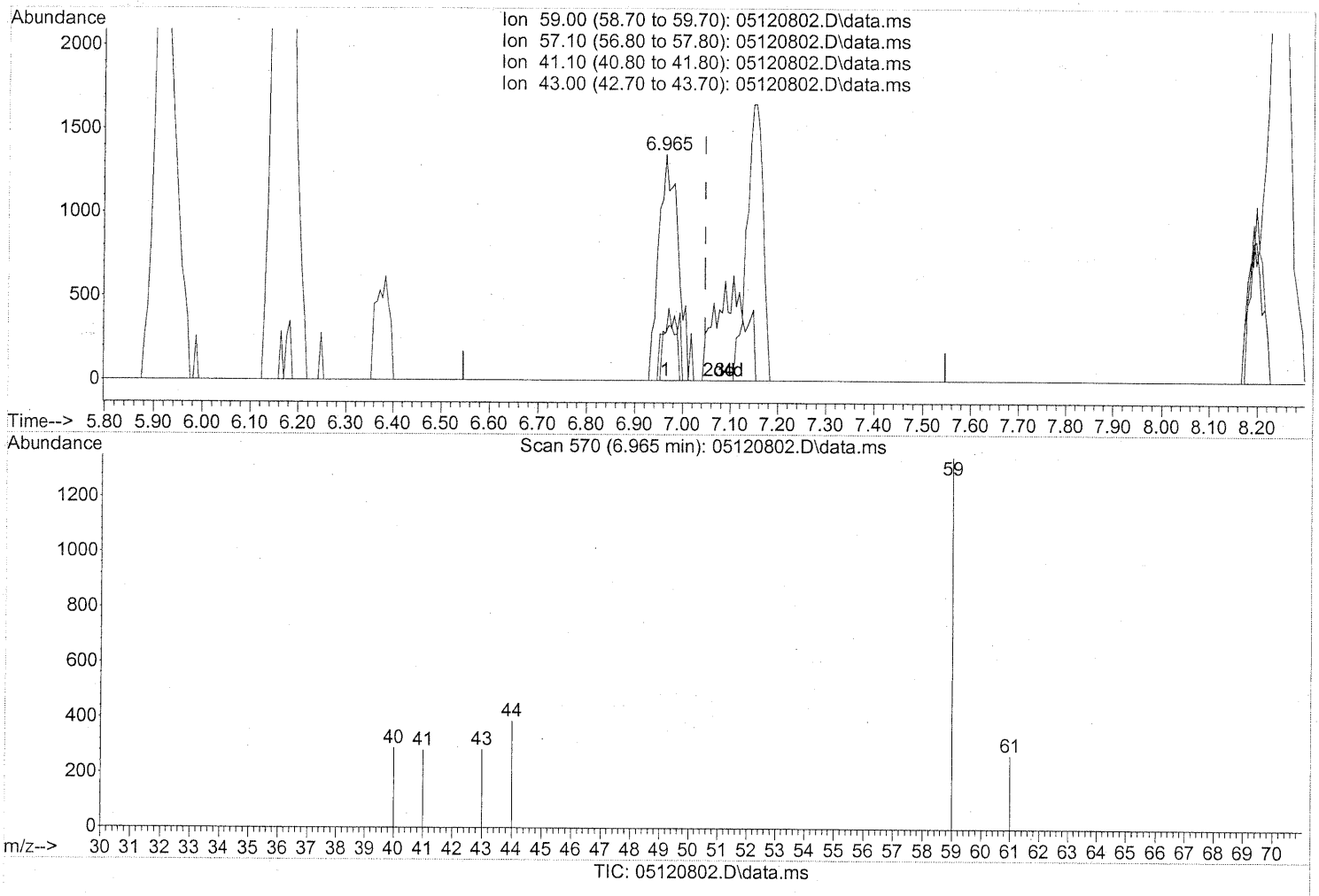
int. whole peaks
DH 5/13/08
Tam 5/13/08

1001

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.965min (-0.083) 0.07ng

response 3849

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	18.45
43.00	17.20	0.00

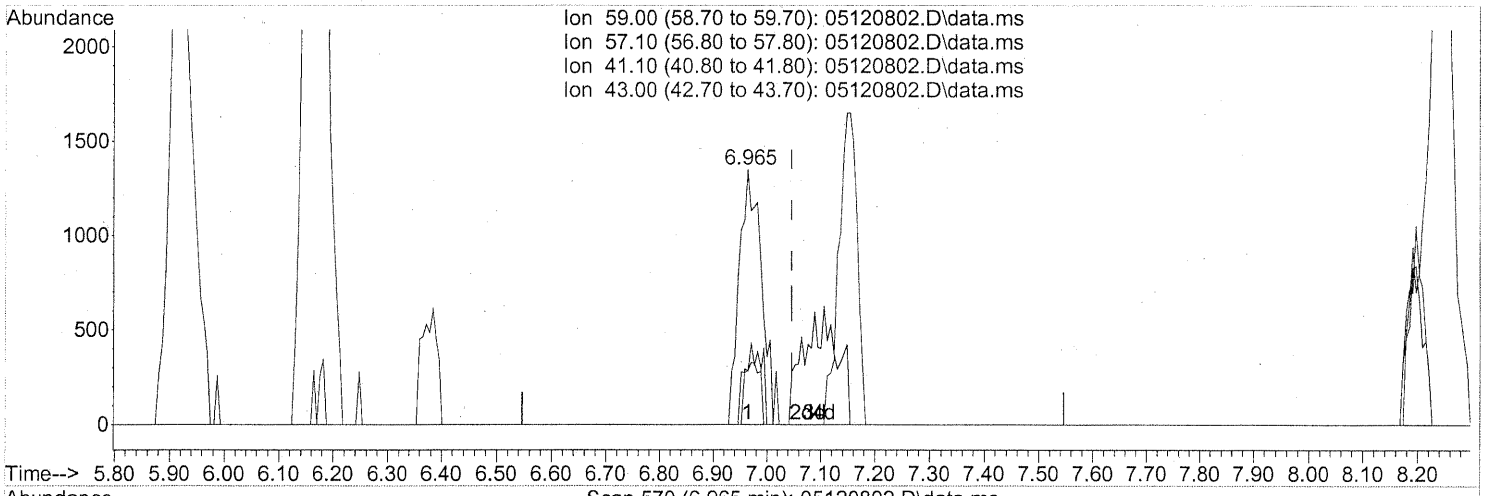
split peaks

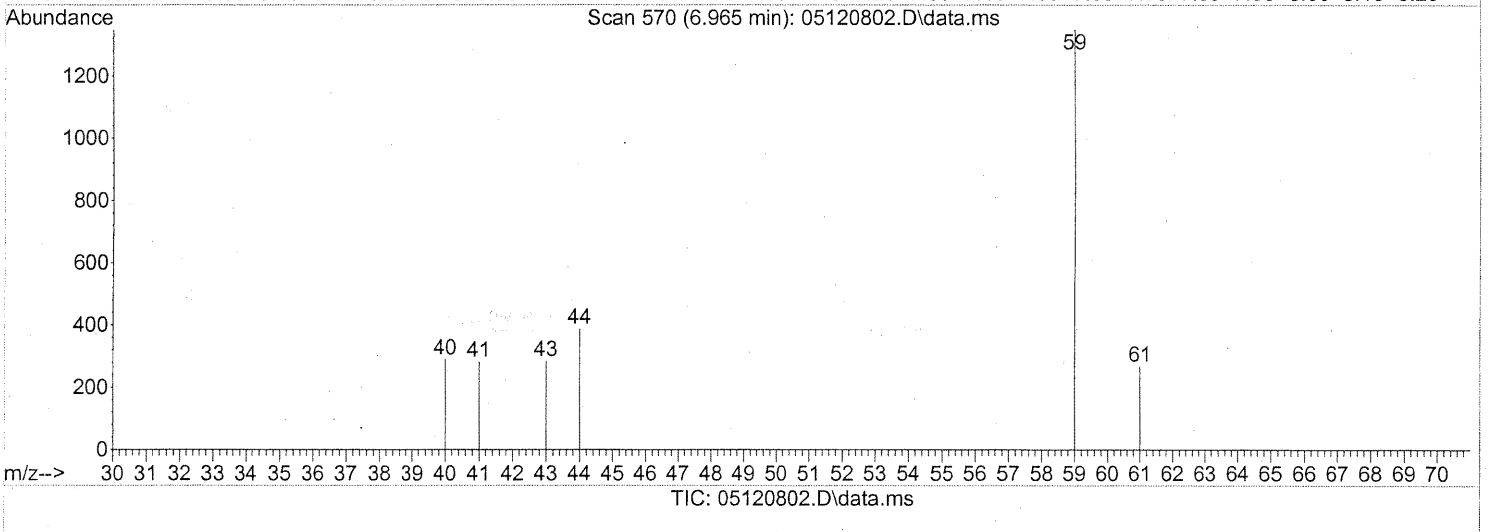
1002

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120802.D\data.ms

(18) tert-Butanol (T)

6.965min (-0.083) 0.12ng m

response 6438

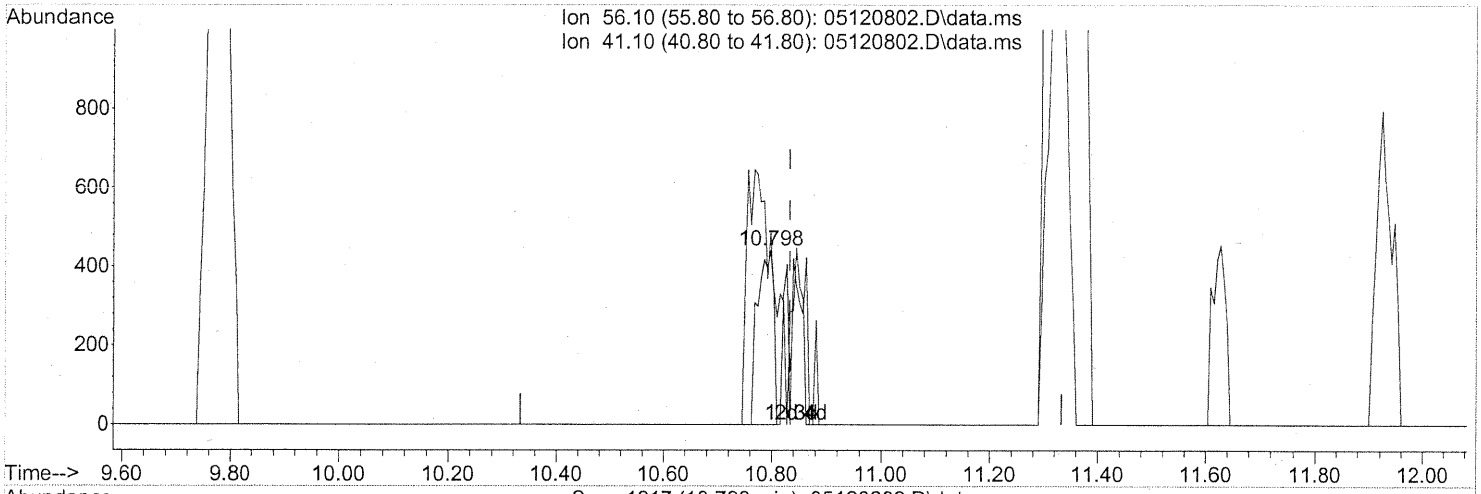
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	11.03
43.00	17.20	0.00

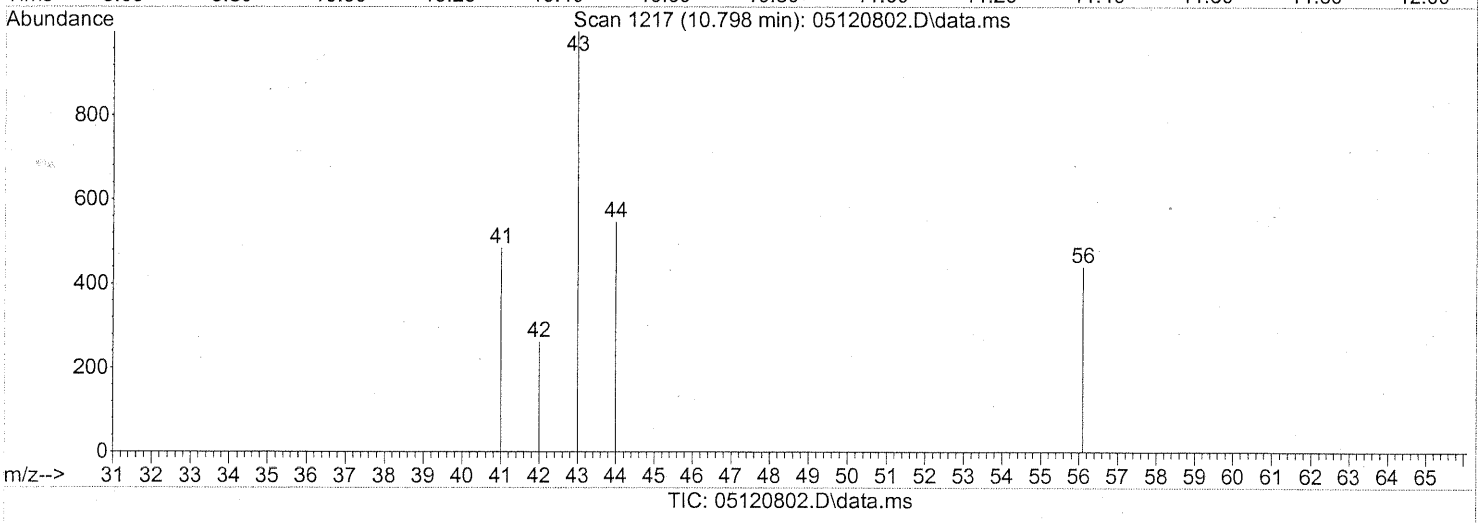
Int. whole peaks
DA 5/13/08
Sm 5/13/08

1003

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120802.D\data.ms

(40) 1-Butanol (T)

10.798min (-0.035) 0.04ng

response 907

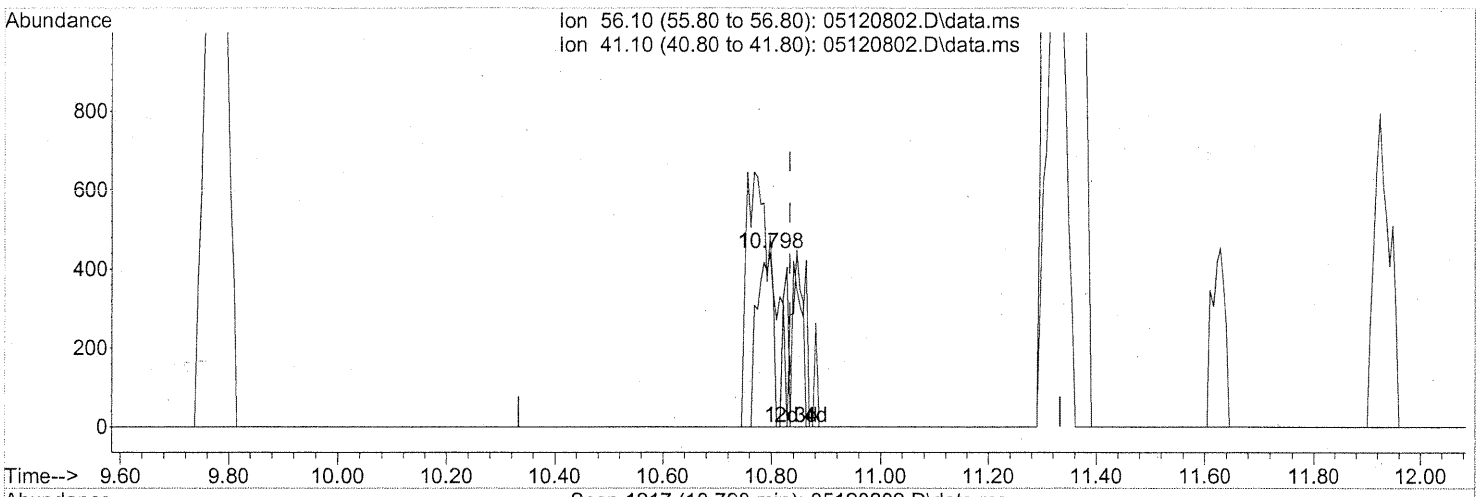
Ion	Exp%	Act%
56.10	100	100
41.10	111.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

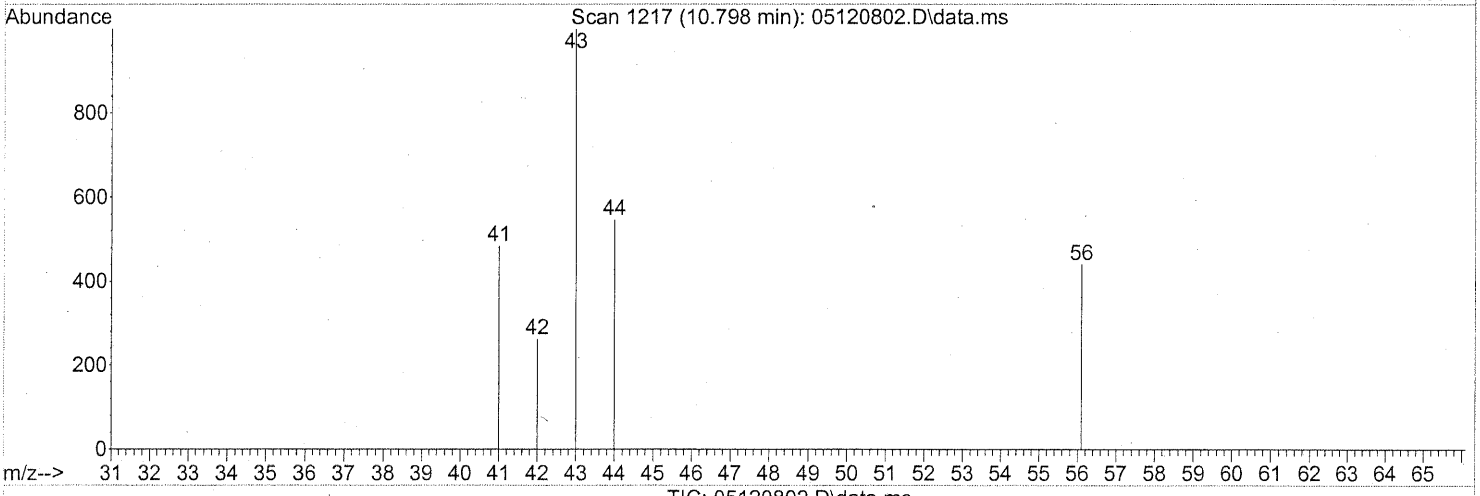
split peaks

1004

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120802.D
Acq On : 12 May 2008 16:21
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020810
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 12 19:30:27 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120802.D\data.ms

(40) 1-Butanol (T)

10.798min (-0.035) 0.08ng m

response 1890

Ion	Exp%	Act%
56.10	100	100
41.10	111.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

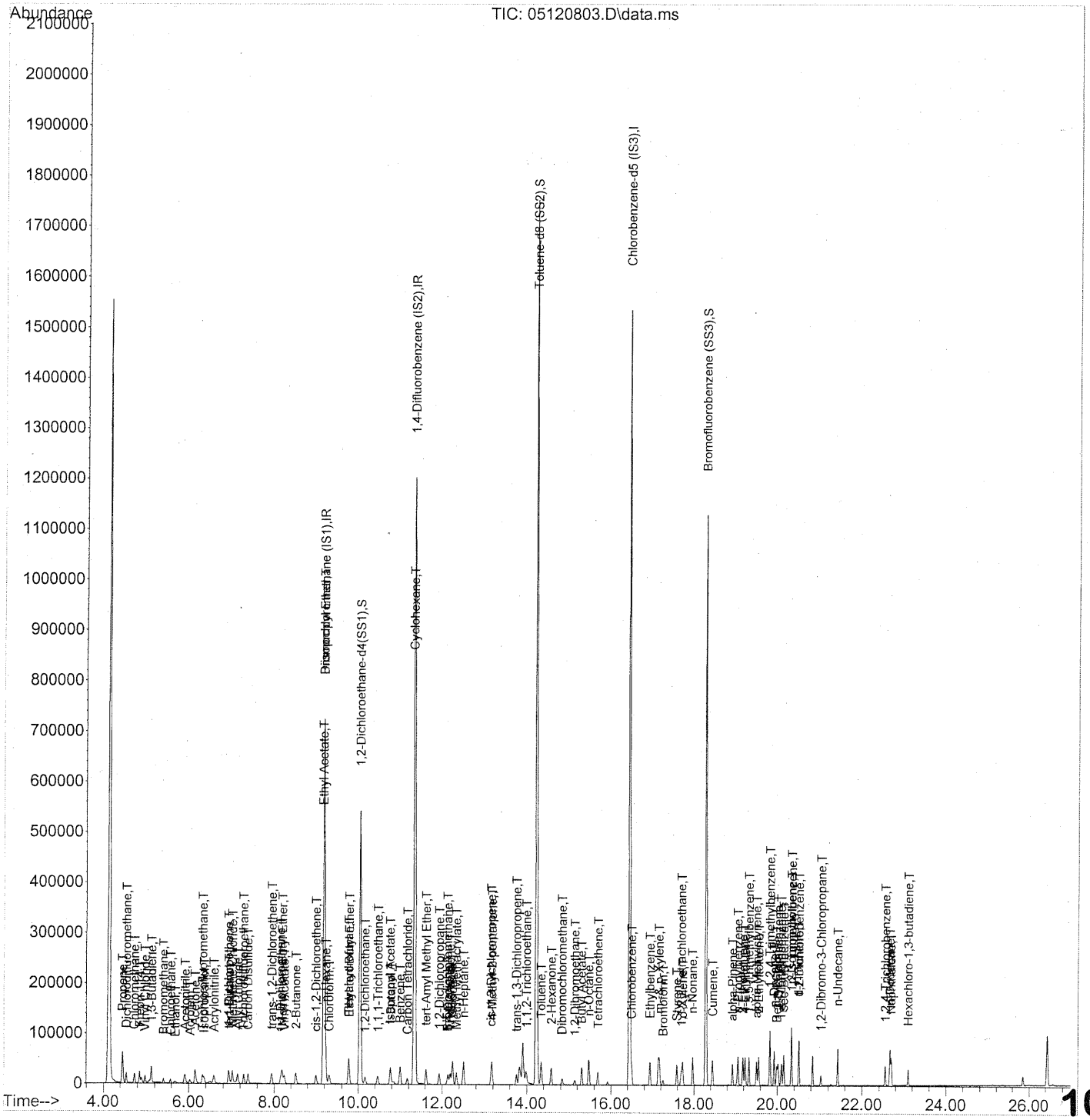
MA 5/13/08

Em 5/13/08

1005

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	278931	25.000	ng		-0.07
37) 1,4-Difluorobenzene (IS2)	11.34	114	1198154	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	520799	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	504988	30.727	ng		-0.05
Spiked Amount 25.000			Recovery = 122.92%				
57) Toluene-d8 (SS2)	14.22	98	1294564	25.403	ng		-0.02
Spiked Amount 25.000			Recovery = 101.60%				
73) Bromofluorobenzene (SS3)	18.28	174	328222	17.275	ng		-0.01
Spiked Amount 25.000			Recovery = 69.12%				
Target Compounds							Qvalue
2) Propene	4.45	42	15487	0.577	ng		95
3) Dichlorodifluoromethane	4.54	85	18665	0.571	ng		97
4) Chloromethane	4.73	50	24502	0.605	ng		95
5) Freon 114	4.85	135	9179	0.501	ng		91
6) Vinyl Chloride	4.97	62	14844	0.565	ng		100
7) 1,3-Butadiene	5.12	54	15044	0.656	ng		96
8) Bromomethane	5.41	94	6721	0.578	ng		94
9) Chloroethane	5.58	64	7523	0.598	ng		88
10) Ethanol	5.68	45	8961m	0.477	ng		
11) Acetonitrile	5.92	41	27949	0.522	ng		95
12) Acrolein	6.03	56	7605	0.529	ng		94
13) Acetone	6.15	58	13699	0.734	ng		88
14) Trichlorofluoromethane	6.32	101	14865	0.523	ng		95
15) Isopropanol	6.36	45	36301m	0.586	ng		
16) Acrylonitrile	6.59	53	17349	0.513	ng		94
17) 1,1-Dichloroethene	6.93	96	7920	0.550	ng	#	80
18) tert-Butanol	6.95	59	28643m	0.541	ng		
19) Methylene Chloride	7.02	84	8452	0.541	ng	#	28
20) Allyl Chloride	7.15	41	17233	0.608	ng		78
21) Trichlorotrifluoroethane	7.28	151	6985	0.483	ng		90
22) Carbon Disulfide	7.39	76	30354	0.507	ng		99
23) trans-1,2-Dichloroethene	7.94	61	16381	0.584	ng		90
24) 1,1-Dichloroethane	8.15	63	19250	0.606	ng		94
25) Methyl tert-Butyl Ether	8.19	73	24982	0.590	ng		81
26) Vinyl Acetate	8.24	86	1790	0.745	ng	#	1
27) 2-Butanone	8.52	72	5519	0.578	ng	#	1
28) cis-1,2-Dichloroethene	9.00	61	15273	0.593	ng		87
29) Diisopropyl Ether	9.19	87	6492	0.522	ng	#	1
30) Ethyl Acetate	9.17	61	4463	0.684	ng		77
31) n-Hexane	9.23	57	23131	0.593	ng		9

IDA 5/13/08

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	14954	0.709	ng		98
34) Tetrahydrofuran	9.77	72	5537	0.617	ng	#	44
35) Ethyl tert-Butyl Ether	9.78	87	9323	0.530	ng	#	64
36) 1,2-Dichloroethane	10.16	62	14247	0.609	ng		96
38) 1,1,1-Trichloroethane	10.47	97	13985	0.587	ng		91
39) Isopropyl Acetate	10.76	61	6788	0.574	ng	#	63
40) 1-Butanol	10.77	56	10168	0.460	ng	#	74
41) Benzene	11.00	78	33821	0.571	ng		100
42) Carbon Tetrachloride	11.17	117	8674	0.433	ng		100
43) Cyclohexane	11.33	84	13552	0.562	ng	#	1
44) tert-Amyl Methyl Ether	11.62	73	22576	0.549	ng	#	74
45) 1,2-Dichloropropane	11.93	63	10734	0.600	ng		99
46) Bromodichloromethane	12.13	83	10305	0.593	ng		89
47) Trichloroethene	12.19	130	9661	0.497	ng		95
48) 1,4-Dioxane	12.14	88	6494	0.570	ng	#	68
49) Isooctane	12.24	57	52990	0.545	ng		100
50) Methyl Methacrylate	12.33	100	2920	0.445	ng		95
51) n-Heptane	12.51	71	8935	0.606	ng	#	60
52) cis-1,3-Dichloropropene	13.16	75	12178	0.535	ng		99
53) 4-Methyl-2-pentanone	13.18	58	11201	0.544	ng		75
54) trans-1,3-Dichloropropene	13.76	75	12096	0.617	ng		100
55) 1,1,2-Trichloroethane	13.99	97	8465	0.557	ng		92
58) Toluene	14.34	91	35430	0.530	ng		98
59) 2-Hexanone	14.58	43	34452	0.567	ng		92
60) Dibromochloromethane	14.83	129	8952	0.475	ng		98
61) 1,2-Dibromoethane	15.14	107	8849	0.487	ng		98
62) Butyl Acetate	15.31	43	34988	0.560	ng		97
63) n-Octane	15.47	57	10494	0.521	ng		89
64) Tetrachloroethene	15.69	166	8348	0.431	ng		94
65) Chlorobenzene	16.49	112	23282	0.485	ng		97
66) Ethylbenzene	16.94	91	39170	0.518	ng		99
67) m- & p-Xylene	17.16	91	61802	1.254	ng		97
68) Bromoform	17.25	173	5347	0.487	ng		97
69) Styrene	17.58	104	22312	0.469	ng		98
70) o-Xylene	17.73	91	31234	0.589	ng		98
71) n-Nonane	17.96	43	29053	0.559	ng		89
72) 1,1,2,2-Tetrachloroethane	17.70	83	13980	0.643	ng		92
74) Cumene	18.45	105	38914	0.502	ng		98
75) alpha-Pinene	18.93	93	18234	0.490	ng		98
76) n-Propylbenzene	19.06	91	46442	0.505	ng		91
77) 3-Ethyltoluene	19.18	105	38216	0.456	ng		97
78) 4-Ethyltoluene	19.24	105	38663	0.492	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	32433	0.477	ng		91

1008

5/13/08

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

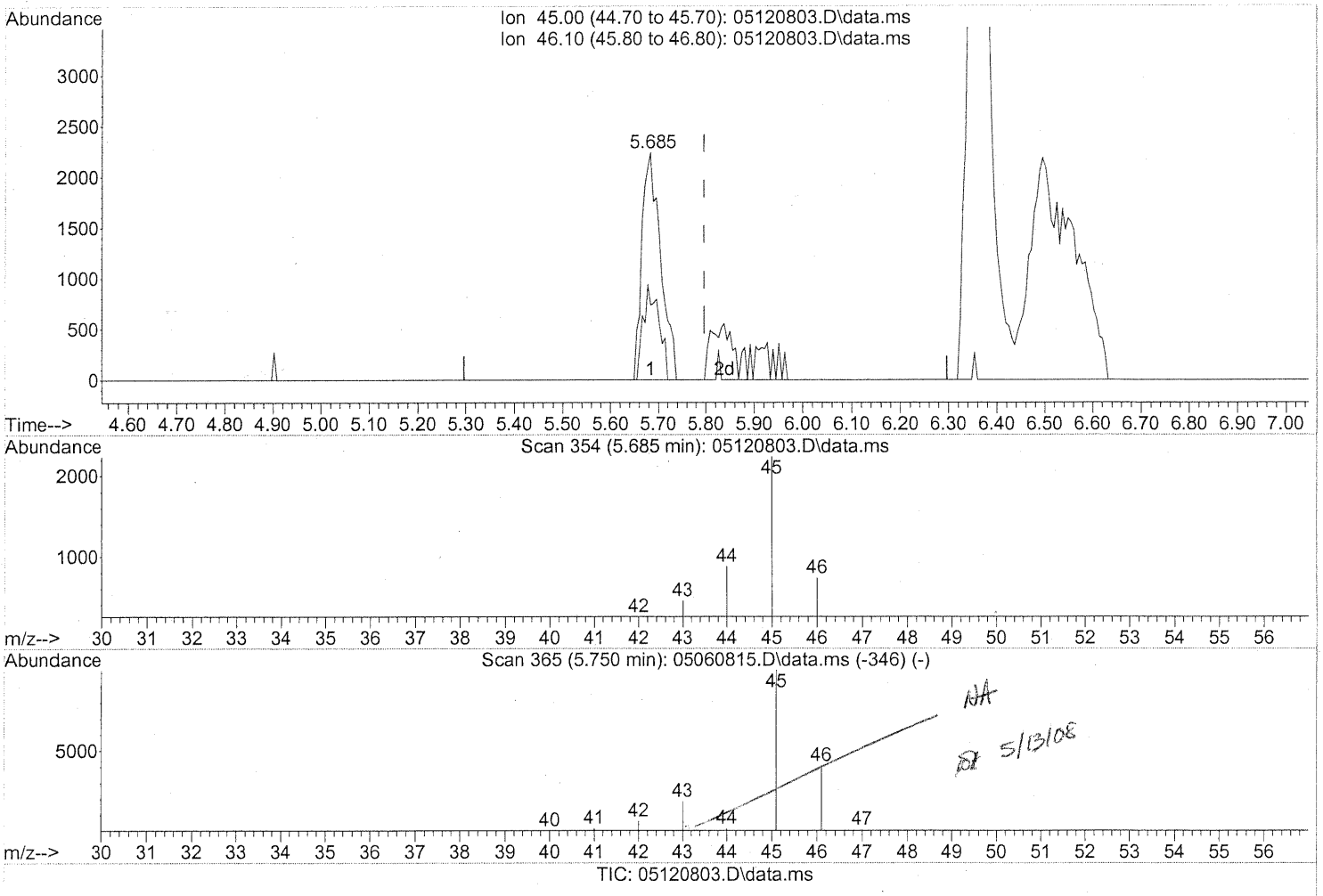
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	15677	0.407	ng		91
81) 2-Ethyltoluene	19.56	105	37326	0.446	ng		98
82) 1,2,4-Trimethylbenzene	19.83	105	33251	0.486	ng		98
83) n-Decane	19.92	57	26164	0.520	ng		80
84) Benzyl Chloride	19.99	91	26826	0.503	ng		96
85) 1,3-Dichlorobenzene	20.02	146	19475	0.441	ng		98
86) 1,4-Dichlorobenzene	20.10	146	19169	0.452	ng		99
87) sec-Butylbenzene	20.16	105	43131	0.476	ng		97
88) p-Isopropyltoluene	20.34	119	39136	0.498	ng		100
89) 1,2,3-Trimethylbenzene	20.34	105	33385	0.498	ng		96
90) 1,2-Dichlorobenzene	20.52	146	18242	0.449	ng		98
91) d-Limonene	20.51	68	11499	0.522	ng		98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	5206	0.405	ng	#	75
93) n-Undecane	21.43	57	26141	0.498	ng		80
94) 1,2,4-Trichlorobenzene	22.55	184	2944	0.398	ng	#	66
95) Naphthalene	22.69	128	45233	0.431	ng		99
96) n-Dodecane	22.66	57	26190	0.532	ng		79
97) Hexachloro-1,3-butadiene	23.11	225	5085	0.430	ng		90

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

5/13/08

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:43:12 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120803.D\data.ms

(10) Ethanol (T)

5.685min (-0.113) 0.32ng

response 6084

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	35.16
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

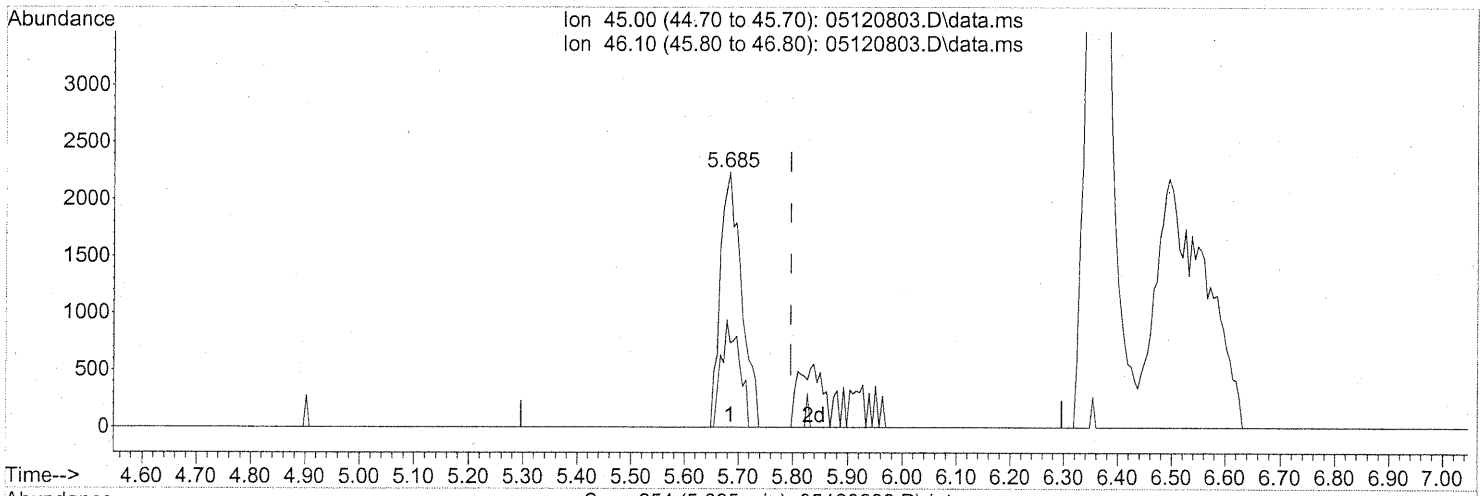
NA
5/13/08

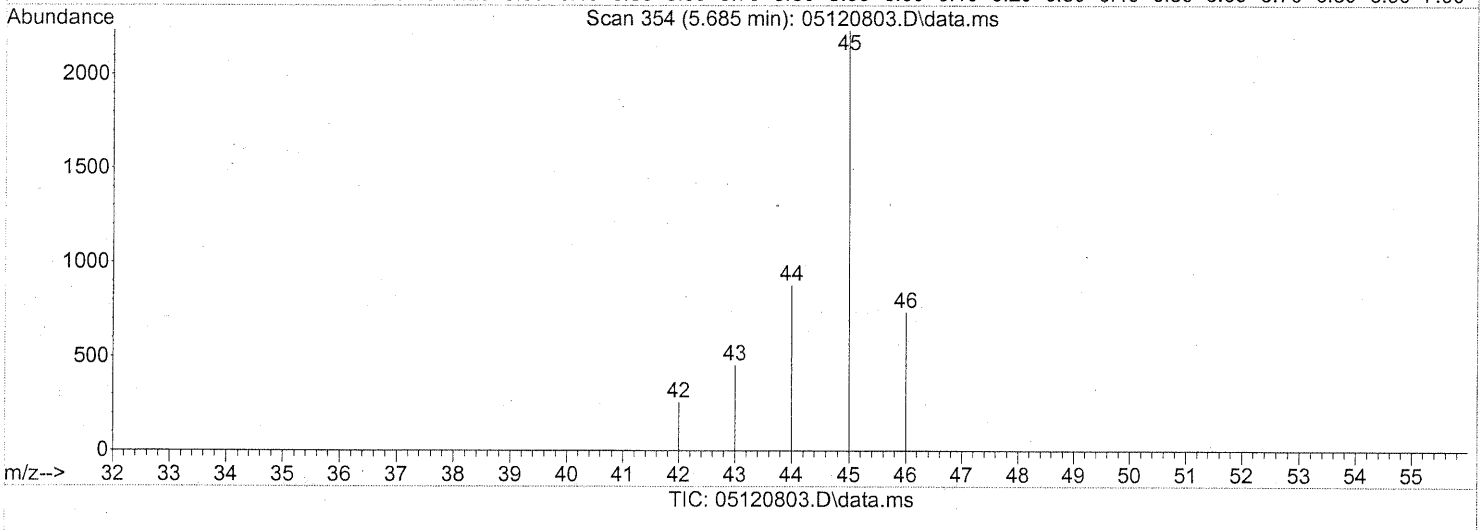
1010

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120803.D\data.ms

(10) Ethanol (T)

5.685min (-0.113) 0.48ng m

response 8961

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	23.87
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

JDT 5/13/08

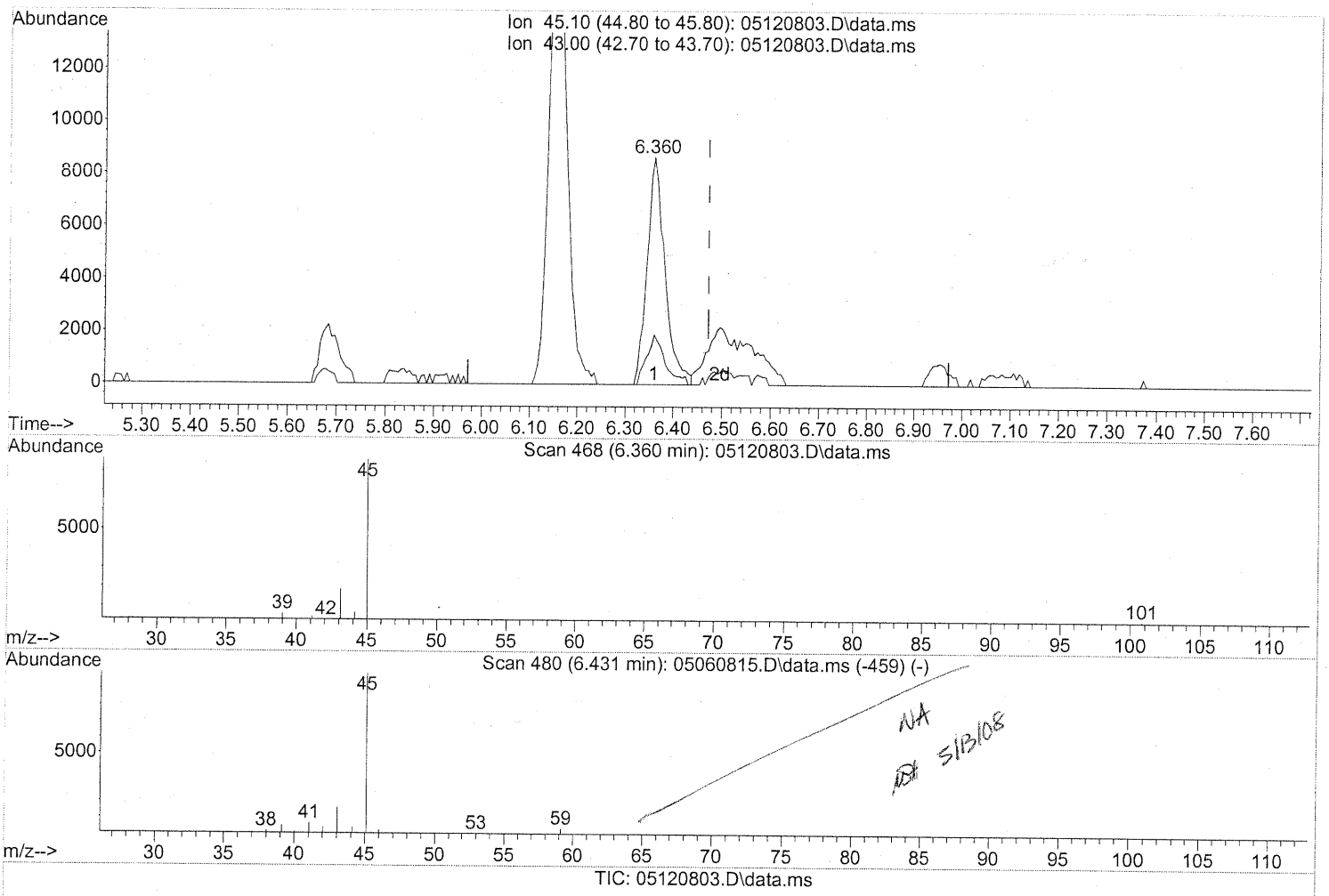
Em 5/13/08

1011

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:43:12 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120803.D\data.ms

(15) Isopropanol (T)

6.360min (-0.113) 0.36ng

response 22321

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	22.63
0.00	0.00	0.00
0.00	0.00	0.00

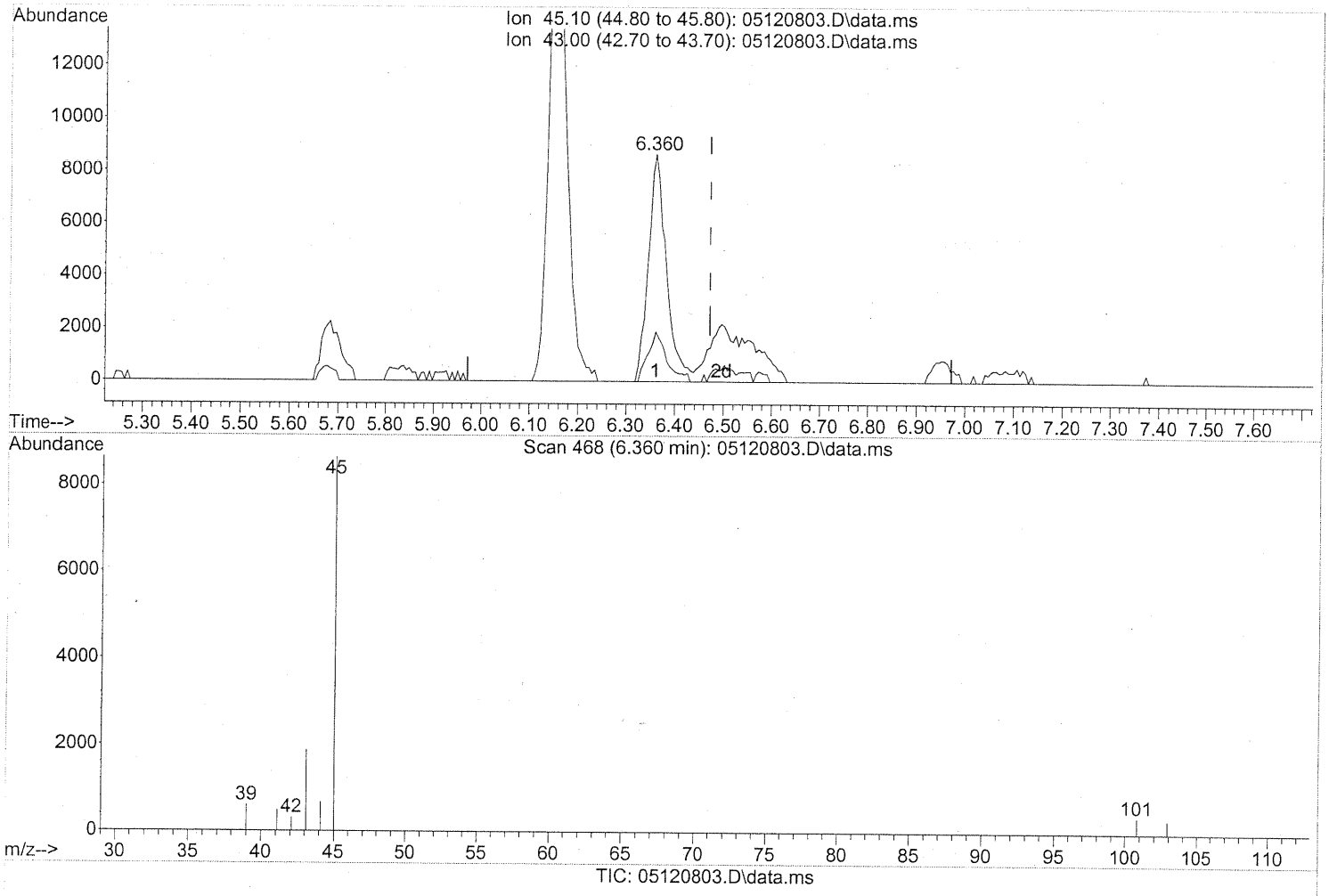
split peaks

1012

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120803.D\data.ms

(15) Isopropanol (T)

6.360min (-0.113) 0.59ng m

response 36301

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	13.91
0.00	0.00	0.00
0.00	0.00	0.00

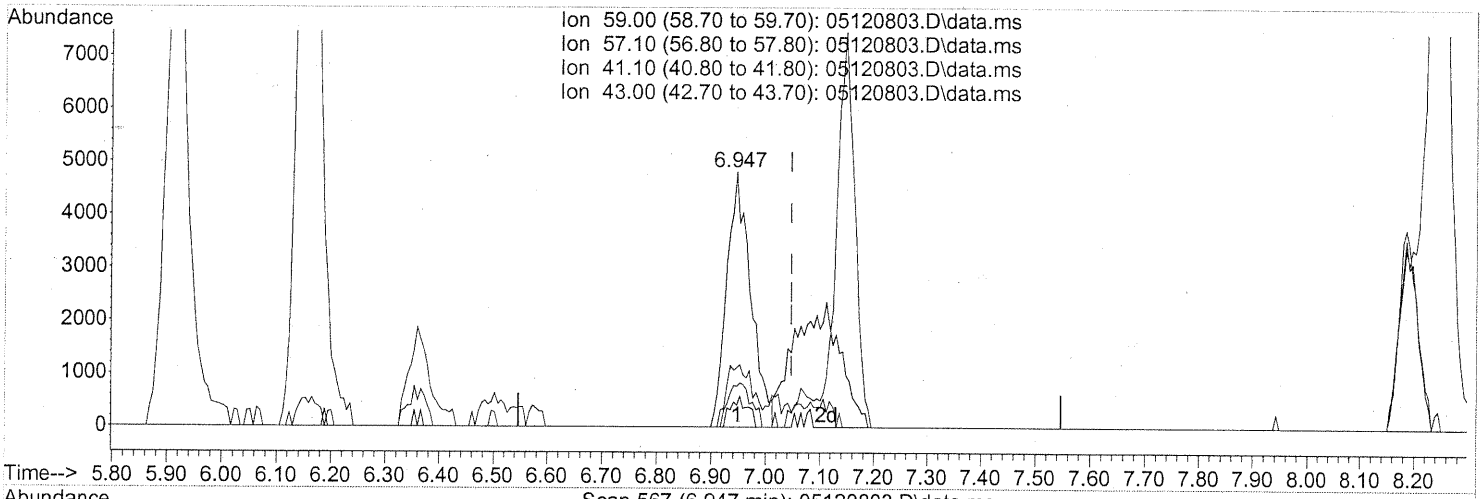
int. whole peaks
KH 5/13/08
Em 5/13/08

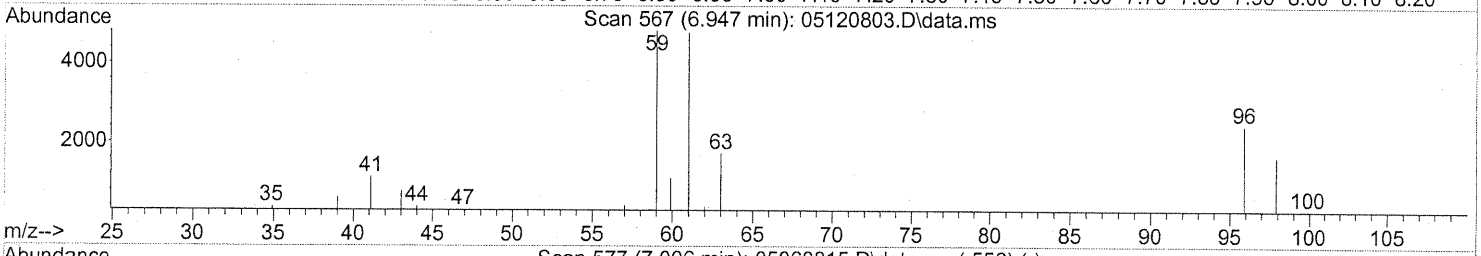
1013

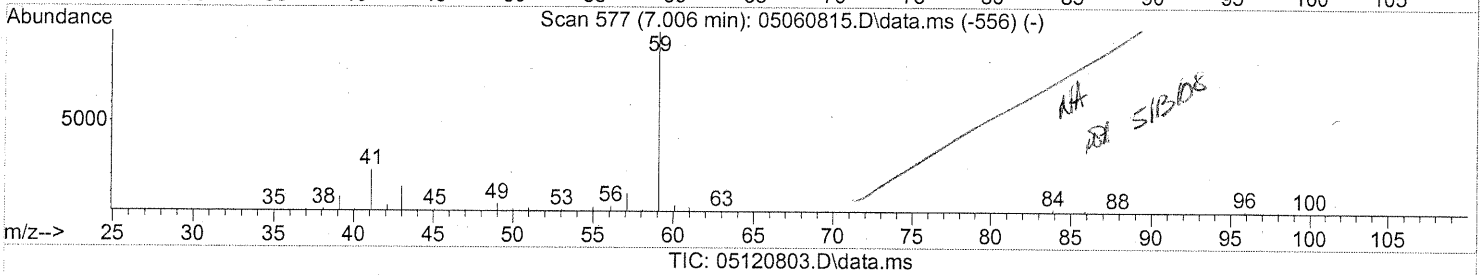
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:43:12 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration







TIC: 05120803.D\data.ms

(18) tert-Butanol (T)

6.947min (-0.101) 0.28ng

response 14746

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	8.61
41.10	21.90	28.23
43.00	17.20	16.47

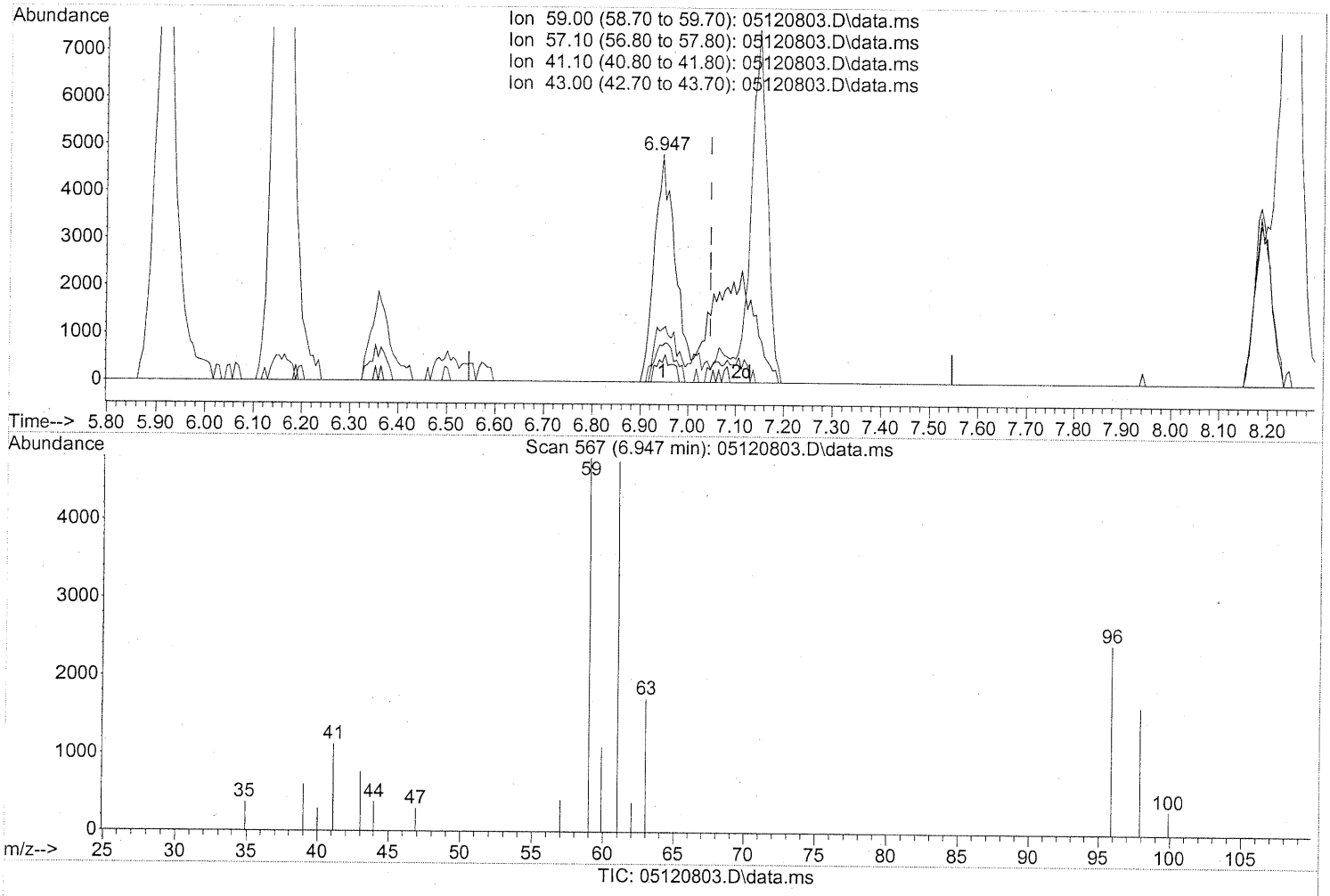
split peaks

1014

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120803.D
Acq On : 12 May 2008 16:59
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:45:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.947min (-0.101) 0.54ng m

response 28643

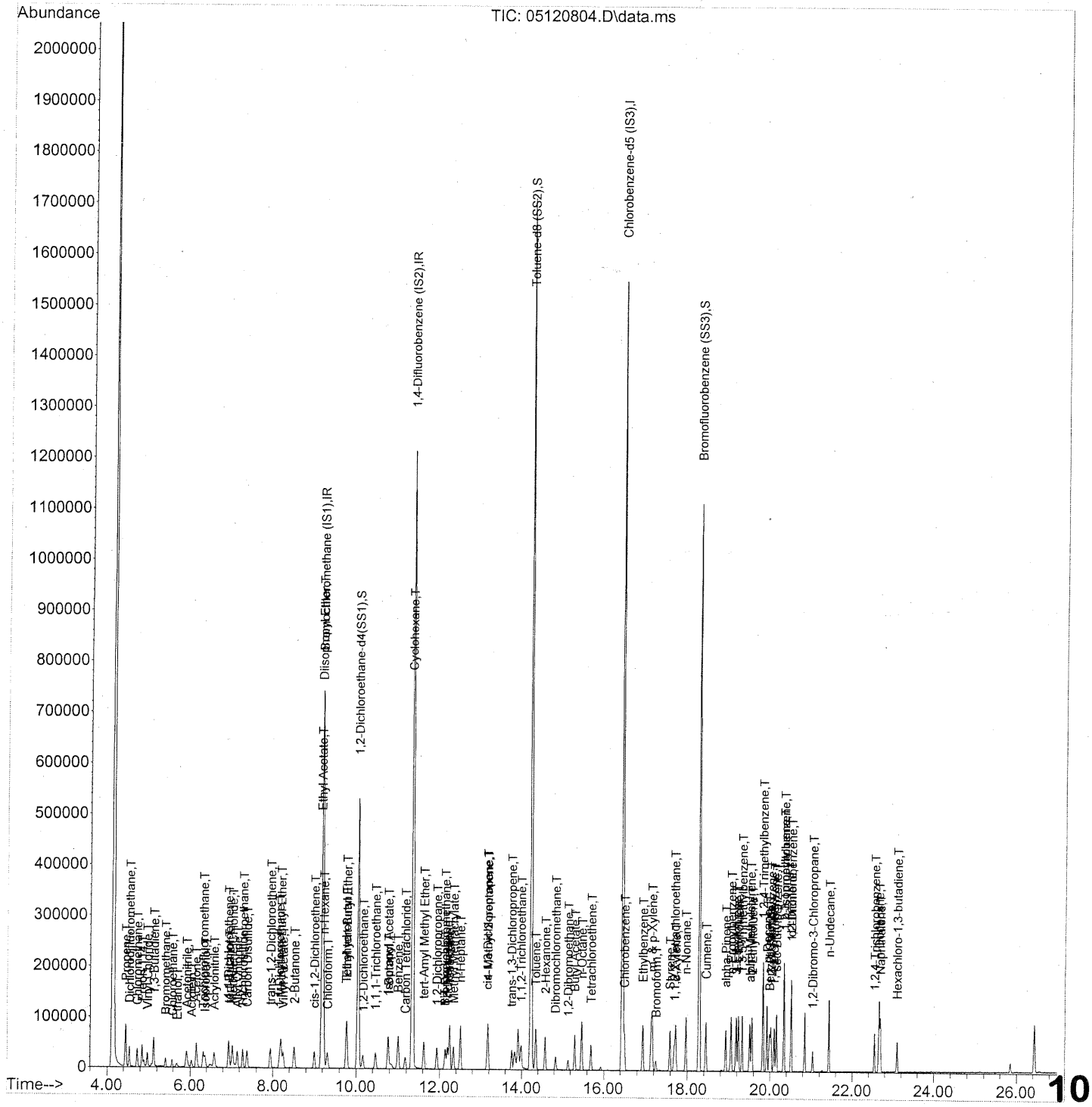
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	4.43
41.10	21.90	14.53
43.00	17.20	8.48

int. whole peaks
MA 5/13/08
Em 5/13/08

1015

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:50:45 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:50:45 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	272724	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1191702	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	520439	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	499695	31.097	ng		-0.05
Spiked Amount 25.000			Recovery =	124.40%			
57) Toluene-d8 (SS2)	14.22	98	1277020	25.076	ng		-0.02
Spiked Amount 25.000			Recovery =	100.32%			
73) Bromofluorobenzene (SS3)	18.28	174	322796	17.001	ng		-0.01
Spiked Amount 25.000			Recovery =	68.00%			
Target Compounds							Qvalue
2) Propene	4.45	42	28120	1.071	ng		98
3) Dichlorodifluoromethane	4.54	85	34763	1.088	ng		97
4) Chloromethane	4.73	50	44403	1.121	ng		97
5) Freon 114	4.85	135	16923	0.945	ng		97
6) Vinyl Chloride	4.97	62	29743	1.157	ng		94
7) 1,3-Butadiene	5.12	54	26800	1.196	ng		98
8) Bromomethane	5.41	94	12517	1.100	ng		96
9) Chloroethane	5.58	64	14079	1.144	ng		96
10) Ethanol	5.69	45	19135m	1.041	ng		
11) Acetonitrile	5.92	41	50836	0.971	ng		91
12) Acrolein	6.03	56	13802	0.982	ng		100
13) Acetone	6.15	58	24119	1.321	ng		88
14) Trichlorofluoromethane	6.32	101	28712	1.033	ng		98
15) Isopropanol	6.37	45	69188m	1.142	ng		
16) Acrylonitrile	6.59	53	33455	1.011	ng		94
17) 1,1-Dichloroethene	6.93	96	14880	1.057	ng	#	75
18) tert-Butanol	6.95	59	54795m	1.058	ng		
19) Methylene Chloride	7.03	84	15465	1.013	ng	#	30
20) Allyl Chloride	7.15	41	30782	1.111	ng		78
21) Trichlorotrifluoroethane	7.29	151	12770	0.904	ng		91
22) Carbon Disulfide	7.39	76	55729	0.952	ng		100
23) trans-1,2-Dichloroethene	7.94	61	31675	1.155	ng		86
24) 1,1-Dichloroethane	8.16	63	36430	1.172	ng		93
25) Methyl tert-Butyl Ether	8.19	73	48353	1.168	ng		84
26) Vinyl Acetate	8.24	86	3482	1.483	ng	#	1
27) 2-Butanone	8.52	72	11165	1.196	ng	#	7
28) cis-1,2-Dichloroethene	9.00	61	29174	1.158	ng		86
29) Diisopropyl Ether	9.18	87	12344	1.016	ng	#	1
30) Ethyl Acetate	9.17	61	8698	1.364	ng		89
31) n-Hexane	9.23	57	42725	1.120	ng		91

JDH 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:50:45 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	27070	1.312	ng		96
34) Tetrahydrofuran	9.76	72	10564	1.204	ng	#	42
35) Ethyl tert-Butyl Ether	9.77	87	17728	1.031	ng	#	62
36) 1,2-Dichloroethane	10.17	62	28016	1.225	ng		95
38) 1,1,1-Trichloroethane	10.47	97	25247	1.065	ng		88
39) Isopropyl Acetate	10.77	61	12281	1.045	ng	#	49
40) 1-Butanol	10.77	56	19934	0.907	ng		83
41) Benzene	11.00	78	63754	1.083	ng		100
42) Carbon Tetrachloride	11.17	117	17914	0.898	ng		97
43) Cyclohexane	11.33	84	25502	1.064	ng	#	1
44) tert-Amyl Methyl Ether	11.62	73	42350	1.036	ng	#	74
45) 1,2-Dichloropropane	11.94	63	20068	1.128	ng		97
46) Bromodichloromethane	12.13	83	19852	1.149	ng		95
47) Trichloroethene	12.20	130	17859	0.923	ng		99
48) 1,4-Dioxane	12.14	88	12418	1.095	ng	#	59
49) Isooctane	12.24	57	100038	1.035	ng		100
50) Methyl Methacrylate	12.34	100	5687	0.871	ng		100
51) n-Heptane	12.51	71	16432	1.121	ng	#	56
52) cis-1,3-Dichloropropene	13.16	75	23271	1.027	ng		100
53) 4-Methyl-2-pentanone	13.17	58	21906	1.069	ng		80
54) trans-1,3-Dichloropropene	13.76	75	24234	1.243	ng		97
55) 1,1,2-Trichloroethane	13.99	97	15541	1.027	ng		96
58) Toluene	14.34	91	66921	1.002	ng		99
59) 2-Hexanone	14.59	43	64856	1.067	ng		93
60) Dibromochloromethane	14.83	129	17239	0.916	ng		95
61) 1,2-Dibromoethane	15.14	107	17710	0.976	ng		100
62) Butyl Acetate	15.31	43	68021	1.090	ng		96
63) n-Octane	15.47	57	20608	1.025	ng		88
64) Tetrachloroethene	15.69	166	16384	0.846	ng		99
65) Chlorobenzene	16.49	112	44911	0.936	ng		99
66) Ethylbenzene	16.94	91	73993	0.980	ng		97
67) m- & p-Xylene	17.16	91	117409	2.383	ng		98
68) Bromoform	17.25	173	11169	1.019	ng		97
69) Styrene	17.58	104	43630	0.917	ng		97
70) o-Xylene	17.73	91	59950	1.131	ng		99
71) n-Nonane	17.96	43	55379	1.066	ng		89
72) 1,1,2,2-Tetrachloroethane	17.70	83	27113	1.247	ng		96
74) Cumene	18.45	105	72871	0.940	ng		100
75) alpha-Pinene	18.93	93	34829	0.936	ng		100
76) n-Propylbenzene	19.06	91	88359	0.962	ng		93
77) 3-Ethyltoluene	19.18	105	73681	0.880	ng		98
78) 4-Ethyltoluene	19.24	105	73442	0.935	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	63644	0.937	ng		97

ADA 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:50:45 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	30184	0.785	ng		95
81) 2-Ethyltoluene	19.56	105	70501	0.843	ng		95
82) 1,2,4-Trimethylbenzene	19.82	105	65548	0.958	ng		97
83) n-Decane	19.92	57	48977	0.975	ng		81
84) Benzyl Chloride	19.99	91	53077	0.995	ng		96
85) 1,3-Dichlorobenzene	20.02	146	36401	0.824	ng		99
86) 1,4-Dichlorobenzene	20.10	146	37339	0.881	ng		100
87) sec-Butylbenzene	20.16	105	81793	0.903	ng		98
88) p-Isopropyltoluene	20.34	119	76635	0.977	ng		98
89) 1,2,3-Trimethylbenzene	20.34	105	63056	0.941	ng		92
90) 1,2-Dichlorobenzene	20.52	146	35397	0.871	ng		98
91) d-Limonene	20.51	68	22147	1.007	ng		95
92) 1,2-Dibromo-3-Chloropr...	21.03	157	10663	0.829	ng	#	81
93) n-Undecane	21.44	57	51445	0.980	ng		80
94) 1,2,4-Trichlorobenzene	22.55	184	5830	0.788	ng	#	74
95) Naphthalene	22.69	128	86011	0.820	ng		100
96) n-Dodecane	22.66	57	51525	1.048	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	9231	0.782	ng		99

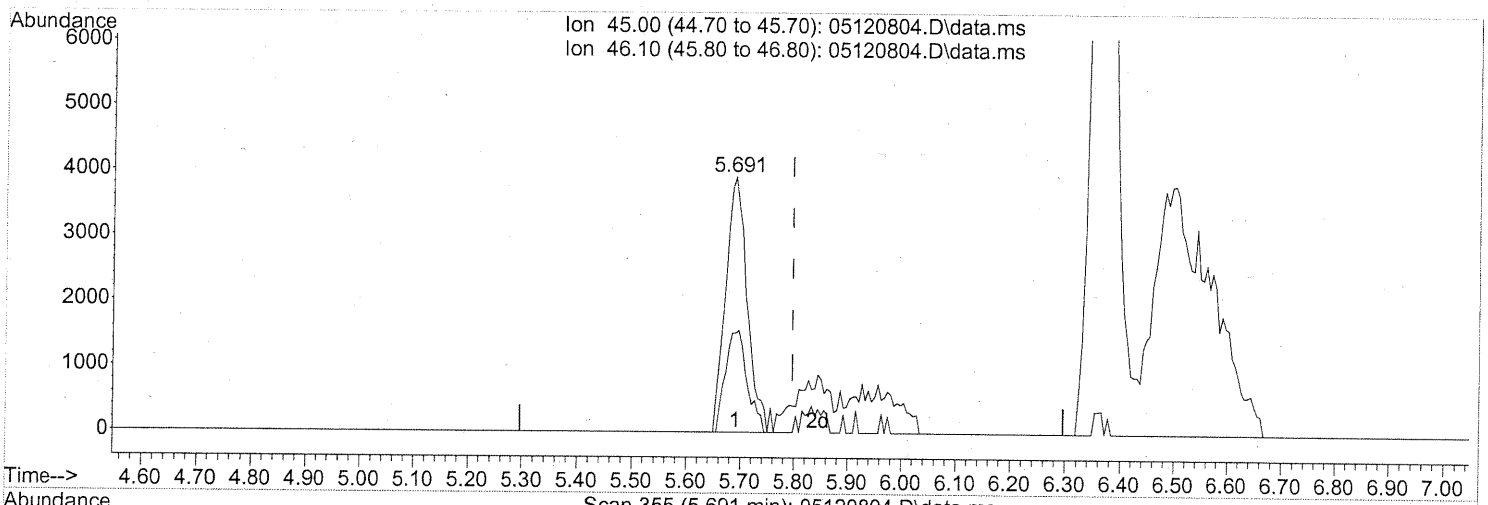
(#) = qualifier out of range (m) = manual integration (+) = signals summed

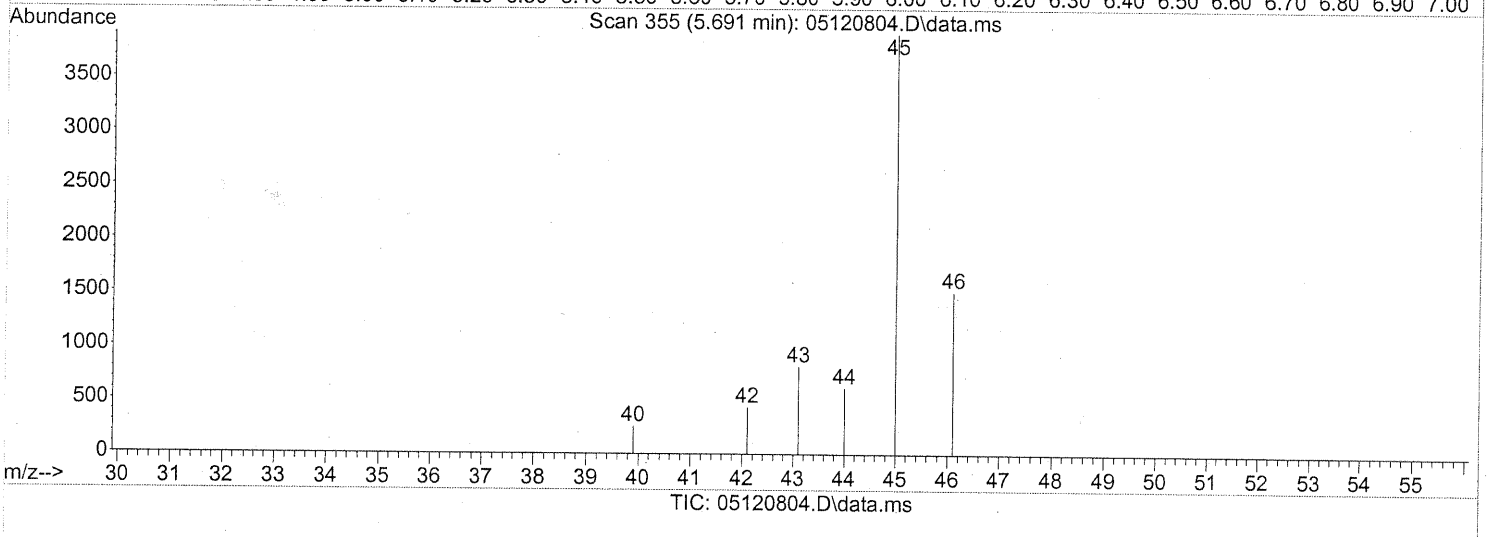
1019

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120804.D\data.ms

(10) Ethanol (T)

5.691min (-0.107) 0.59ng

response 10757

split peaks

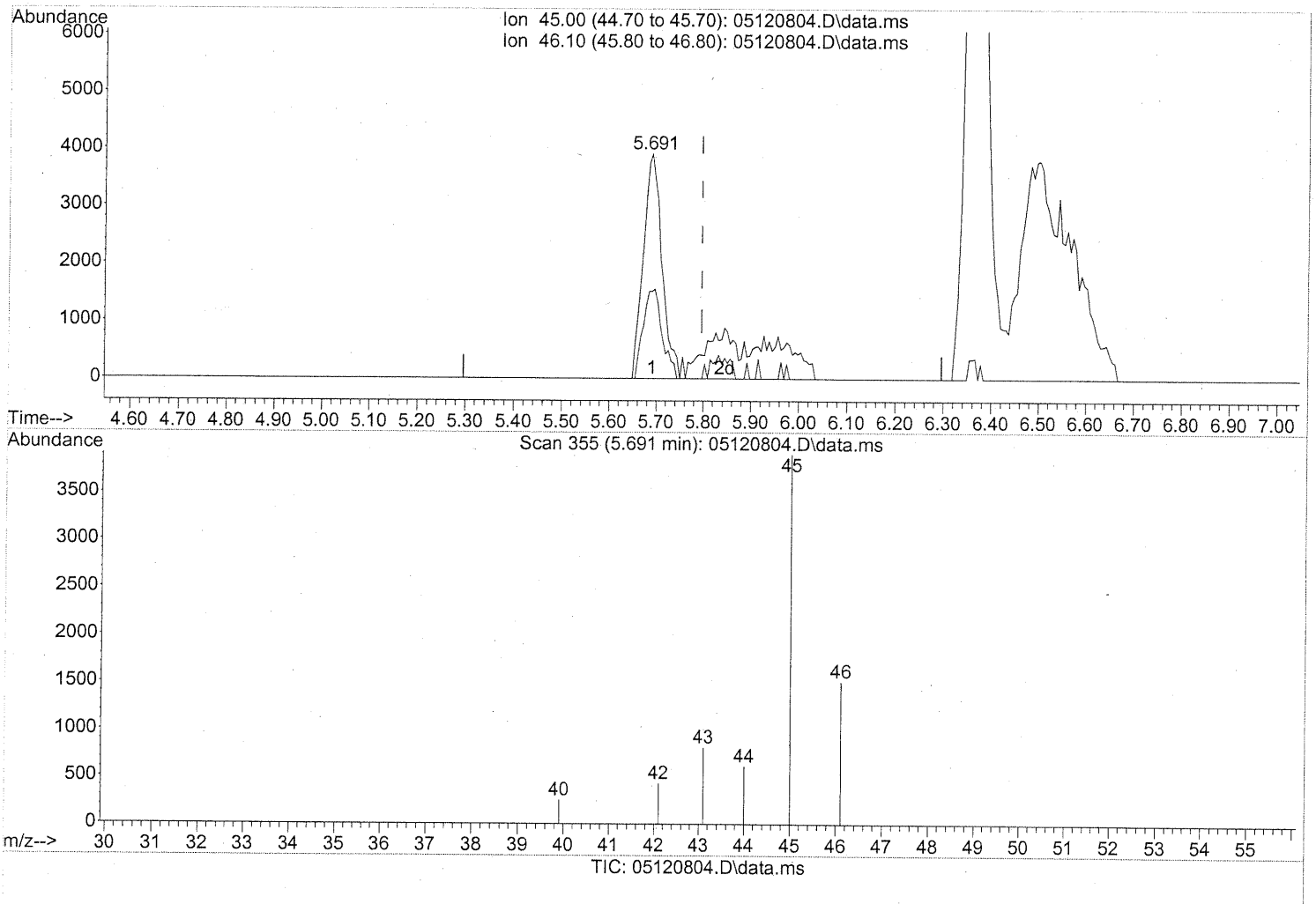
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.47
0.00	0.00	0.00
0.00	0.00	0.00

1020

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.691min (-0.107) 1.04ng m

response 19135

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	22.75
0.00	0.00	0.00
0.00	0.00	0.00

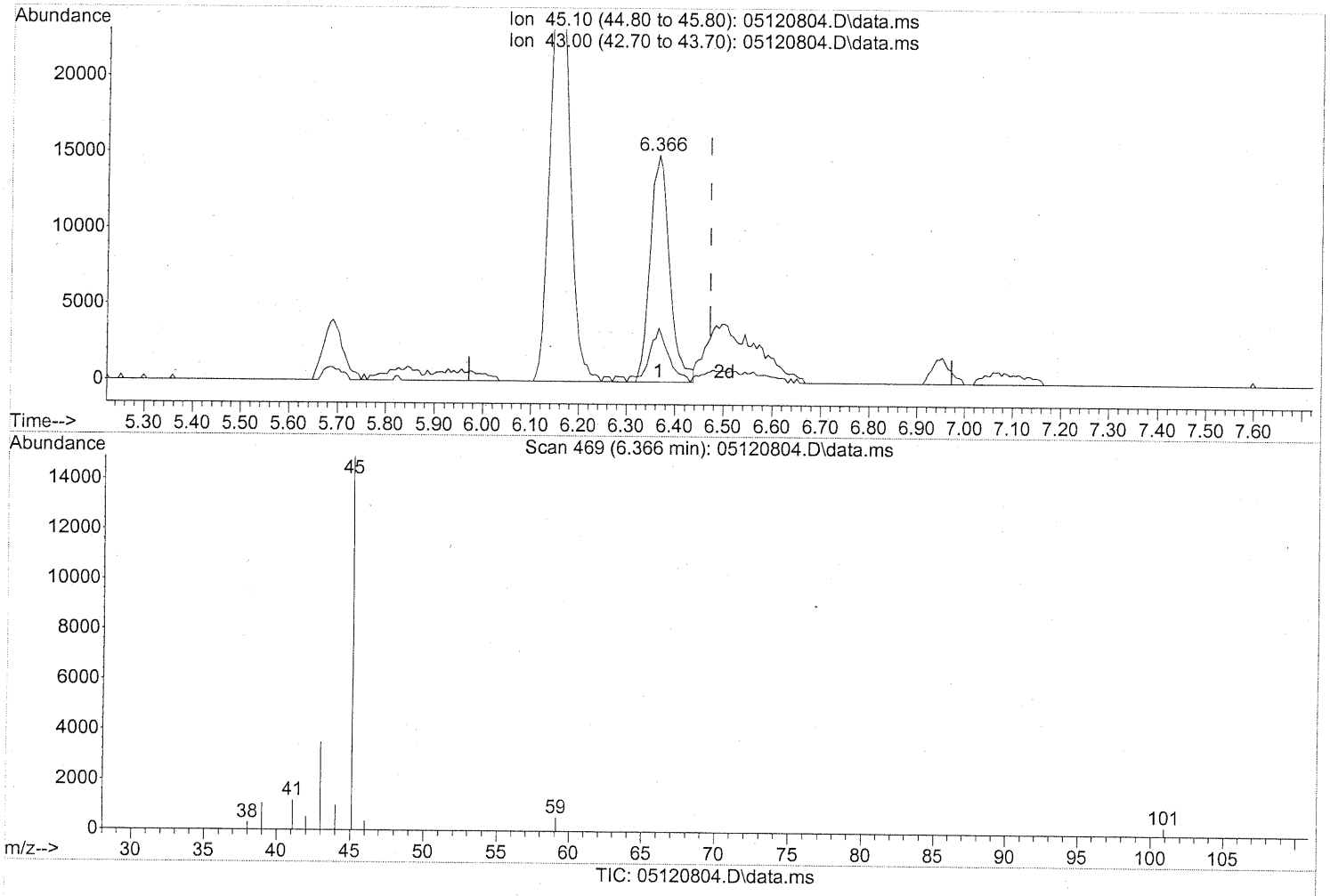
int. whole peaks
KM 5/13/08
Em 5/13/08

1021

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.366min (-0.107) 0.68ng

response 41339

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	22.29
0.00	0.00	0.00
0.00	0.00	0.00

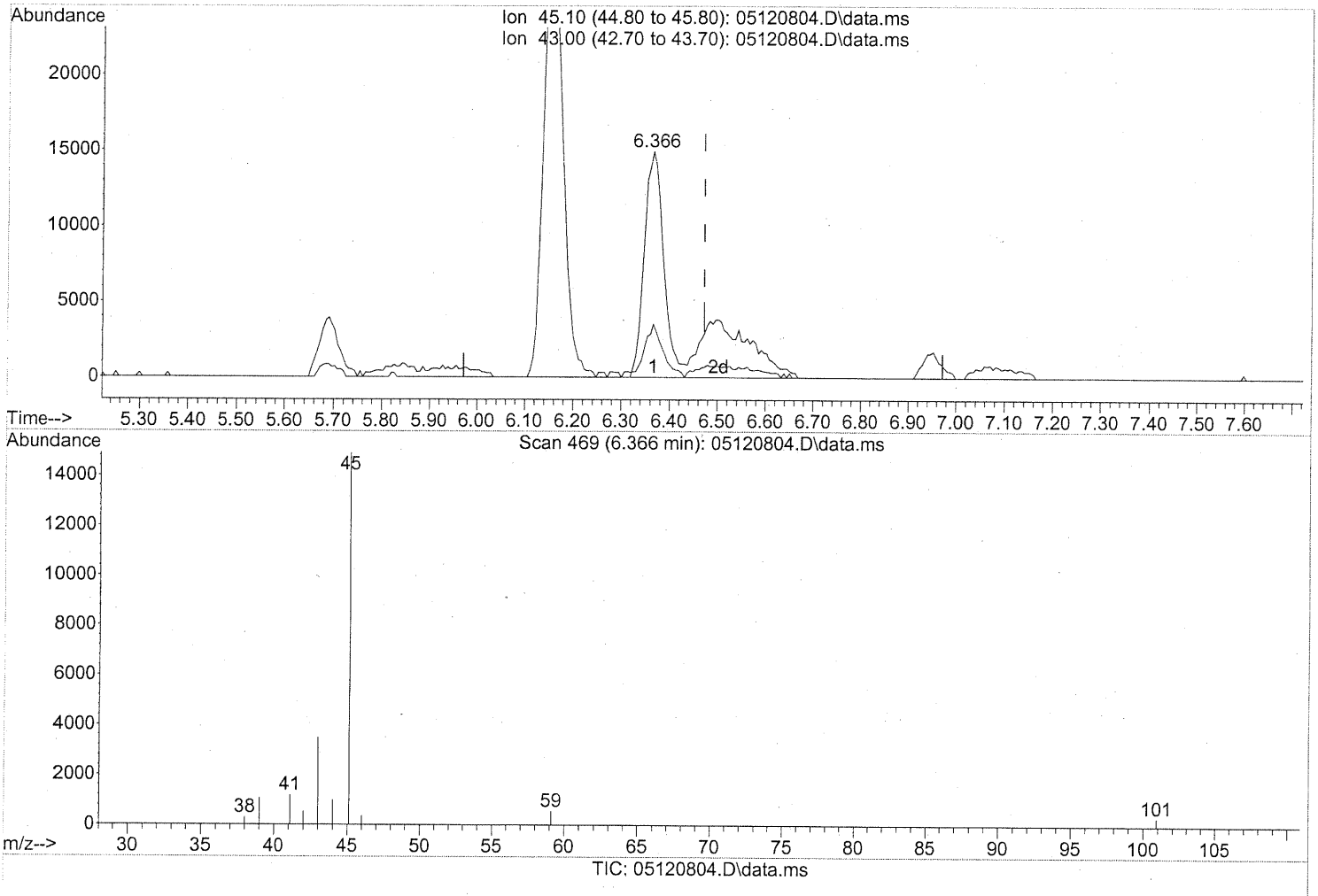
split peaks

1022

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120804.D\data.ms

(15) Isopropanol (T)

6.366min (-0.107) 1.14ng m

response 69188

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	13.32
0.00	0.00	0.00
0.00	0.00	0.00

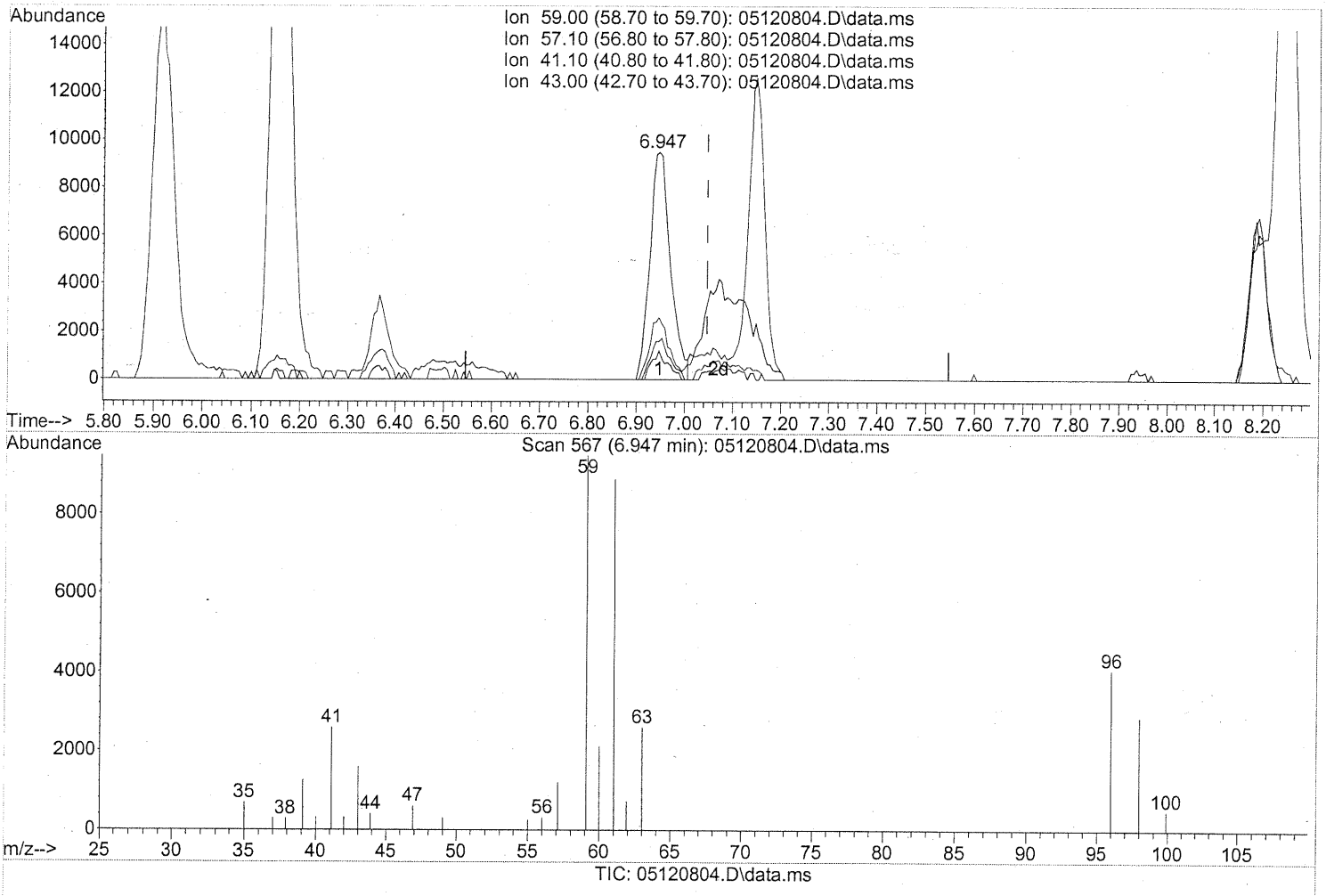
int. whole peaks
DH 5/13/08
EM 5/13/08

1023

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.947min (-0.101) 0.54ng

response 28143

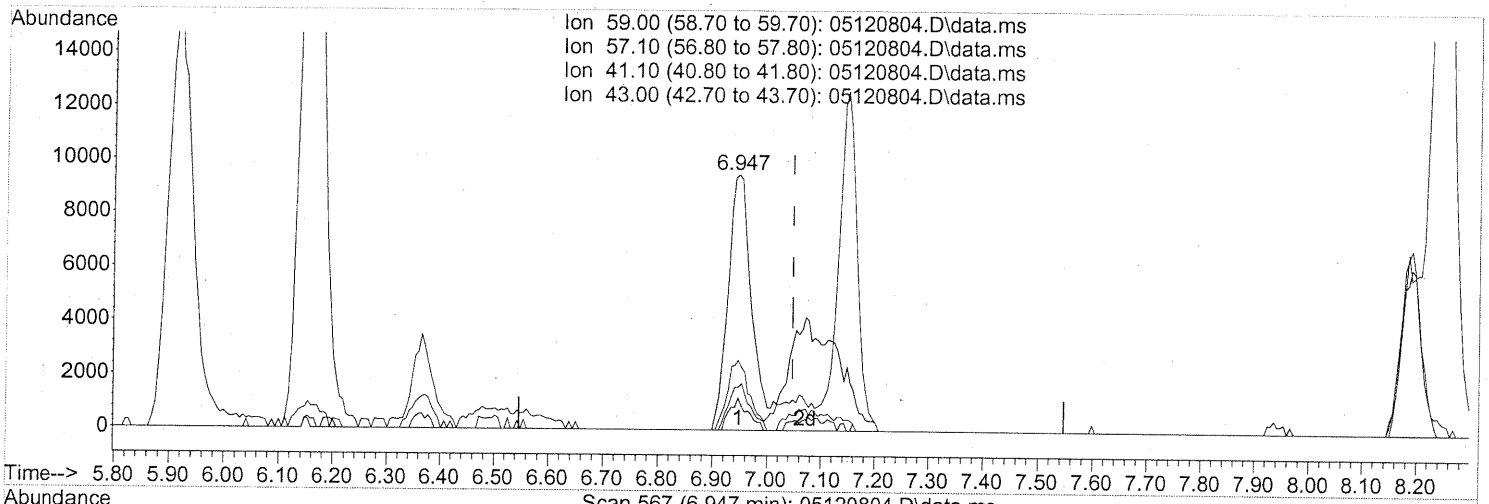
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.85
41.10	21.90	25.62
43.00	17.20	16.44

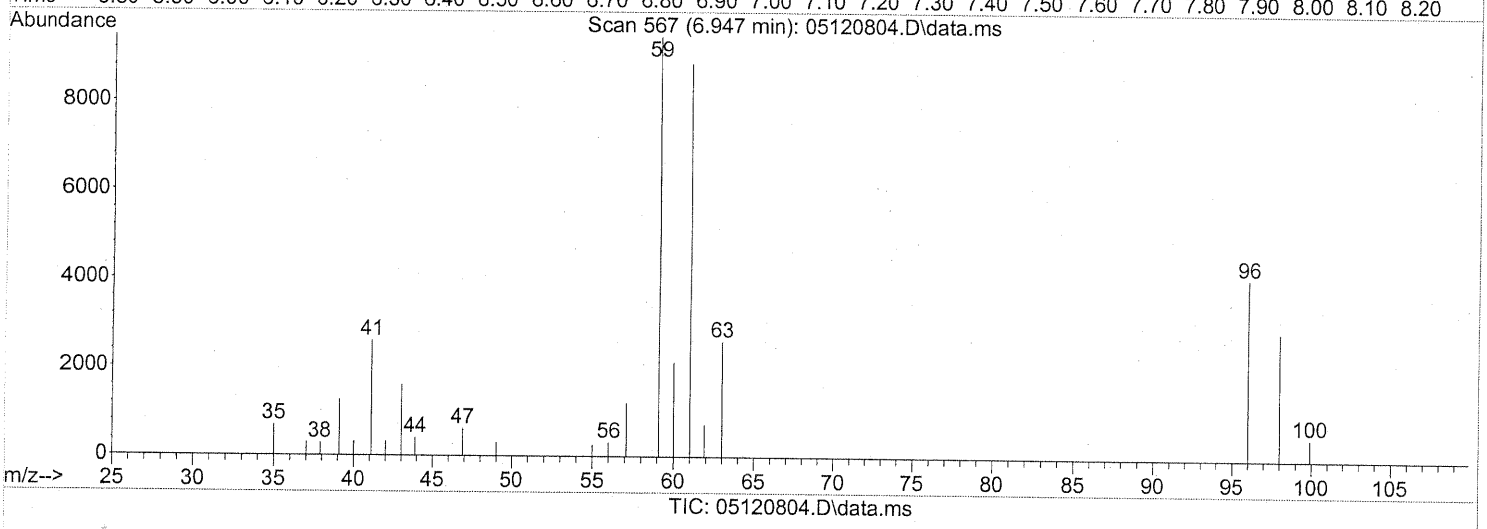
split peaks

1024

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120804.D
Acq On : 12 May 2008 17:37
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:49:34 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120804.D\data.ms

(18) tert-Butanol (T)

6.947min (-0.101) 1.06ng m

response 54795

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	5.06
41.10	21.90	13.16
43.00	17.20	8.45

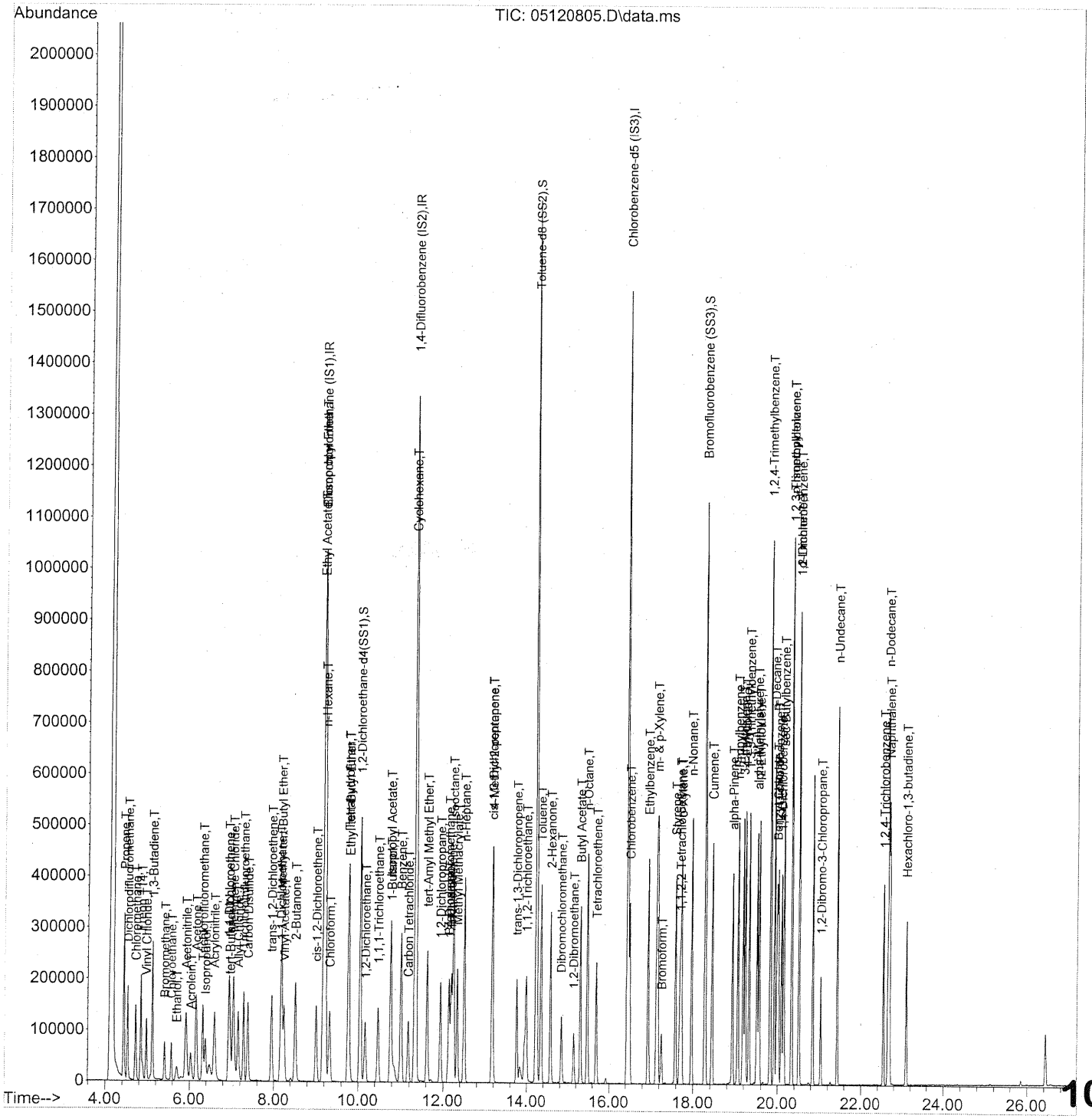
int. whole peaks
JDT 5/13/08
Em 5/13/08

1025

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:52:48 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



1026

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:52:48 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	271241	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1184085	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	517507	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	494129	30.919	ng		-0.04
Spiked Amount 25.000			Recovery =	123.68%			
57) Toluene-d8 (SS2)	14.23	98	1274859	25.176	ng		-0.02
Spiked Amount 25.000			Recovery =	100.72%			
73) Bromofluorobenzene (SS3)	18.28	174	328484	17.399	ng		-0.01
Spiked Amount 25.000			Recovery =	69.60%			
Target Compounds							Qvalue
2) Propene	4.43	42	140519	5.382	ng		96
3) Dichlorodifluoromethane	4.53	85	165062	5.194	ng		98
4) Chloromethane	4.72	50	190623	4.839	ng		98
5) Freon 114	4.85	135	79788	4.478	ng		98
6) Vinyl Chloride	4.97	62	142923	5.589	ng		95
7) 1,3-Butadiene	5.12	54	135120	6.063	ng		95
8) Bromomethane	5.41	94	56035	4.953	ng		99
9) Chloroethane	5.57	64	64169	5.243	ng		95
10) Ethanol	5.70	45	88714m	4.855	ng		
11) Acetonitrile	5.92	41	239252	4.593	ng		98
12) Acrolein	6.03	56	61177	4.378	ng		99
13) Acetone	6.16	58	97322	5.359	ng		97
14) Trichlorofluoromethane	6.32	101	137237	4.962	ng		97
15) Isopropanol	6.38	45	298706m	4.959	ng		
16) Acrylonitrile	6.60	53	157462	4.785	ng		99
17) 1,1-Dichloroethene	6.93	96	72728	5.192	ng	#	78
18) tert-Butanol	6.96	59	261098m	5.069	ng		
19) Methylene Chloride	7.03	84	73608	4.848	ng	#	32
20) Allyl Chloride	7.15	41	140481	5.098	ng		79
21) Trichlorotrifluoroethane	7.28	151	62747	4.464	ng		96
22) Carbon Disulfide	7.39	76	260133	4.469	ng		99
23) trans-1,2-Dichloroethene	7.94	61	153016	5.611	ng		85
24) 1,1-Dichloroethane	8.16	63	171572	5.552	ng		95
25) Methyl tert-Butyl Ether	8.19	73	237285	5.761	ng		82
26) Vinyl Acetate	8.25	86	18616	7.970	ng	#	1
27) 2-Butanone	8.52	72	53112	5.719	ng	#	4
28) cis-1,2-Dichloroethene	9.01	61	142060	5.672	ng		86
29) Diisopropyl Ether	9.19	87	61951	5.126	ng	#	5
30) Ethyl Acetate	9.18	61	43841	6.912	ng		85
31) n-Hexane	9.23	57	208699	5.500	ng		9[illegible]

1027

DH 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:52:48 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.33	83	131120	6.390	ng		96
34) Tetrahydrofuran	9.77	72	51276	5.878	ng	#	40
35) Ethyl tert-Butyl Ether	9.79	87	91489	5.349	ng	#	70
36) 1,2-Dichloroethane	10.18	62	132568	5.828	ng		98
38) 1,1,1-Trichloroethane	10.48	97	123272	5.234	ng		89
39) Isopropyl Acetate	10.77	61	61451	5.261	ng	#	49
40) 1-Butanol	10.78	56	101629	4.654	ng		87
41) Benzene	11.01	78	299551	5.121	ng		100
42) Carbon Tetrachloride	11.18	117	94978	4.792	ng		98
43) Cyclohexane	11.33	84	118085	4.959	ng	#	22
44) tert-Amyl Methyl Ether	11.63	73	210824	5.189	ng	#	75
45) 1,2-Dichloropropane	11.94	63	96843	5.476	ng		97
46) Bromodichloromethane	12.14	83	100636	5.863	ng		94
47) Trichloroethene	12.20	130	85527	4.449	ng		97
48) 1,4-Dioxane	12.14	88	63595	5.644	ng	#	66
49) Isooctane	12.24	57	489009	5.093	ng		100
50) Methyl Methacrylate	12.34	100	30050	4.631	ng		99
51) n-Heptane	12.51	71	82333	5.654	ng	#	58
52) cis-1,3-Dichloropropene	13.17	75	120080	5.334	ng		98
53) 4-Methyl-2-pentanone	13.18	58	109644	5.387	ng		82
54) trans-1,3-Dichloropropene	13.76	75	120604	6.226	ng		98
55) 1,1,2-Trichloroethane	13.99	97	75407	5.017	ng		95
58) Toluene	14.35	91	321557	4.844	ng		99
59) 2-Hexanone	14.58	43	328454	5.436	ng		92
60) Dibromochloromethane	14.84	129	88632	4.737	ng		99
61) 1,2-Dibromoethane	15.14	107	86576	4.796	ng		97
62) Butyl Acetate	15.31	43	347071	5.594	ng		96
63) n-Octane	15.47	57	100573	5.029	ng		91
64) Tetrachloroethene	15.69	166	78748	4.089	ng		98
65) Chlorobenzene	16.50	112	215852	4.524	ng		100
66) Ethylbenzene	16.94	91	365270	4.865	ng		96
67) m- & p-Xylene	17.16	91	575778	11.753	ng		96
68) Bromoform	17.26	173	56388	5.173	ng		100
69) Styrene	17.59	104	225122	4.759	ng		97
70) o-Xylene	17.73	91	294991	5.599	ng		97
71) n-Nonane	17.96	43	277032	5.362	ng		90
72) 1,1,2,2-Tetrachloroethane	17.70	83	133466	6.175	ng		95
74) Cumene	18.45	105	358374	4.649	ng		97
75) alpha-Pinene	18.93	93	176507	4.769	ng		99
76) n-Propylbenzene	19.06	91	436440	4.780	ng		95
77) 3-Ethyltoluene	19.19	105	361276	4.340	ng		97
78) 4-Ethyltoluene	19.24	105	368271	4.715	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	310196	4.591	ng		94

1028

DF 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:52:48 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

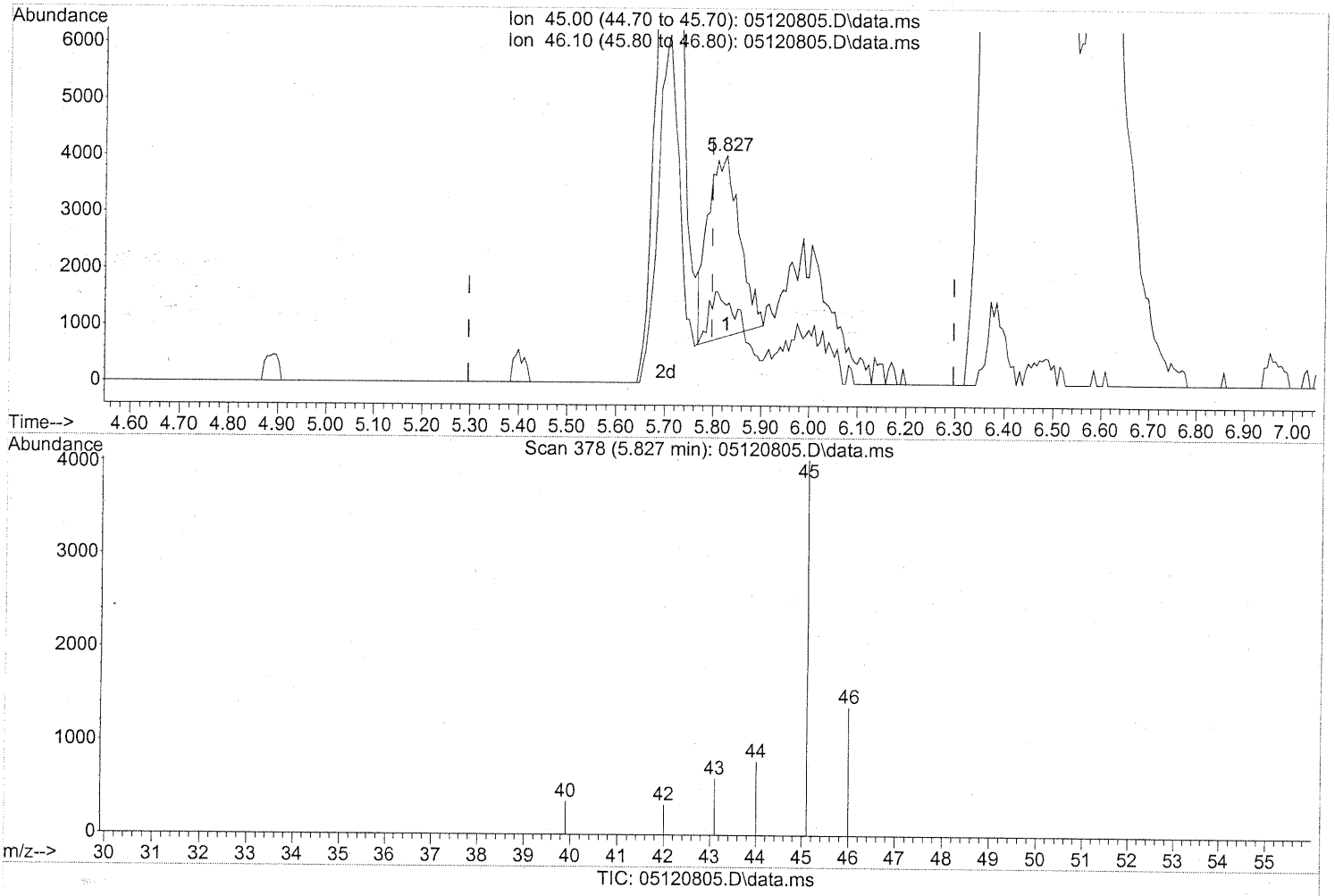
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	166182	4.345	ng		99
81) 2-Ethyltoluene	19.56	105	352282	4.235	ng		95
82) 1,2,4-Trimethylbenzene	19.83	105	323449	4.756	ng		94
83) n-Decane	19.92	57	252493	5.055	ng		81
84) Benzyl Chloride	19.99	91	272433	5.138	ng		95
85) 1,3-Dichlorobenzene	20.02	146	178889	4.072	ng		100
86) 1,4-Dichlorobenzene	20.10	146	179042	4.250	ng		98
87) sec-Butylbenzene	20.16	105	414365	4.599	ng		98
88) p-Isopropyltoluene	20.34	119	387130	4.962	ng		97
89) 1,2,3-Trimethylbenzene	20.34	105	319103	4.788	ng		92
90) 1,2-Dichlorobenzene	20.52	146	172538	4.272	ng		99
91) d-Limonene	20.51	68	118857	5.435	ng		96
92) 1,2-Dibromo-3-Chloropr...	21.04	157	54425	4.258	ng	#	81
93) n-Undecane	21.44	57	268851	5.150	ng		80
94) 1,2,4-Trichlorobenzene	22.54	184	32122	4.367	ng	#	83
95) Naphthalene	22.69	128	439780	4.215	ng		99
96) n-Dodecane	22.66	57	262818	5.376	ng		79
97) Hexachloro-1,3-butadiene	23.11	225	46786	3.984	ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.827min (+0.030) 0.81ng

response 14818

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	57.86#
0.00	0.00	0.00
0.00	0.00	0.00

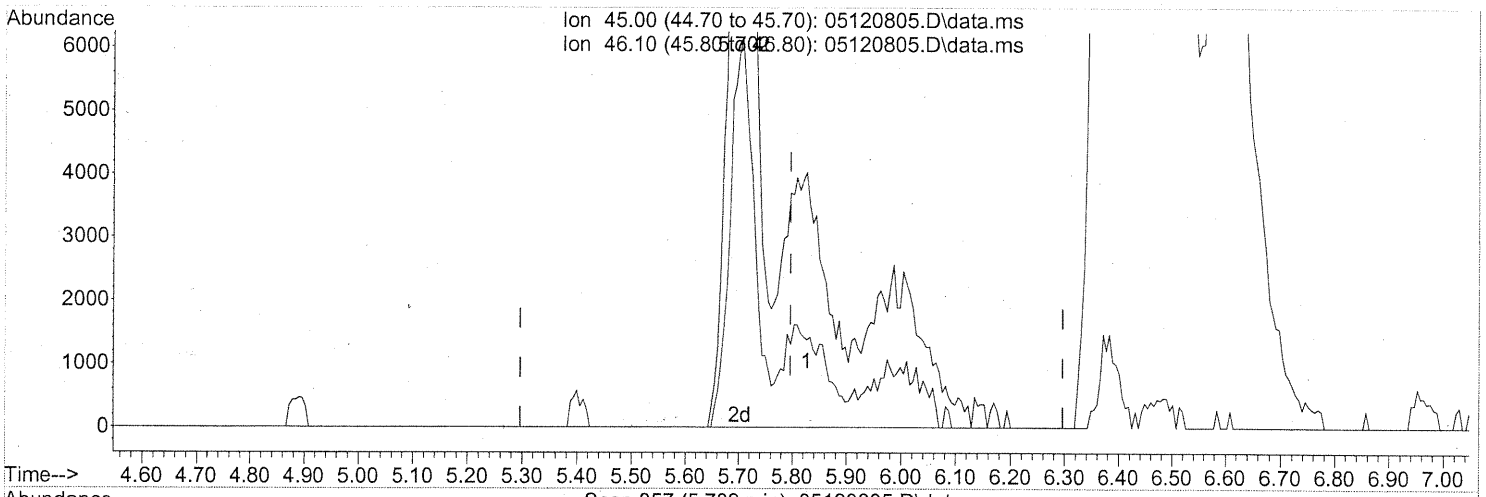
split peaks

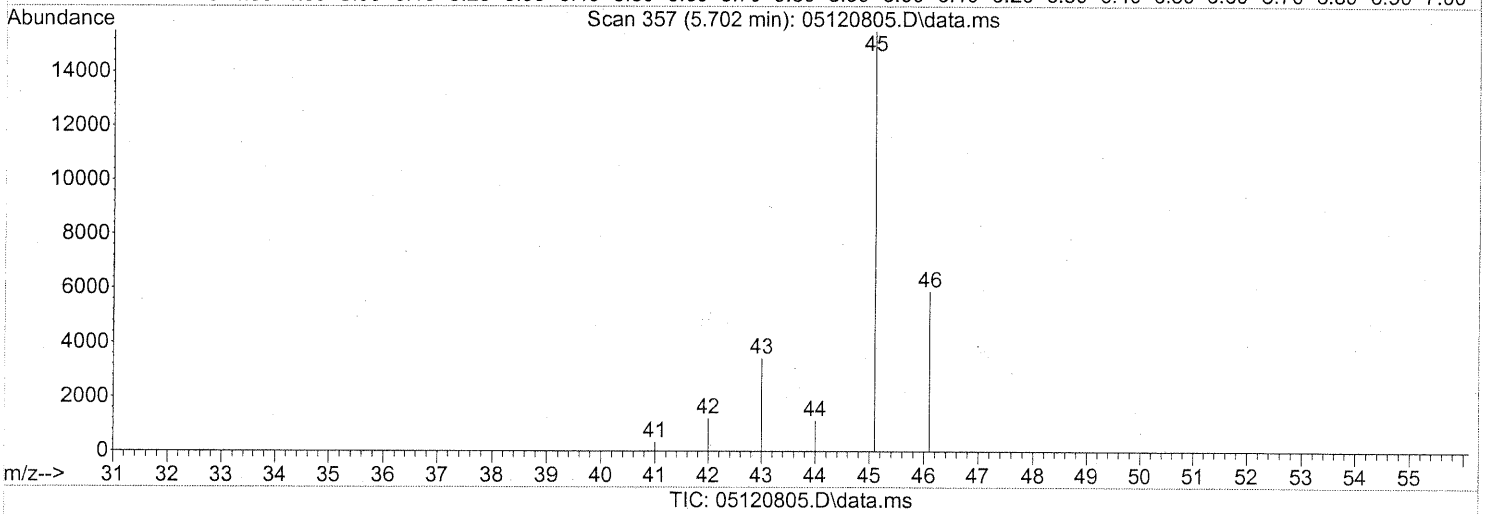
1030

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120805.D\data.ms

(10) Ethanol (T)

5.702min (-0.095) 4.85ng m

response 88714

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	9.66#
0.00	0.00	0.00
0.00	0.00	0.00

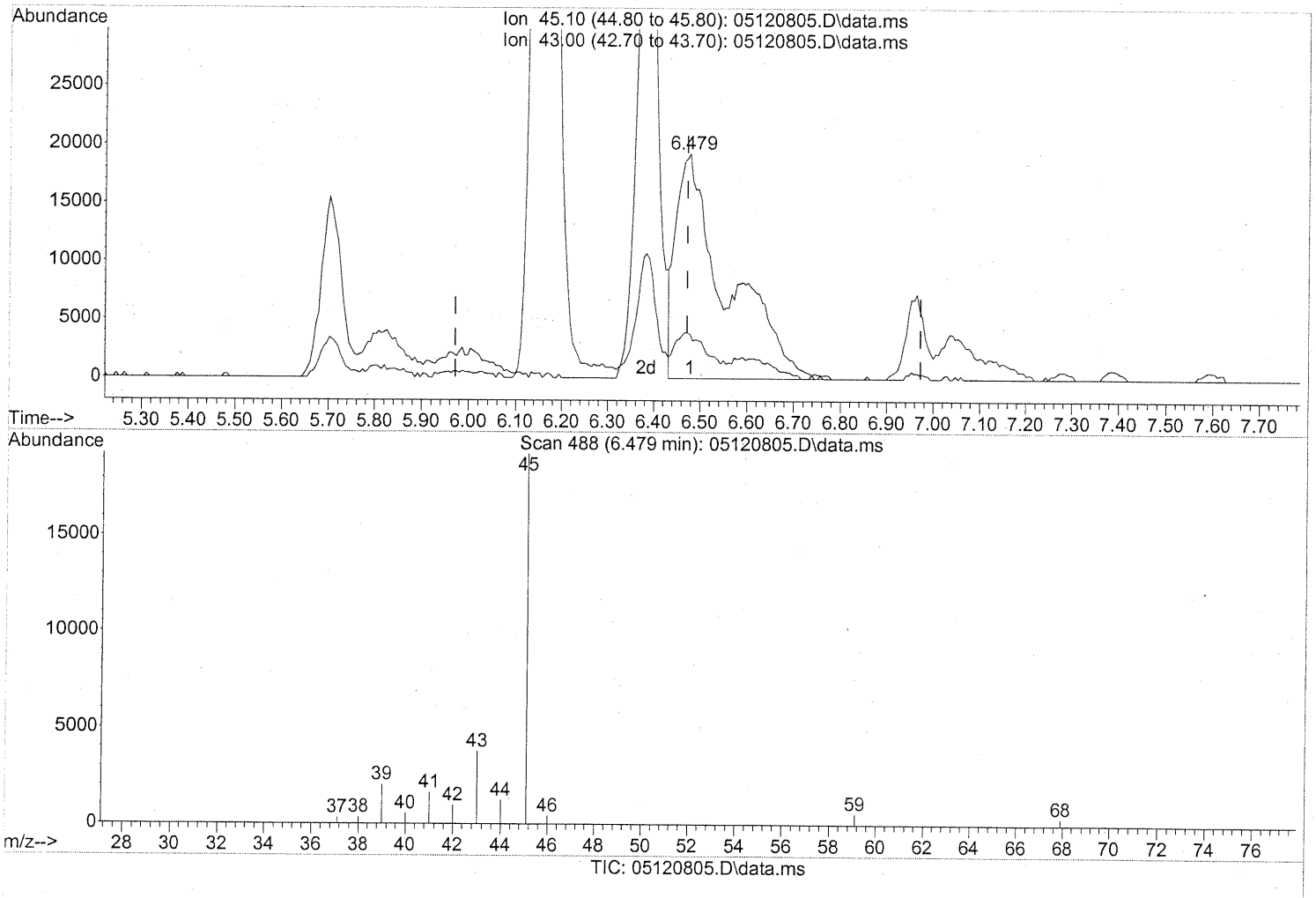
int. whole peaks
DH 5/13/08
Em 5/13/08

1031

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.479min (+0.006) 2.41ng

response 145075

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	14.21
0.00	0.00	0.00
0.00	0.00	0.00

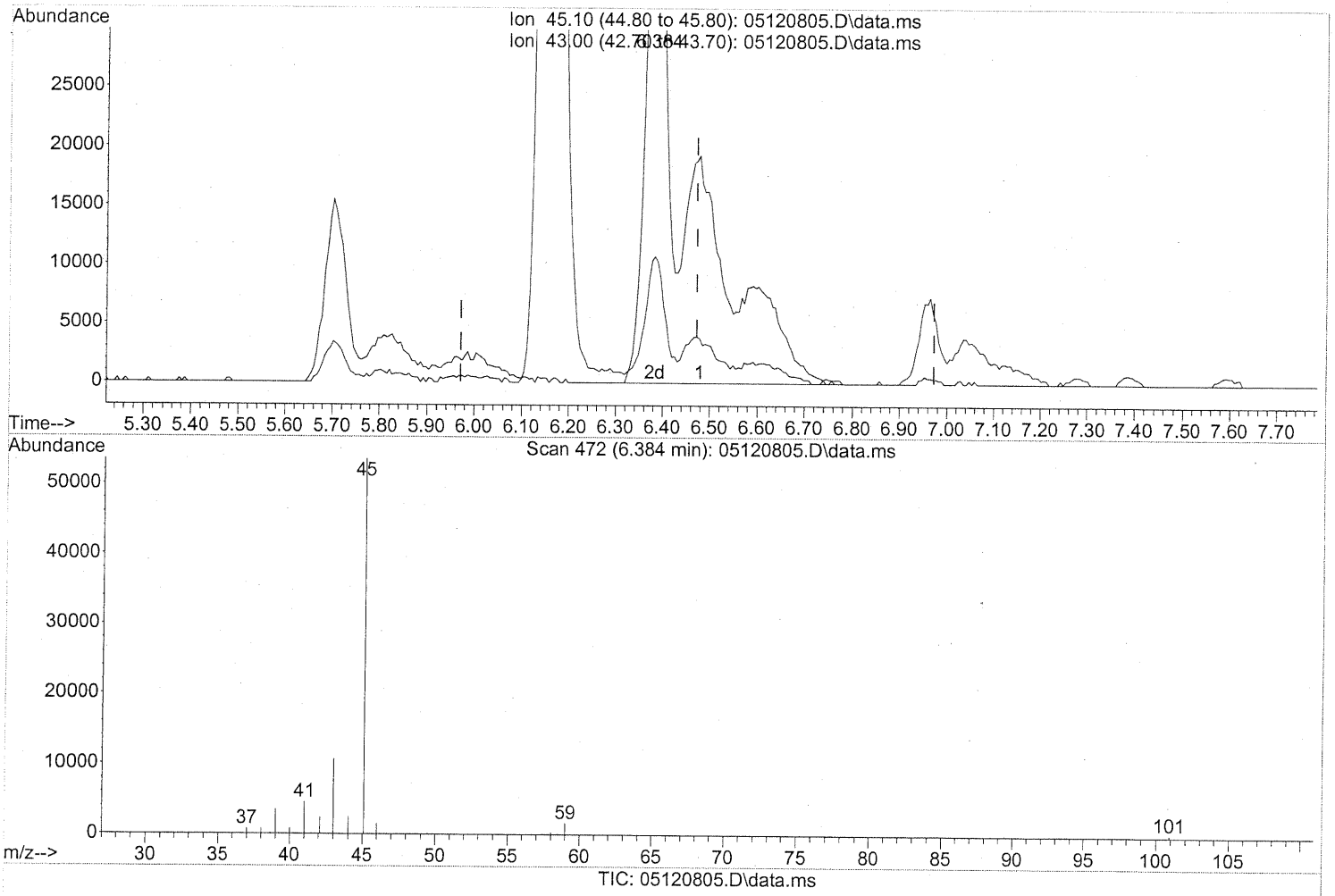
split peaks

1032

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.384min (-0.089) 4.96ng m

response 298706

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	6.90
0.00	0.00	0.00
0.00	0.00	0.00

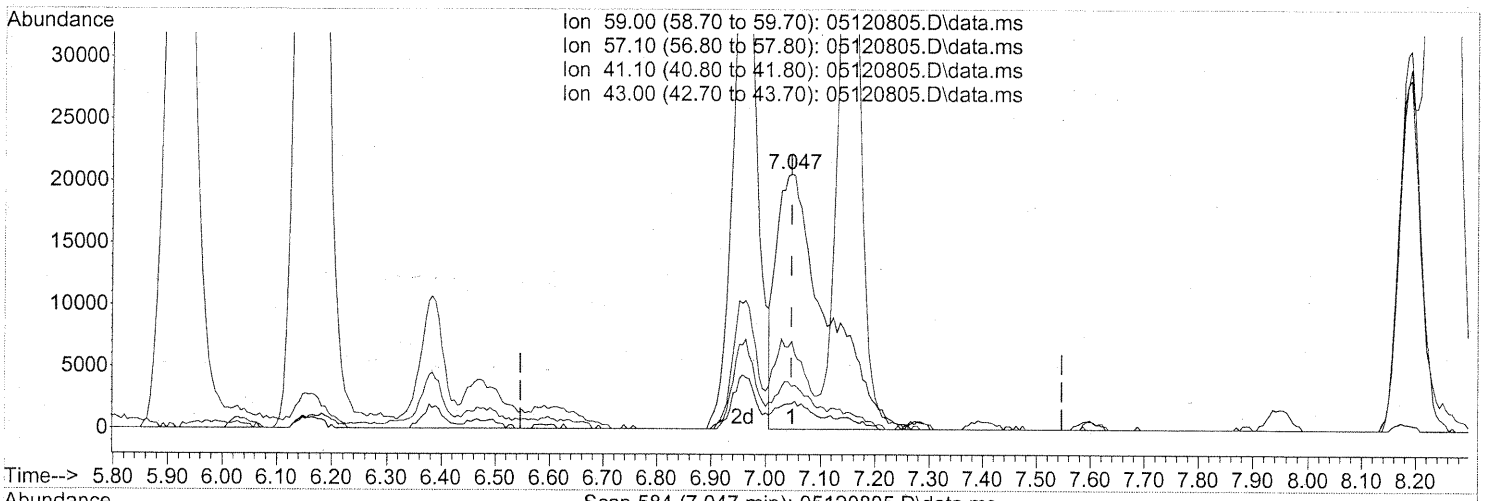
int. whole peaks
DH 5/13/08
Ean 5/13/08

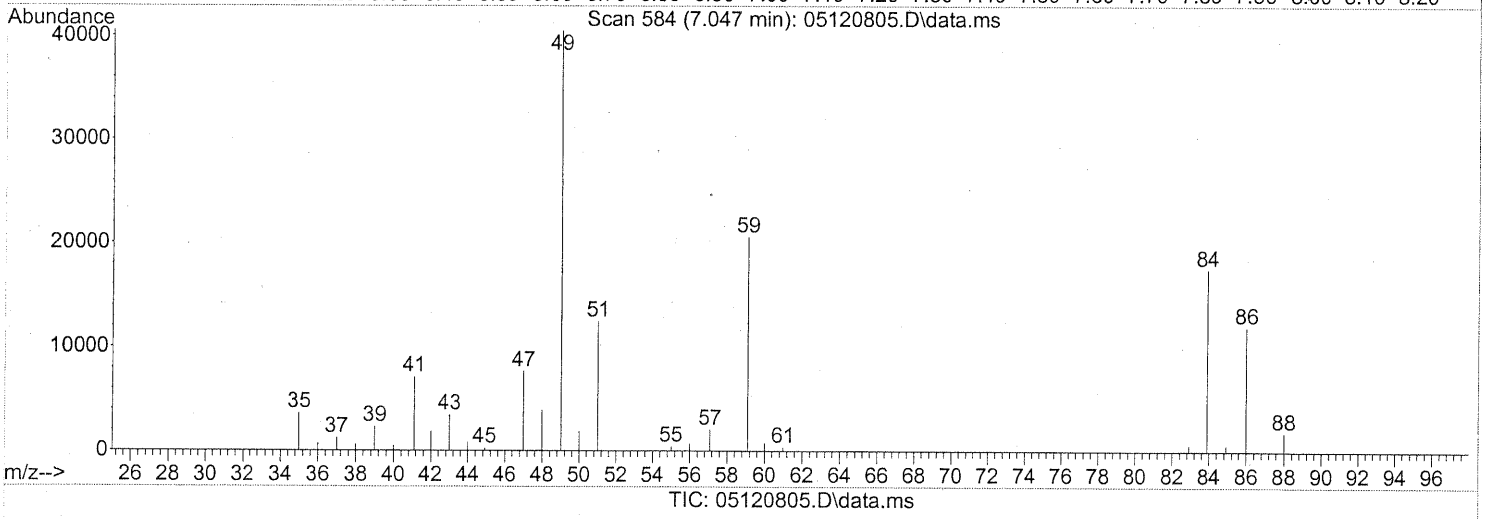
1033

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120805.D\data.ms

(18) tert-Butanol (T)

7.047min (0.000) 2.53ng

response 130559

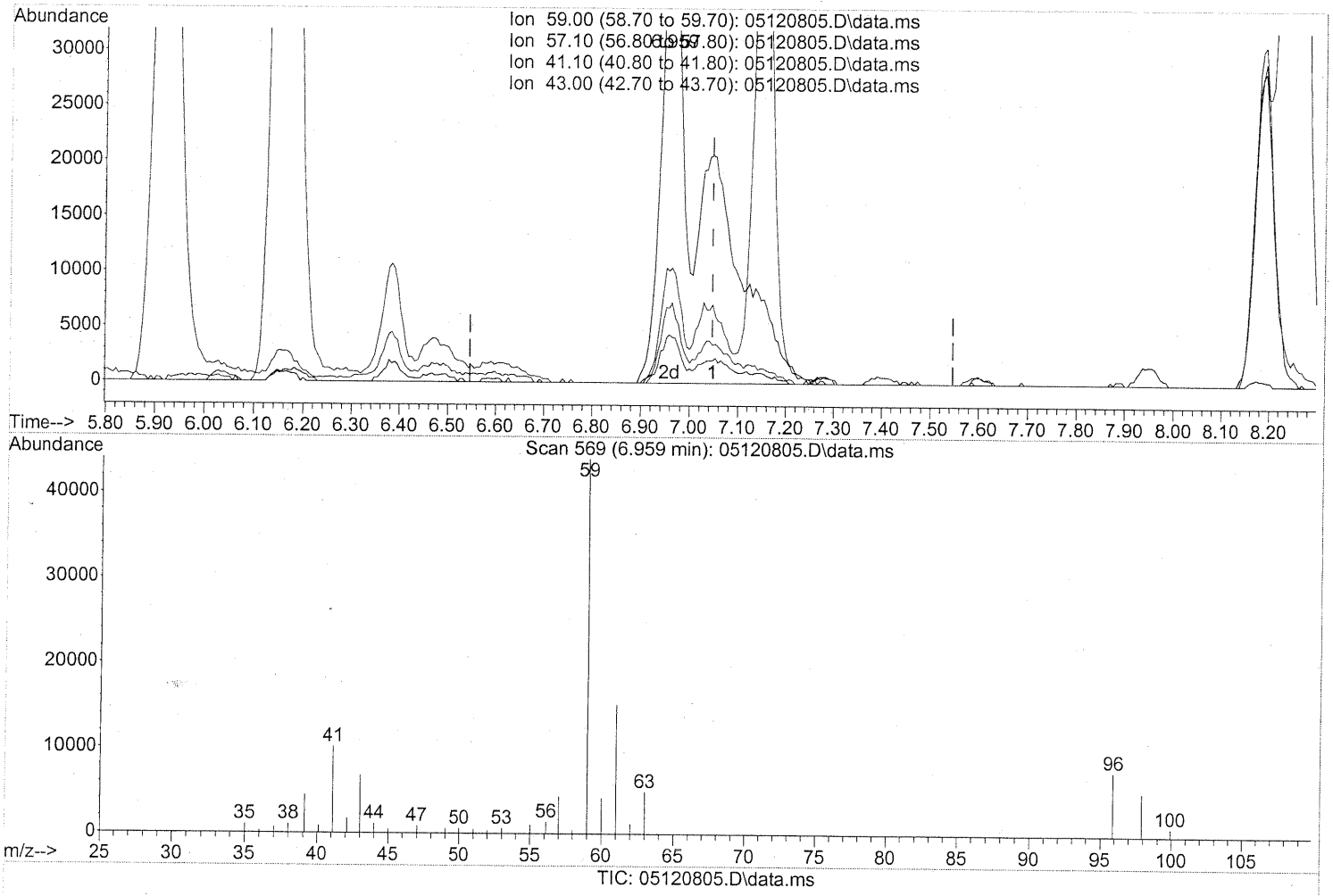
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	10.46
41.10	21.90	0.00#
43.00	17.20	0.00

split peaks

1034

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120805.D
Acq On : 12 May 2008 18:17
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:51:31 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



TIC: 05120805.D\data.ms

(18) tert-Butanol (T)

6.959min (-0.089) 5.07ng m

response 261098

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	5.23
41.10	21.90	0.00#
43.00	17.20	0.00

int. whole peaks

DA 5/13/08

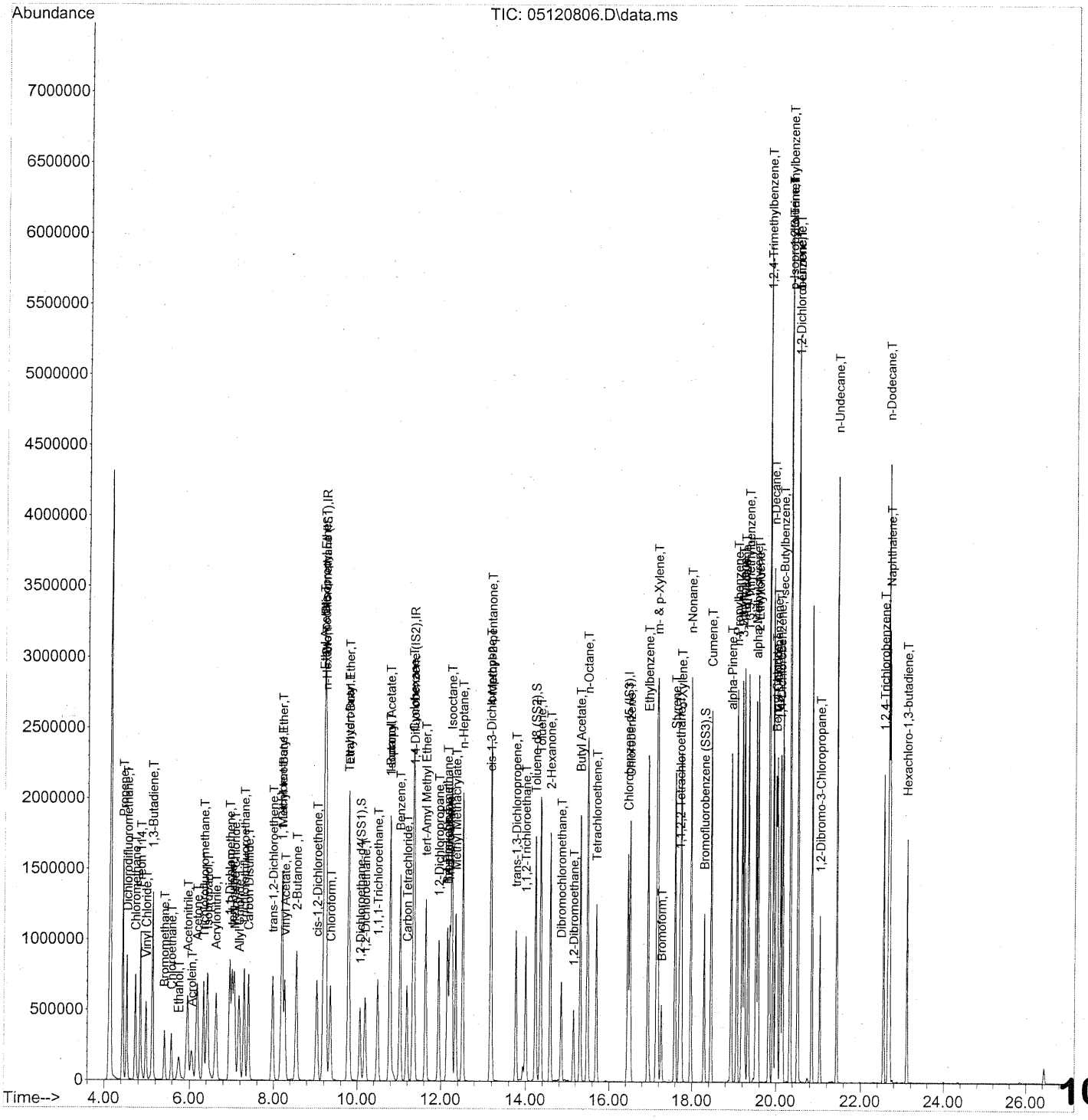
Em 5/13/08

1035

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:54:11 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:54:11 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	291392	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1248987	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	547223	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	509241	29.661	ng		-0.02
Spiked Amount 25.000			Recovery =	118.64%			
57) Toluene-d8 (SS2)	14.24	98	1338842	25.003	ng		-0.01
Spiked Amount 25.000			Recovery =	100.00%			
73) Bromofluorobenzene (SS3)	18.29	174	354294	17.747	ng		0.00
Spiked Amount 25.000			Recovery =	71.00%			
Target Compounds							Qvalue
2) Propene	4.43	42	695278	24.788	ng		96
3) Dichlorodifluoromethane	4.53	85	851776	24.947	ng		99
4) Chloromethane	4.73	50	1071284	25.312	ng		100
5) Freon 114	4.85	135	420876	21.989	ng		97
6) Vinyl Chloride	4.98	62	733097	26.687	ng		95
7) 1,3-Butadiene	5.13	54	736971	30.783	ng		94
8) Bromomethane	5.41	94	301186	24.780	ng		99
9) Chloroethane	5.58	64	346967	26.390	ng		97
10) Ethanol	5.75	45	432190m	22.016	ng		
11) Acetonitrile	5.95	41	1207453	21.578	ng		100
12) Acrolein	6.05	56	332078	22.122	ng		100
13) Acetone	6.18	58	473439	24.267	ng		96
14) Trichlorofluoromethane	6.34	101	728374	24.515	ng		100
15) Isopropanol	6.43	45	1766044	27.292	ng		99
16) Acrylonitrile	6.63	53	860234	24.333	ng		98
17) 1,1-Dichloroethene	6.95	96	384324	25.541	ng	#	78
18) tert-Butanol	7.01	59	1408437	25.452	ng		97
19) Methylene Chloride	7.06	84	381703	23.401	ng	#	34
20) Allyl Chloride	7.17	41	780710	26.370	ng		82
21) Trichlorotrifluoroethane	7.30	151	337453	22.346	ng		99
22) Carbon Disulfide	7.40	76	1409785	22.545	ng		100
23) trans-1,2-Dichloroethene	7.97	61	800111	27.311	ng		87
24) 1,1-Dichloroethane	8.19	63	914168	27.534	ng		95
25) Methyl tert-Butyl Ether	8.20	73	1245479	28.147	ng		80
26) Vinyl Acetate	8.27	86	97975	39.043	ng	#	1
27) 2-Butanone	8.55	72	277640	27.830	ng	#	11
28) cis-1,2-Dichloroethene	9.04	61	747038	27.764	ng		87
29) Diisopropyl Ether	9.20	87	328978	25.336	ng	#	1
30) Ethyl Acetate	9.19	61	239009	35.075	ng		84
31) n-Hexane	9.24	57	1117351	27.410	ng		9

DT 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:54:11 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.36	83	687802	31.203	ng		97
34) Tetrahydrofuran	9.78	72	277708	29.635	ng	#	43
35) Ethyl tert-Butyl Ether	9.80	87	476573	25.934	ng	#	65
36) 1,2-Dichloroethane	10.19	62	687399	28.129	ng		96
38) 1,1,1-Trichloroethane	10.50	97	643391	25.897	ng		89
39) Isopropyl Acetate	10.79	61	341606	27.724	ng	#	52
40) 1-Butanol	10.79	56	571227	24.797	ng		92
41) Benzene	11.02	78	1565791	25.376	ng		100
42) Carbon Tetrachloride	11.20	117	566543	27.100	ng		99
43) Cyclohexane	11.34	84	623037	24.806	ng	#	46
44) tert-Amyl Methyl Ether	11.64	73	1137687	26.549	ng	#	76
45) 1,2-Dichloropropane	11.95	63	516711	27.701	ng		97
46) Bromodichloromethane	12.16	83	540539	29.853	ng		94
47) Trichloroethene	12.21	130	465596	22.960	ng		100
48) 1,4-Dioxane	12.16	88	337736	28.417	ng	#	64
49) Isooctane	12.26	57	2615414	25.825	ng		99
50) Methyl Methacrylate	12.36	100	168390	24.600	ng		98
51) n-Heptane	12.52	71	438899	28.573	ng	#	57
52) cis-1,3-Dichloropropene	13.17	75	651879	27.454	ng		99
53) 4-Methyl-2-pentanone	13.19	58	601386	28.010	ng		82
54) trans-1,3-Dichloropropene	13.77	75	658213	32.213	ng		99
55) 1,1,2-Trichloroethane	14.00	97	392814	24.774	ng		96
58) Toluene	14.35	91	1724592	24.570	ng		99
59) 2-Hexanone	14.59	43	1747423	27.351	ng		94
60) Dibromochloromethane	14.85	129	490941	24.812	ng		100
61) 1,2-Dibromoethane	15.15	107	466528	24.442	ng		99
62) Butyl Acetate	15.31	43	1919680	29.260	ng		96
63) n-Octane	15.49	57	557623	26.369	ng		90
64) Tetrachloroethene	15.70	166	423016	20.774	ng		98
65) Chlorobenzene	16.50	112	1163418	23.058	ng		100
66) Ethylbenzene	16.94	91	1996582	25.148	ng		97
67) m- & p-Xylene	17.16	91	3138663	60.590	ng		95
68) Bromoform	17.26	173	328336	28.485	ng		99
69) Styrene	17.60	104	1255035	25.088	ng		98
70) o-Xylene	17.74	91	1589752	28.536	ng		96
71) n-Nonane	17.97	43	1533015	28.060	ng		90
72) 1,1,2,2-Tetrachloroethane	17.70	83	724174	31.686	ng		94
74) Cumene	18.45	105	2007408	24.626	ng		96
75) alpha-Pinene	18.93	93	990124	25.298	ng		98
76) n-Propylbenzene	19.07	91	2429699	25.167	ng		95
77) 3-Ethyltoluene	19.19	105	2049783	23.287	ng		97
78) 4-Ethyltoluene	19.24	105	2040835	24.711	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	1720052	24.077	ng		97

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:54:11 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration

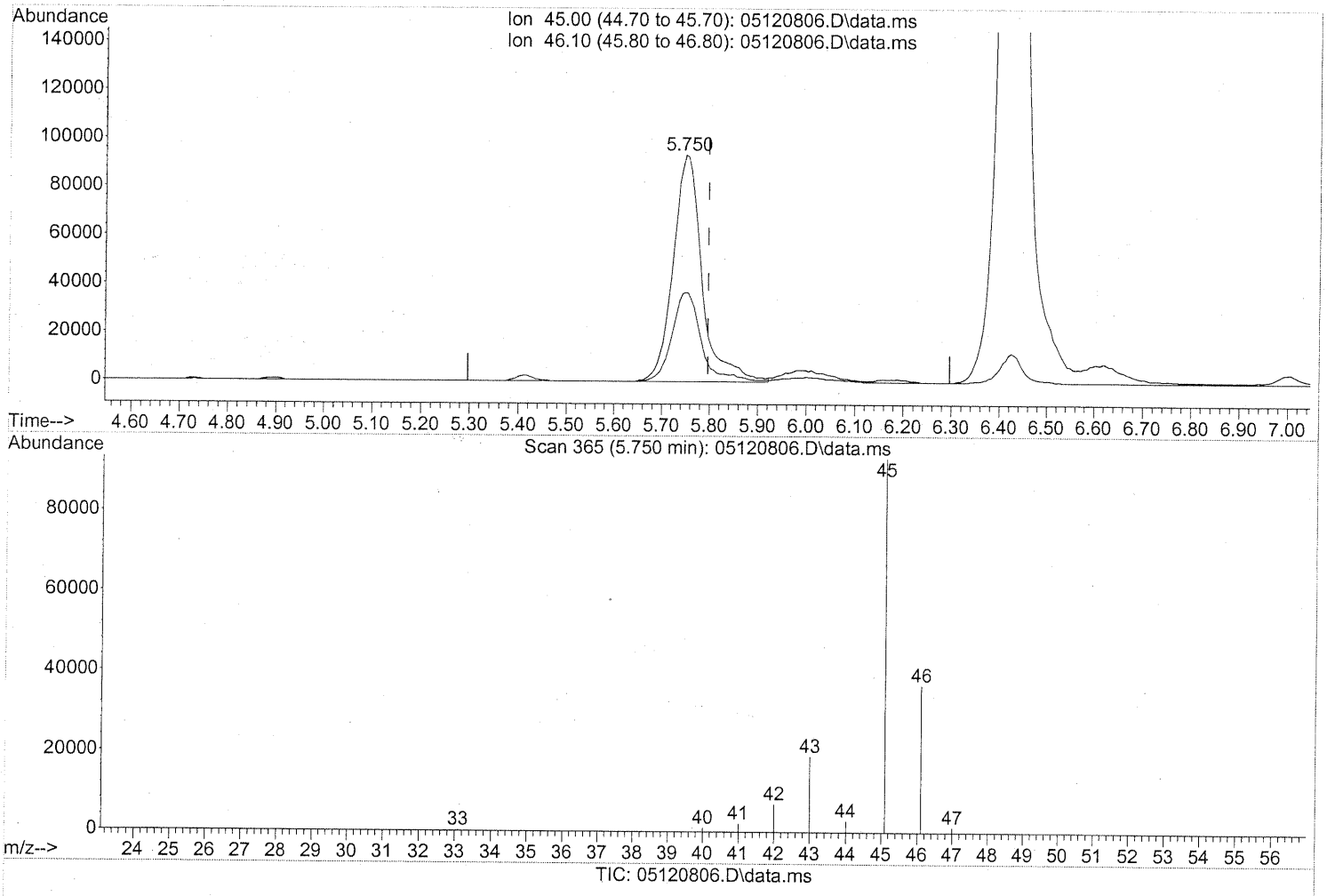
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	957244	23.670	ng		99
81) 2-Ethyltoluene	19.57	105	1984097	22.557	ng		95
82) 1,2,4-Trimethylbenzene	19.83	105	1853441	25.775	ng		94
83) n-Decane	19.93	57	1412285	26.738	ng		80
84) Benzyl Chloride	19.99	91	1544670	27.552	ng		94
85) 1,3-Dichlorobenzene	20.02	146	994406	21.408	ng		100
86) 1,4-Dichlorobenzene	20.11	146	1008629	22.640	ng		99
87) sec-Butylbenzene	20.16	105	2360096	24.773	ng		98
88) p-Isopropyltoluene	20.34	119	2296744	27.840	ng		96
89) 1,2,3-Trimethylbenzene	20.35	105	1848769	26.236	ng		90
90) 1,2-Dichlorobenzene	20.52	146	983506	23.028	ng		100
91) d-Limonene	20.52	68	698239	30.194	ng		98
92) 1,2-Dibromo-3-Chloropr...	21.04	157	317591	23.496	ng	#	88
93) n-Undecane	21.43	57	1556577	28.200	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	182377	23.449	ng	#	86
95) Naphthalene	22.69	128	2584825	23.431	ng		99
96) n-Dodecane	22.66	57	1557137	30.121	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	262742	21.157	ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:53:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.750min (-0.047) 20.08ng

response 394190

split peaks

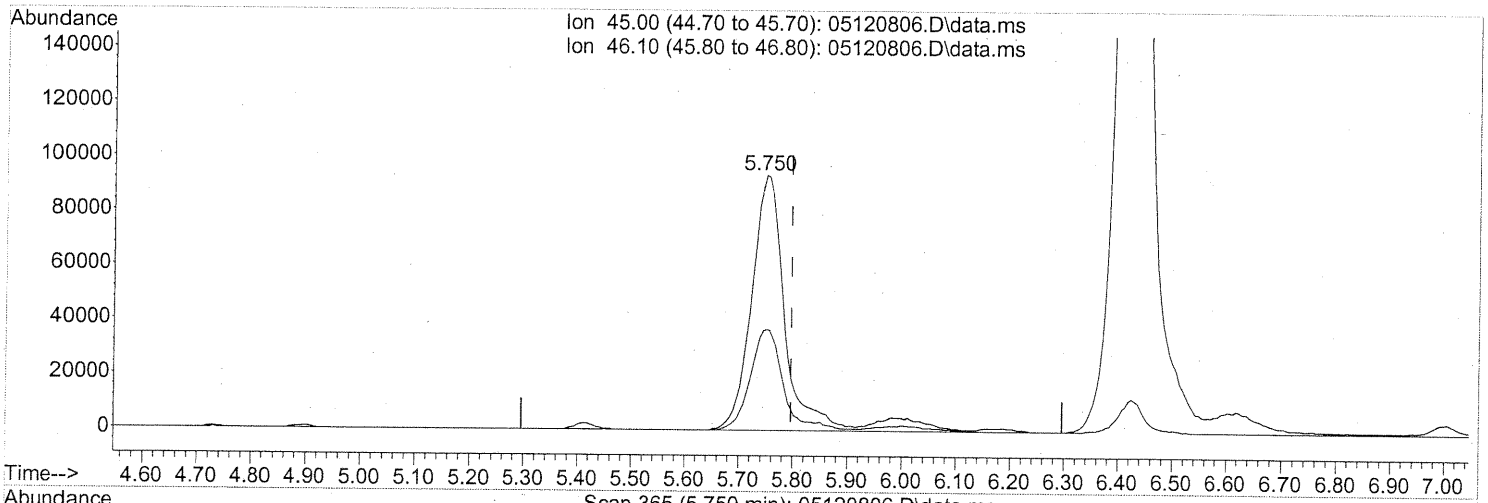
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.60
0.00	0.00	0.00
0.00	0.00	0.00

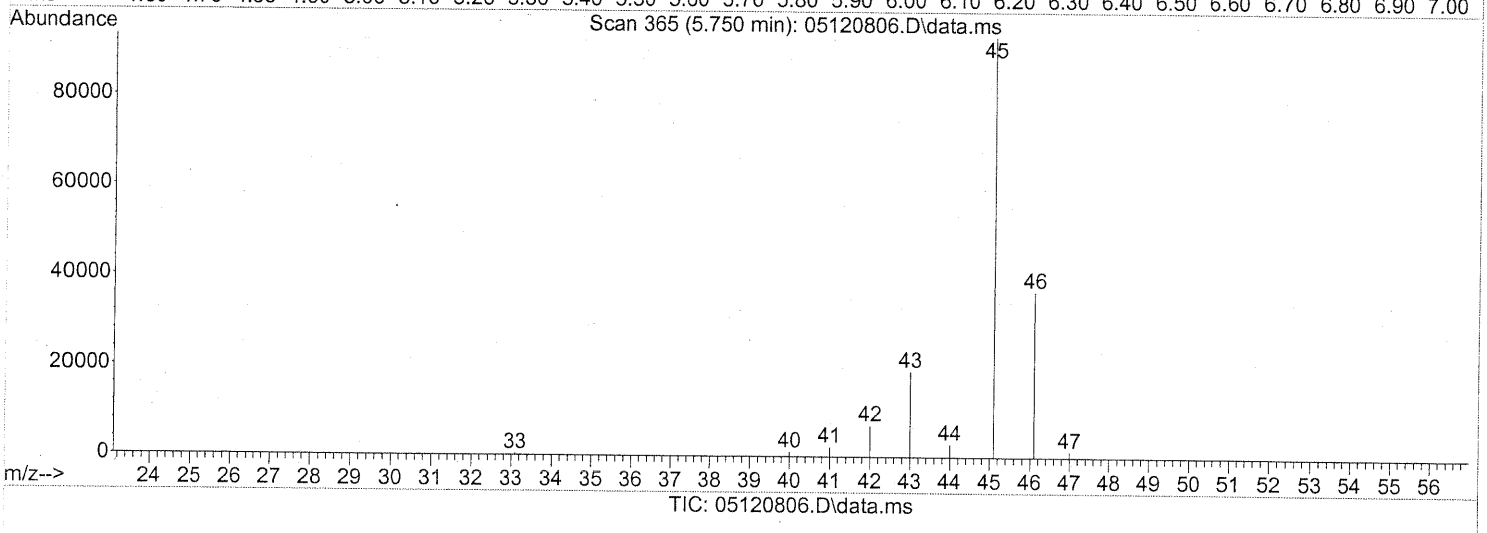
1040

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120806.D
Acq On : 12 May 2008 18:55
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 19:53:39 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 06 17:02:30 2008
Response via : Initial Calibration





TIC: 05120806.D\data.ms

(10) Ethanol (T)

5.750min (-0.047) 22.02ng m

response 432190

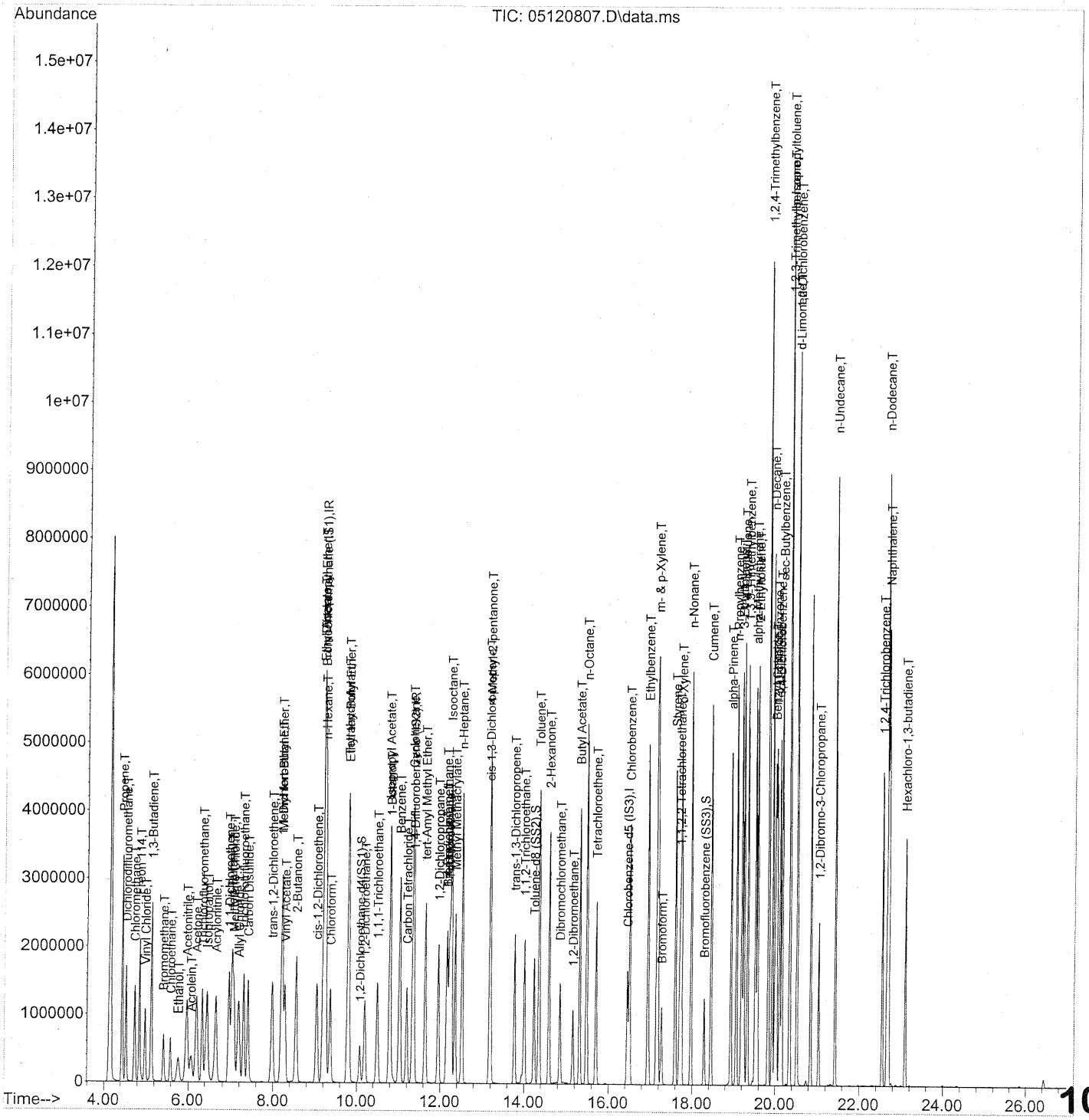
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	36.12
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
JOA 5/13/08
Tom 5/13/08

1041

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:44:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:44:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	321015	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	11.37	114	1380197	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	16.45	82	592404	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.08	65	543109	24.746	ng		0.01
Spiked Amount 25.000			Recovery =	99.00%			
57) Toluene-d8 (SS2)	14.24	98	1448626	24.838	ng		0.00
Spiked Amount 25.000			Recovery =	99.36%			
73) Bromofluorobenzene (SS3)	18.29	174	387860	22.845	ng		0.00
Spiked Amount 25.000			Recovery =	91.40%			
Target Compounds							Qvalue
2) Propene	4.44	42	1592427	51.114	ng		96
3) Dichlorodifluoromethane	4.53	85	1776540	46.786	ng		99
4) Chloromethane	4.74	50	2154689	46.409	ng		100
5) Freon 114	4.85	135	931219	49.517	ng		97
6) Vinyl Chloride	4.99	62	1531104	48.127	ng		95
7) 1,3-Butadiene	5.13	54	1584051	53.875	ng		92
8) Bromomethane	5.42	94	640068	47.923	ng		99
9) Chloroethane	5.60	64	740582	51.535	ng		96
10) Ethanol	5.77	45	933140m	42.949	ng		
11) Acetonitrile	5.96	41	2578256	41.392	ng		100
12) Acrolein	6.06	56	696441	40.676	ng		98
13) Acetone	6.19	58	954652	36.683	ng		95
14) Trichlorofluoromethane	6.34	101	1565158	49.388	ng		99
15) Isopropanol	6.45	45	3244165m	44.569	ng		
16) Acrylonitrile	6.64	53	1848683	48.856	ng		98
17) 1,1-Dichloroethene	6.95	96	829929	53.265	ng	#	82
18) tert-Butanol	7.02	59	2998390	48.450	ng		96
19) Methylene Chloride	7.07	84	823299	49.014	ng	#	36
20) Allyl Chloride	7.18	41	1719603	49.859	ng		82
21) Trichlorotrifluoroethane	7.30	151	736603	53.317	ng		100
22) Carbon Disulfide	7.41	76	3006479	44.504	ng		100
23) trans-1,2-Dichloroethene	7.98	61	1701593	52.176	ng		87
24) 1,1-Dichloroethane	8.20	63	1930438	52.252	ng		95
25) Methyl tert-Butyl Ether	8.21	73	2653655	53.039	ng		79
26) Vinyl Acetate	8.29	86	208367	50.781	ng	#	1
27) 2-Butanone	8.56	72	597766	55.022	ng	#	15
28) cis-1,2-Dichloroethene	9.05	61	1588227	52.834	ng		89
29) Diisopropyl Ether	9.21	87	703292	50.629	ng	#	1
30) Ethyl Acetate	9.20	61	508806	67.631	ng		85
31) n-Hexane	9.25	57	2415916	53.697	ng		91

5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:44:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.37	83	1451904	60.814	ng		96
34) Tetrahydrofuran	9.79	72	596903	59.396	ng	#	44
35) Ethyl tert-Butyl Ether	9.80	87	1035569	52.258	ng	#	66
36) 1,2-Dichloroethane	10.20	62	1444653	51.155	ng		96
38) 1,1,1-Trichloroethane	10.50	97	1372449	51.302	ng		91
39) Isopropyl Acetate	10.79	61	740779	53.276	ng	#	56
40) 1-Butanol	10.81	56	1248293	48.153	ng		94
41) Benzene	11.03	78	3385674	50.212	ng		100
42) Carbon Tetrachloride	11.20	117	1219483	58.791	ng		99
43) Cyclohexane	11.35	84	1334191	49.861	ng	#	47
44) tert-Amyl Methyl Ether	11.65	73	2431993	51.454	ng		76
45) 1,2-Dichloropropane	11.96	63	1102663	53.111	ng		97
46) Bromodichloromethane	12.16	83	1135880	56.707	ng		93
47) Trichloroethene	12.21	130	1027784	53.679	ng		100
48) 1,4-Dioxane	12.16	88	722431	56.823	ng	#	63
49) Isooctane	12.26	57	5729430	51.642	ng		97
50) Methyl Methacrylate	12.36	100	368431	57.804	ng		95
51) n-Heptane	12.52	71	941617	55.473	ng	#	57
52) cis-1,3-Dichloropropene	13.18	75	1387276	52.029	ng		100
53) 4-Methyl-2-pentanone	13.20	58	1299660	53.641	ng		82
54) trans-1,3-Dichloropropene	13.78	75	1397494	59.126	ng		99
55) 1,1,2-Trichloroethane	14.01	97	847114	51.054	ng		96
58) Toluene	14.36	91	3758371	52.745	ng		99
59) 2-Hexanone	14.60	43	3711529	51.035	ng		95
60) Dibromochloromethane	14.86	129	1065655	55.857	ng		99
61) 1,2-Dibromoethane	15.16	107	1008887	54.135	ng		99
62) Butyl Acetate	15.32	43	4085896	55.190	ng		95
63) n-Octane	15.49	57	1203286	53.689	ng		91
64) Tetrachloroethene	15.70	166	939424	51.233	ng		98
65) Chlorobenzene	16.51	112	2543641	53.148	ng		100
66) Ethylbenzene	16.95	91	4340898	53.425	ng		96
67) m- & p-Xylene	17.17	91	6843346	129.040	ng		94
68) Bromoform	17.27	173	723530	68.913	ng		100
69) Styrene	17.60	104	2754559	55.089	ng		96
70) o-Xylene	17.74	91	3432889	60.558	ng		95
71) n-Nonane	17.97	43	3275786	54.421	ng		90
72) 1,1,2,2-Tetrachloroethane	17.71	83	1543697	62.782	ng		94
74) Cumene	18.45	105	4363437	54.555	ng		96
75) alpha-Pinene	18.94	93	2151168	55.466	ng		96
76) n-Propylbenzene	19.07	91	5255861	53.061	ng		95
77) 3-Ethyltoluene	19.20	105	4552651	52.545	ng		97
78) 4-Ethyltoluene	19.25	105	4370249	55.455	ng		96
79) 1,3,5-Trimethylbenzene	19.34	105	3742334	53.776	ng		9

1044

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:44:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	2089286	54.729	ng		99
81) 2-Ethyltoluene	19.57	105	4325793	50.300	ng		95
82) 1,2,4-Trimethylbenzene	19.84	105	4049476	56.958	ng		93
83) n-Decane	19.94	57	3049147	55.344	ng		79
84) Benzyl Chloride	20.00	91	3327907	56.420	ng		94
85) 1,3-Dichlorobenzene	20.03	146	2206352	52.074	ng		100
86) 1,4-Dichlorobenzene	20.11	146	2215194	54.664	ng		99
87) sec-Butylbenzene	20.16	105	5135963	55.131	ng		97
88) p-Isopropyltoluene	20.34	119	5022994	63.459	ng		95
89) 1,2,3-Trimethylbenzene	20.35	105	4026681	58.084	ng		90
90) 1,2-Dichlorobenzene	20.52	146	2132395	54.775	ng		100
91) d-Limonene	20.52	68	1475923	59.202	ng		97
92) 1,2-Dibromo-3-Chloropr...	21.04	157	693764	55.365	ng		92
93) n-Undecane	21.43	57	3375881	58.558	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	399779	57.881	ng	#	84
95) Naphthalene	22.70	128	5639820	54.873	ng		99
96) n-Dodecane	22.66	57	3397713	61.342	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	579385	55.123	ng		99

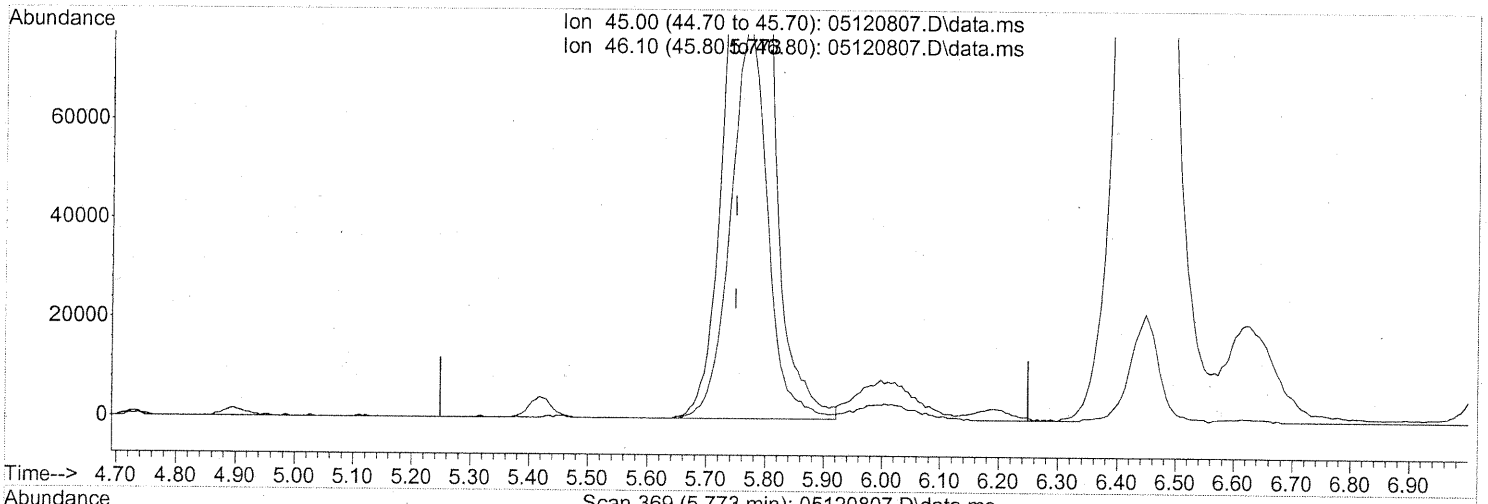
(#) = qualifier out of range (m) = manual integration (+) = signals summed

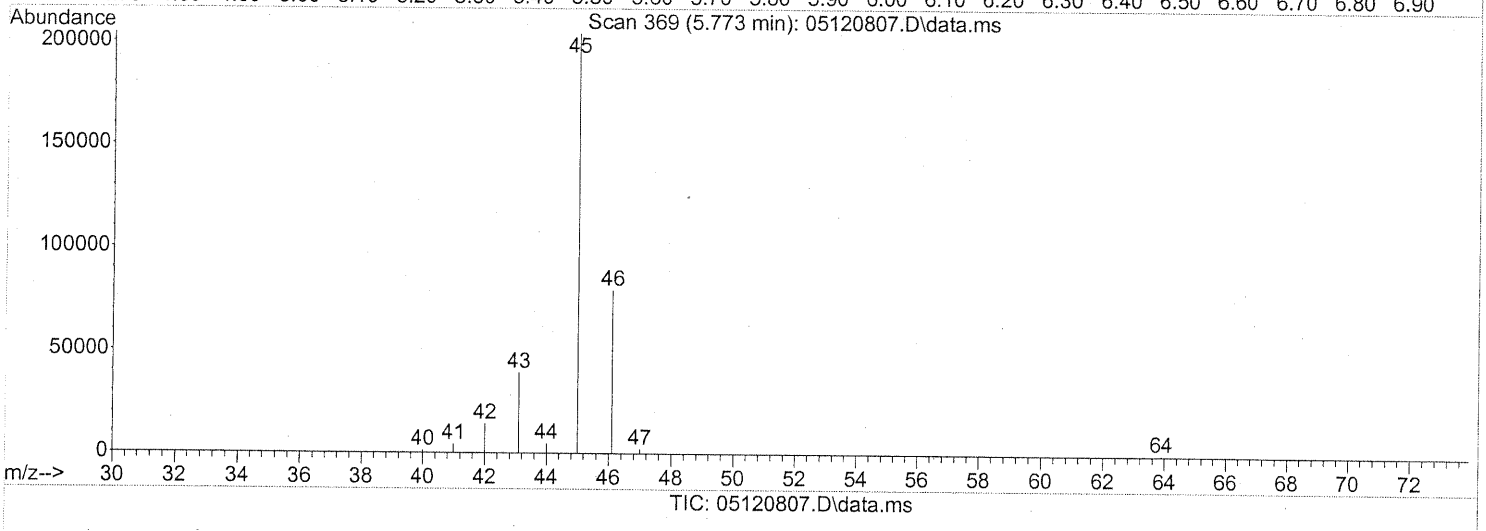
1045

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:43:03 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





(10) Ethanol (T)

5.773min (+0.024) 40.42ng

response 878176

split peaks

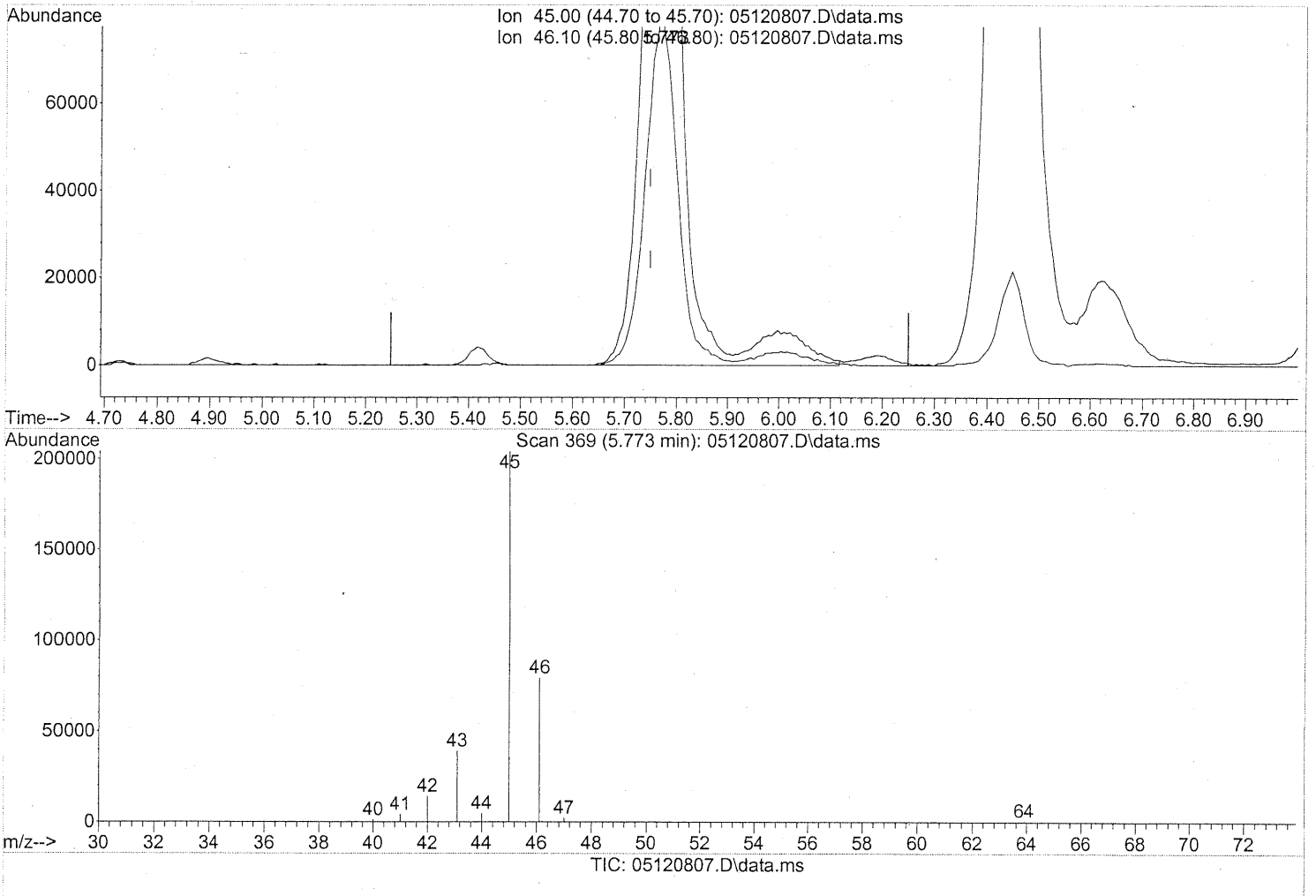
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.29
0.00	0.00	0.00
0.00	0.00	0.00

1046

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:43:03 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.773min (+0.024) 42.95ng m

response 933140

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	36.98
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

JDT 5/13/08

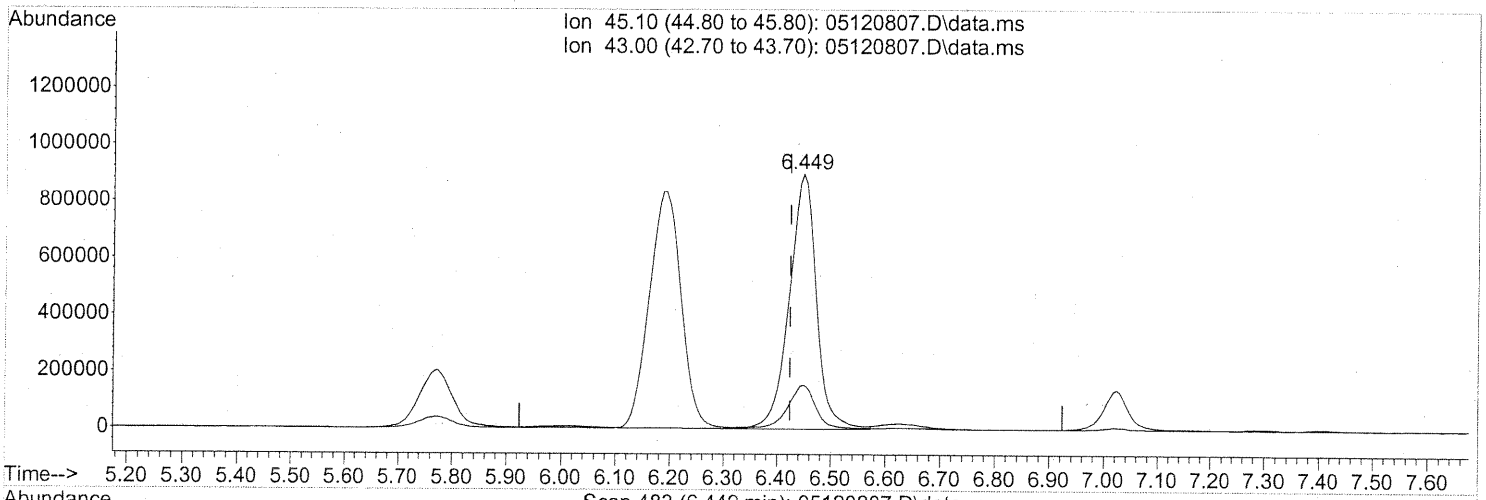
Tom 5/13/08

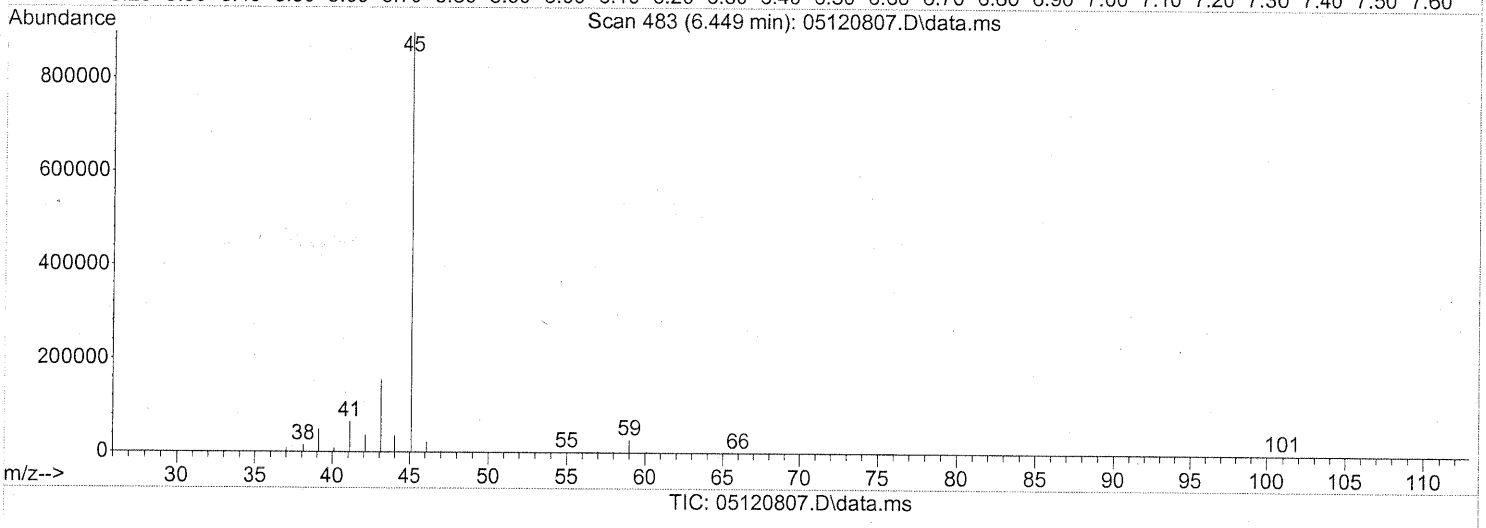
1047

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:43:03 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





TIC: 05120807.D\data.ms

(15) Isopropanol (T)

6.449min (+0.024) 43.15ng

response 3140681

split peaks

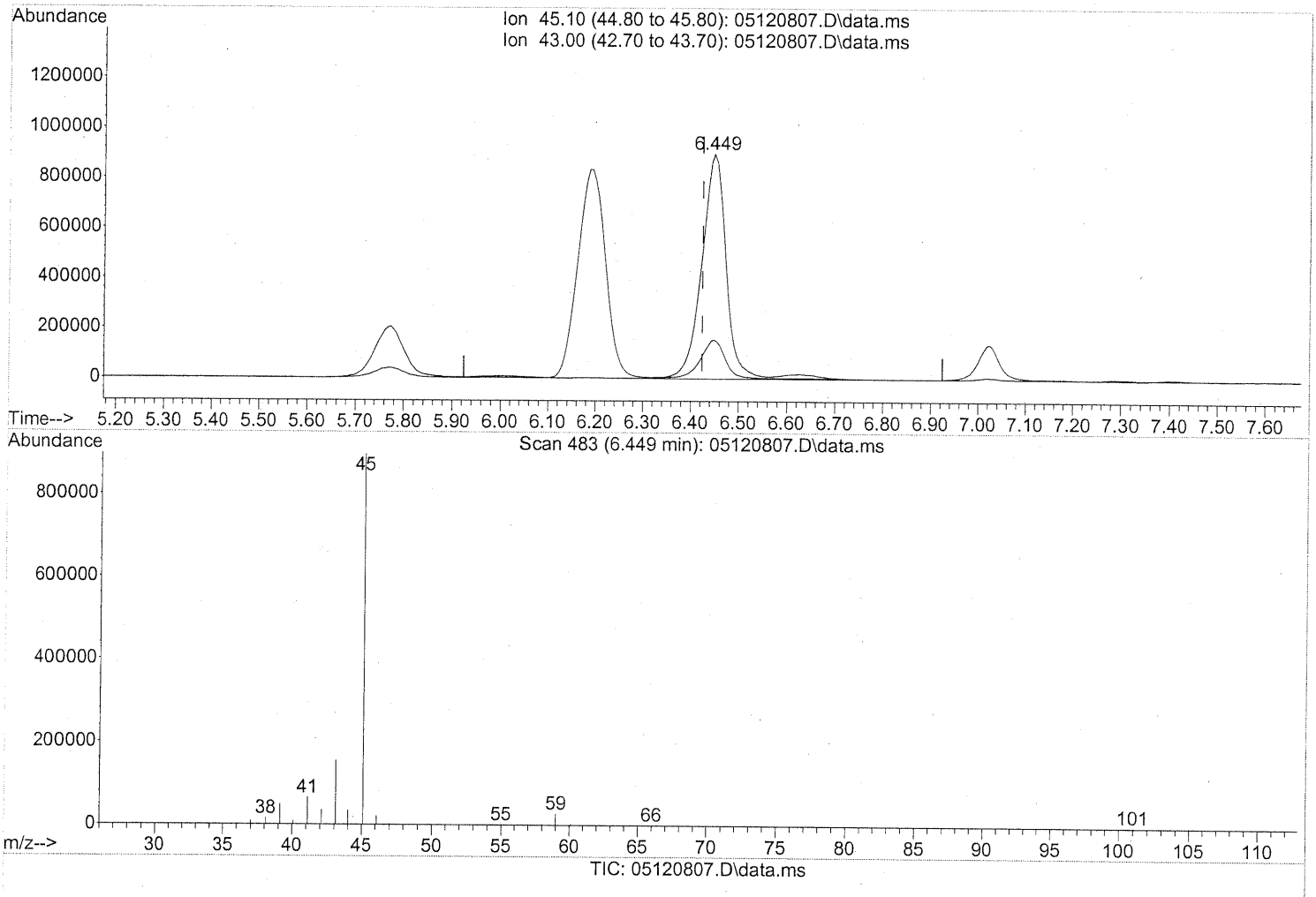
Ion	Exp%	Act%
45.10	100	100
43.00	19.40	18.28
0.00	0.00	0.00
0.00	0.00	0.00

1048

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120807.D
Acq On : 12 May 2008 19:34
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:43:03 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration



TIC: 05120807.D\data.ms

(15) Isopropanol (T)

6.449min (+0.024) 44.57ng m

response 3244165

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	17.70
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

MA 5/13/08

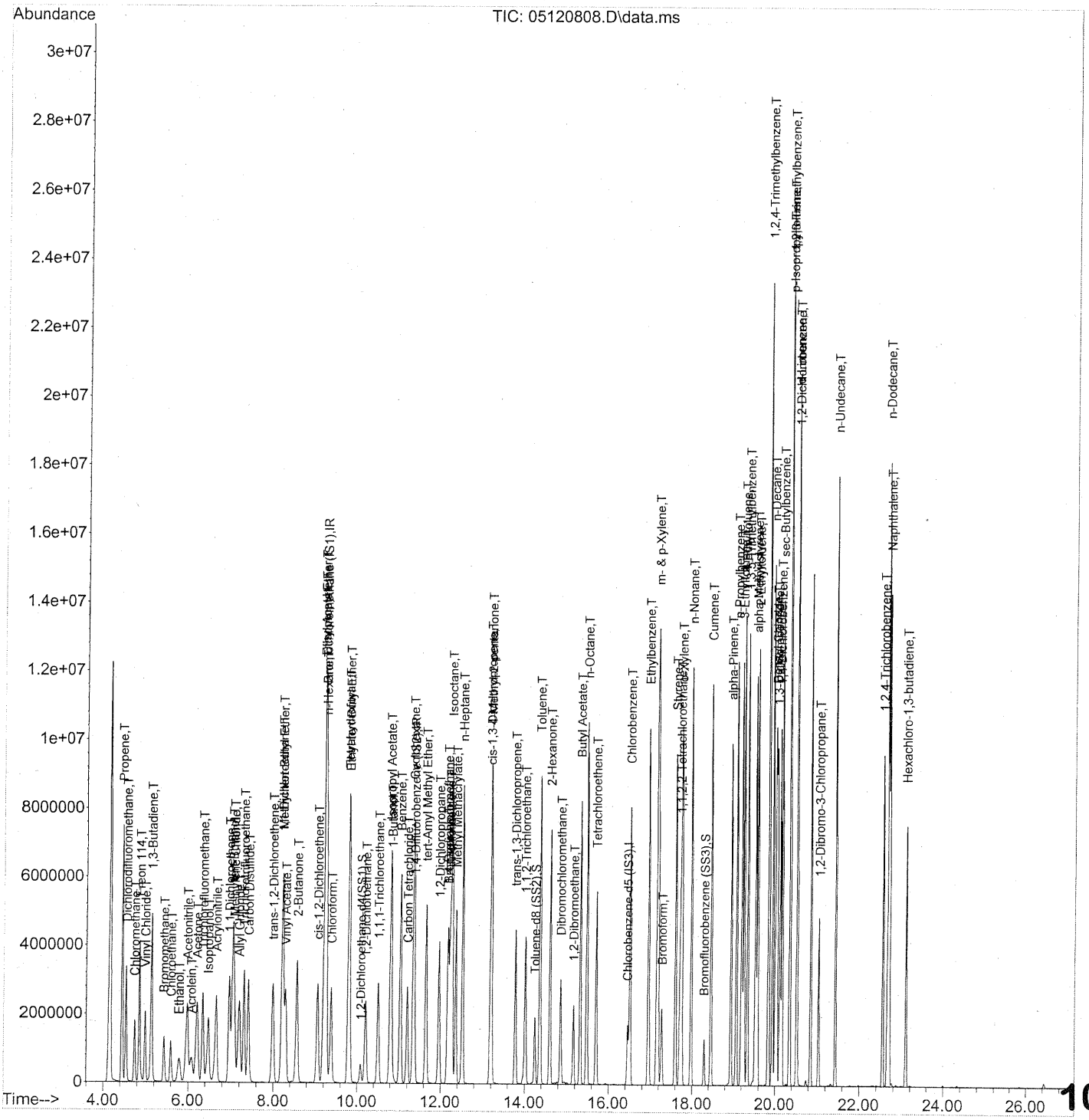
Em 5/13/08

1049

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:46:09 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:46:09 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.25	130	341457	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	11.38	114	1474367	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	16.46	82	626994	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.09	65	560643	24.016	ng		0.02
Spiked Amount 25.000			Recovery =	96.08%			
57) Toluene-d8 (SS2)	14.25	98	1534528	24.859	ng		0.01
Spiked Amount 25.000			Recovery =	99.44%			
73) Bromofluorobenzene (SS3)	18.29	174	419141	23.326	ng		0.00
Spiked Amount 25.000			Recovery =	93.32%			
Target Compounds							Qvalue
2) Propene	4.45	42	3810462	114.986	ng		95
3) Dichlorodifluoromethane	4.55	85	3649099	90.347	ng		99
4) Chloromethane	4.74	50	2873884	58.193	ng		100
5) Freon 114	4.86	135	1948767	97.421	ng		97
6) Vinyl Chloride	4.99	62	3106582	91.803	ng		95
7) 1,3-Butadiene	5.14	54	3264471	104.381	ng		90
8) Bromomethane	5.43	94	1323880	93.187	ng		99
9) Chloroethane	5.60	64	1473466	96.396	ng		96
10) Ethanol	5.79	45	1988471m	86.044	ng		
11) Acetonitrile	5.98	41	5467206	82.516	ng		99
12) Acrolein	6.08	56	1460396	80.188	ng		97
13) Acetone	6.21	58	1955342	70.637	ng		92
14) Trichlorofluoromethane	6.35	101	3310237	98.199	ng		99
15) Isopropanol	6.47	45	4970817m	64.202	ng		
16) Acrylonitrile	6.66	53	3885559	96.537	ng		98
17) 1,1-Dichloroethene	6.96	96	1769289	106.756	ng	#	83
18) tert-Butanol	7.05	59	6366599	96.717	ng		96
19) Methylene Chloride	7.08	84	1739024	97.332	ng	#	34
20) Allyl Chloride	7.20	41	3799795	103.578	ng		82
21) Trichlorotrifluoroethane	7.31	151	1604087	109.156	ng		98
22) Carbon Disulfide	7.41	76	6401191	89.082	ng		100
23) trans-1,2-Dichloroethene	7.99	61	3580521	103.217	ng		88
24) 1,1-Dichloroethane	8.21	63	3993791	101.630	ng		94
25) Methyl tert-Butyl Ether	8.22	73	5547604	104.243	ng		77
26) Vinyl Acetate	8.29	86	445721	102.123	ng	#	1
27) 2-Butanone	8.58	72	1252064	108.348	ng	#	17
28) cis-1,2-Dichloroethene	9.06	61	3323953	103.955	ng		89
29) Diisopropyl Ether	9.22	87	1452200	98.283	ng	#	1
30) Ethyl Acetate	9.22	61	1064742	133.053	ng		84
31) n-Hexane	9.26	57	5165118	107.930	ng		9[illegible]

1051

JDH 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:46:09 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.38	83	3000982	118.173	ng		96
34) Tetrahydrofuran	9.80	72	1220345	114.162	ng	#	41
35) Ethyl tert-Butyl Ether	9.81	87	2160859	102.515	ng	#	63
36) 1,2-Dichloroethane	10.21	62	2974350	99.016	ng		96
38) 1,1,1-Trichloroethane	10.51	97	2857691	99.997	ng		91
39) Isopropyl Acetate	10.80	61	1551331	104.443	ng	#	56
40) 1-Butanol	10.83	56	2685947	96.993	ng		98
41) Benzene	11.04	78	7168607	99.524	ng		99
42) Carbon Tetrachloride	11.21	117	2556890	115.394	ng		99
43) Cyclohexane	11.36	84	2809116	98.276	ng	#	47
44) tert-Amyl Methyl Ether	11.65	73	5121899	101.444	ng		77
45) 1,2-Dichloropropane	11.97	63	2321006	104.654	ng		97
46) Bromodichloromethane	12.17	83	2344283	109.559	ng		93
47) Trichloroethene	12.23	130	2202212	107.670	ng		100
48) 1,4-Dioxane	12.17	88	1533279	112.899	ng	#	62
49) Isooctane	12.27	57	12248329	103.349	ng		95
50) Methyl Methacrylate	12.37	100	786463	115.509	ng		91
51) n-Heptane	12.53	71	1953319	107.725	ng	#	53
52) cis-1,3-Dichloropropene	13.19	75	2882575	101.205	ng		100
53) 4-Methyl-2-pentanone	13.21	58	2755779	106.475	ng		81
54) trans-1,3-Dichloropropene	13.78	75	2927991	115.967	ng		98
55) 1,1,2-Trichloroethane	14.02	97	1803758	101.766	ng		95
58) Toluene	14.37	91	8073536	107.053	ng		99
59) 2-Hexanone	14.61	43	7784477	101.135	ng		96
60) Dibromochloromethane	14.86	129	2300231	113.917	ng		100
61) 1,2-Dibromoethane	15.17	107	2148027	108.901	ng		99
62) Butyl Acetate	15.33	43	8628640	110.122	ng		95
63) n-Octane	15.50	57	2557999	107.837	ng		91
64) Tetrachloroethene	15.71	166	2071246	106.727	ng		99
65) Chlorobenzene	16.52	112	5520718	108.988	ng		99
66) Ethylbenzene	16.96	91	9373842	109.003	ng		96
67) m- & p-Xylene	17.18	91	14829123	264.195	ng		95
68) Bromoform	17.28	173	1584323	142.575	ng		100
69) Styrene	17.61	104	6019293	113.740	ng		95
70) o-Xylene	17.75	91	7410409	123.513	ng		95
71) n-Nonane	17.98	43	6830538	107.216	ng		92
72) 1,1,2,2-Tetrachloroethane	17.72	83	3279947	126.036	ng		94
74) Cumene	18.46	105	9537403	112.665	ng		97
75) alpha-Pinene	18.94	93	4647718	113.226	ng		95
76) n-Propylbenzene	19.08	91	11353348	108.296	ng		95
77) 3-Ethyltoluene	19.20	105	9955524	108.564	ng		97
78) 4-Ethyltoluene	19.25	105	9649372	115.689	ng		97
79) 1,3,5-Trimethylbenzene	19.34	105	8250332	112.015	ng		9

1052

5/13/08

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

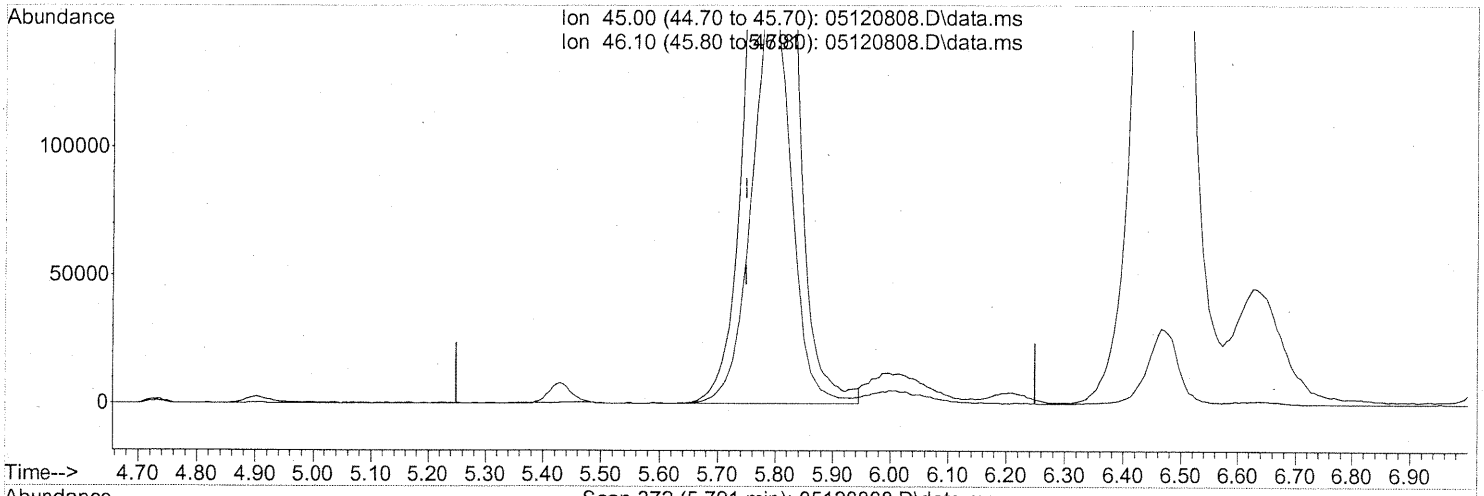
Quant Time: May 12 20:46:09 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration

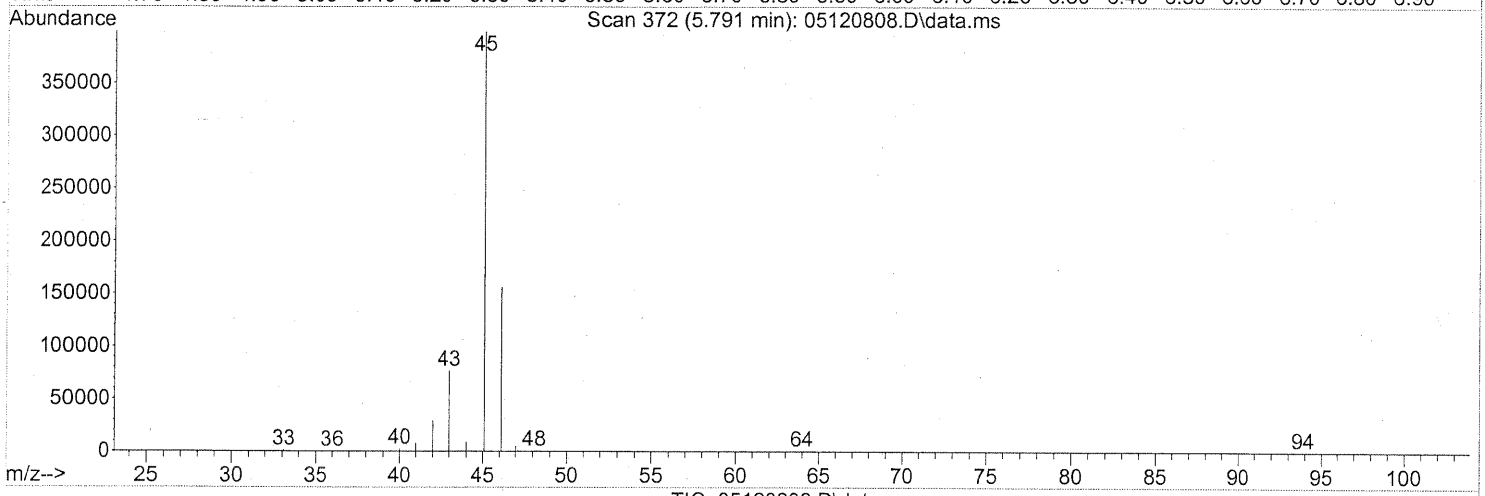
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.53	118	4600600	113.865	ng		99
81) 2-Ethyltoluene	19.58	105	9463228	103.968	ng		95
82) 1,2,4-Trimethylbenzene	19.85	105	8654690	115.016	ng		94
83) n-Decane	19.94	57	6564253	112.573	ng		78
84) Benzyl Chloride	20.01	91	7235809	115.904	ng		93
85) 1,3-Dichlorobenzene	20.04	146	4834605	107.810	ng		100
86) 1,4-Dichlorobenzene	20.11	146	4907451	114.419	ng		99
87) sec-Butylbenzene	20.17	105	11256761	114.168	ng		97
88) p-Isopropyltoluene	20.36	119	10647178	127.093	ng		95
89) 1,2,3-Trimethylbenzene	20.36	105	8625379	117.556	ng		91
90) 1,2-Dichlorobenzene	20.53	146	4555576	110.563	ng		99
91) d-Limonene	20.52	68	3054873	115.776	ng		96
92) 1,2-Dibromo-3-Chloropr...	21.05	157	1511955	114.003	ng		94
93) n-Undecane	21.44	57	7181007	117.691	ng		77
94) 1,2,4-Trichlorobenzene	22.56	184	887882	121.458	ng	#	85
95) Naphthalene	22.70	128	12485791	114.779	ng		99
96) n-Dodecane	22.67	57	7240156	123.503	ng		76
97) Hexachloro-1,3-butadiene	23.11	225	1302962	117.126	ng		100

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

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:45:05 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





TIC: 05120808.D\data.ms

(10) Ethanol (T)

5.791min (+0.042) 82.36ng

response 1903385

split peaks

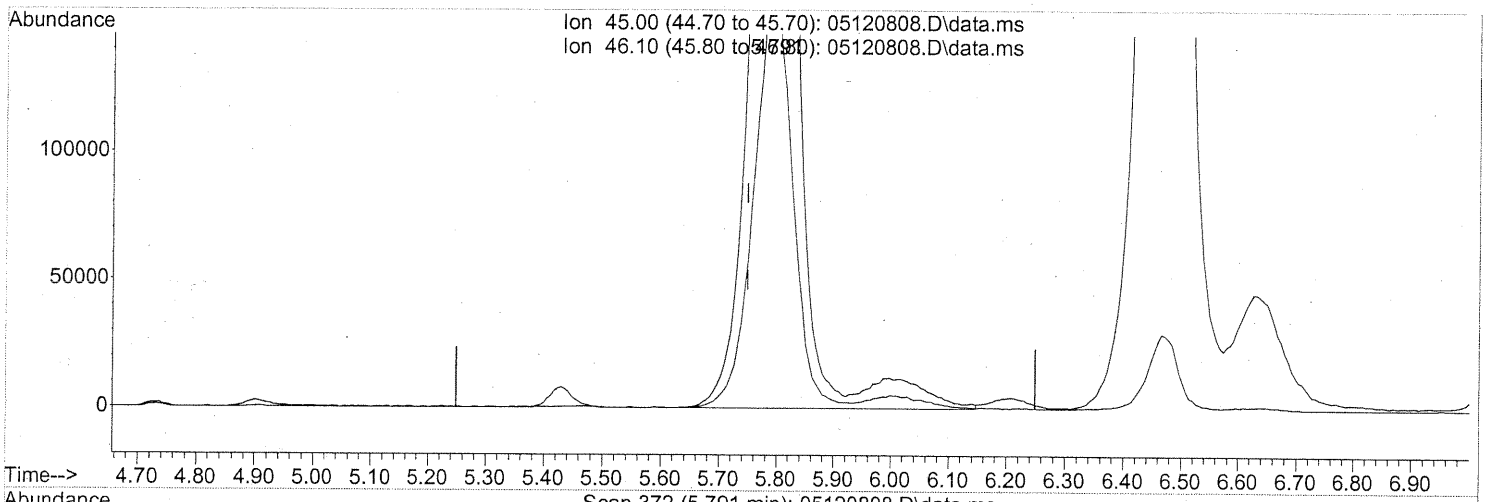
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.70
0.00	0.00	0.00
0.00	0.00	0.00

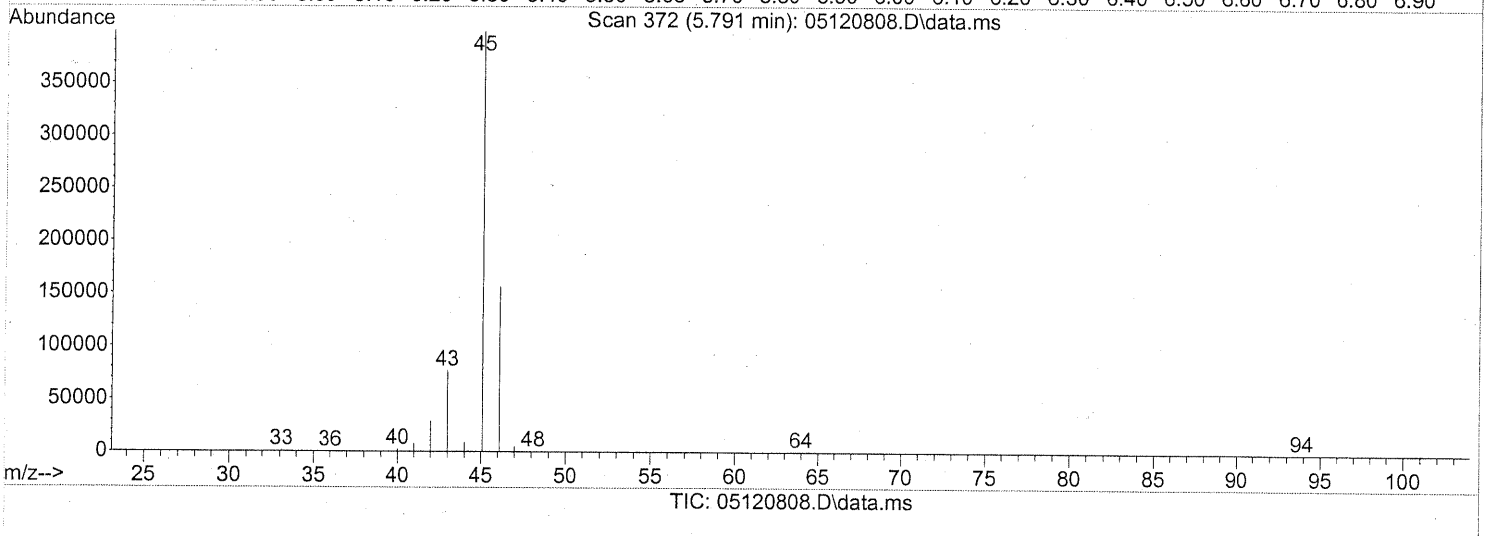
1054

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:45:05 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





TIC: 05120808.D\data.ms

(10) Ethanol (T)

5.791min (+0.042) 86.04ng m

response 1988471

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.00
0.00	0.00	0.00
0.00	0.00	0.00

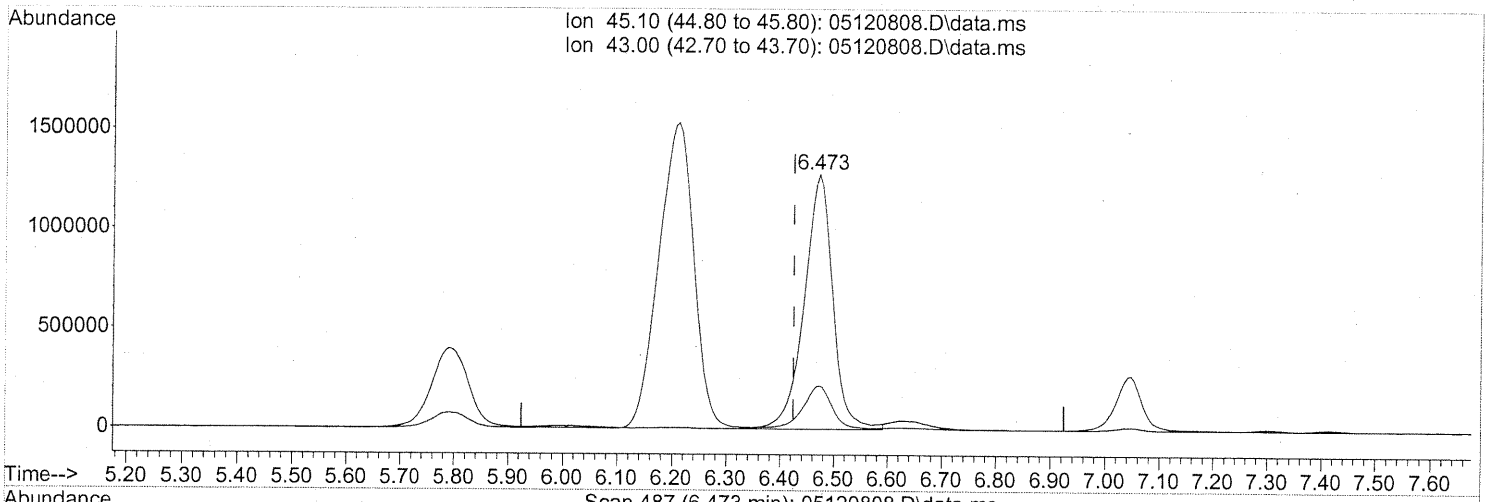
int. whole peaks
DA 5/13/08
Em 5/13/08

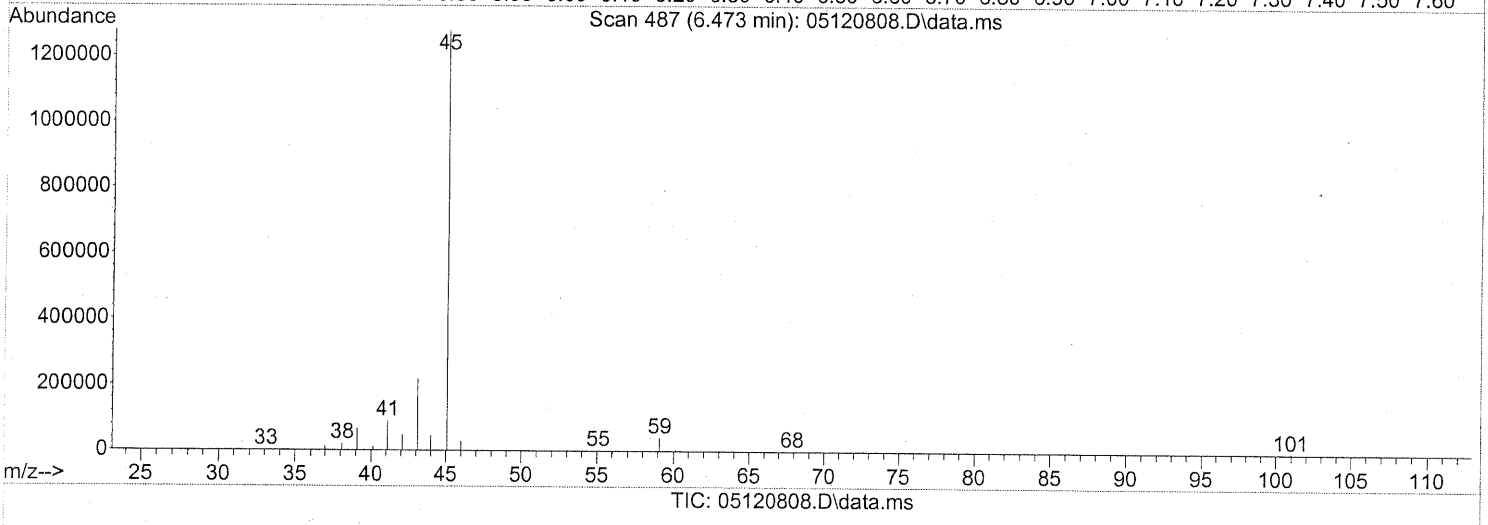
1055

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:45:05 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





TIC: 05120808.D\data.ms

(15) Isopropanol (T)

6.473min (+0.048) 61.18ng

response 4736917

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	18.47
0.00	0.00	0.00
0.00	0.00	0.00

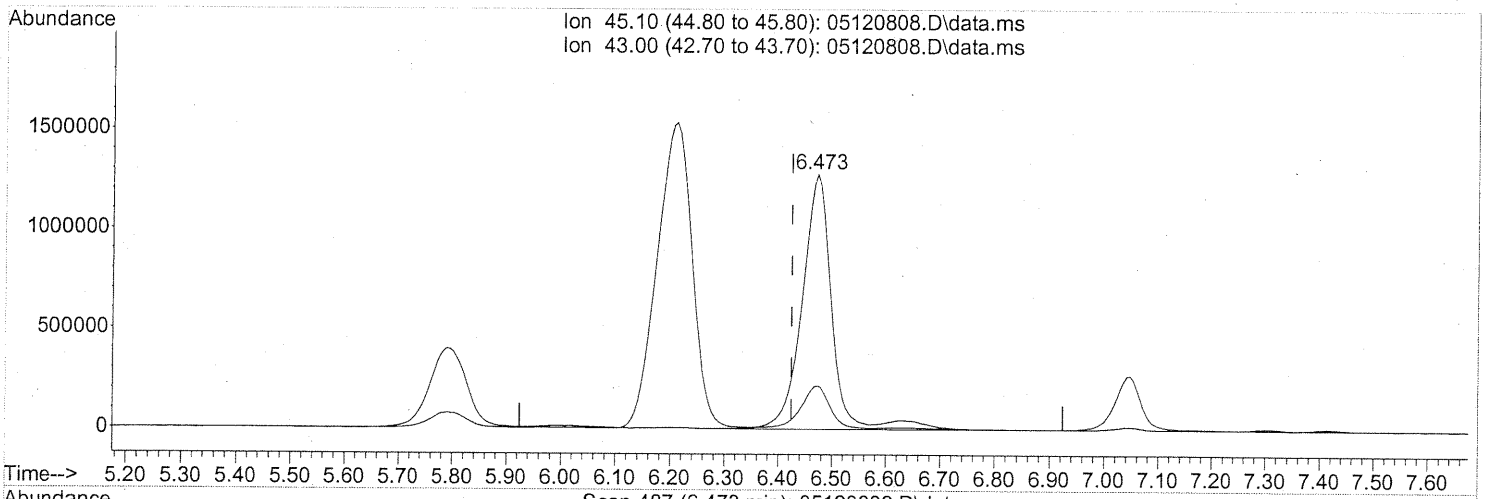
split peaks

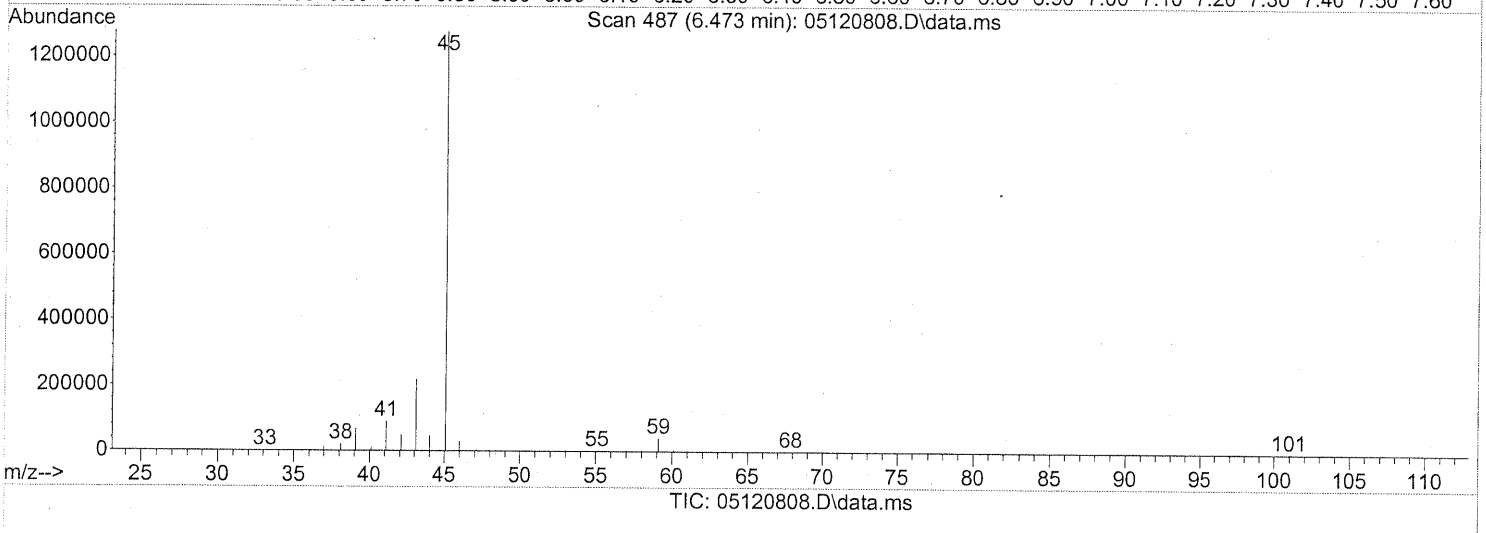
1056

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120808.D
Acq On : 12 May 2008 20:12
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05020804
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 20:45:05 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 19:59:09 2008
Response via : Initial Calibration





TIC: 05120808.D\data.ms

(15) Isopropanol (T)

6.473min (+0.048) 64.20ng m

response 4970817

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

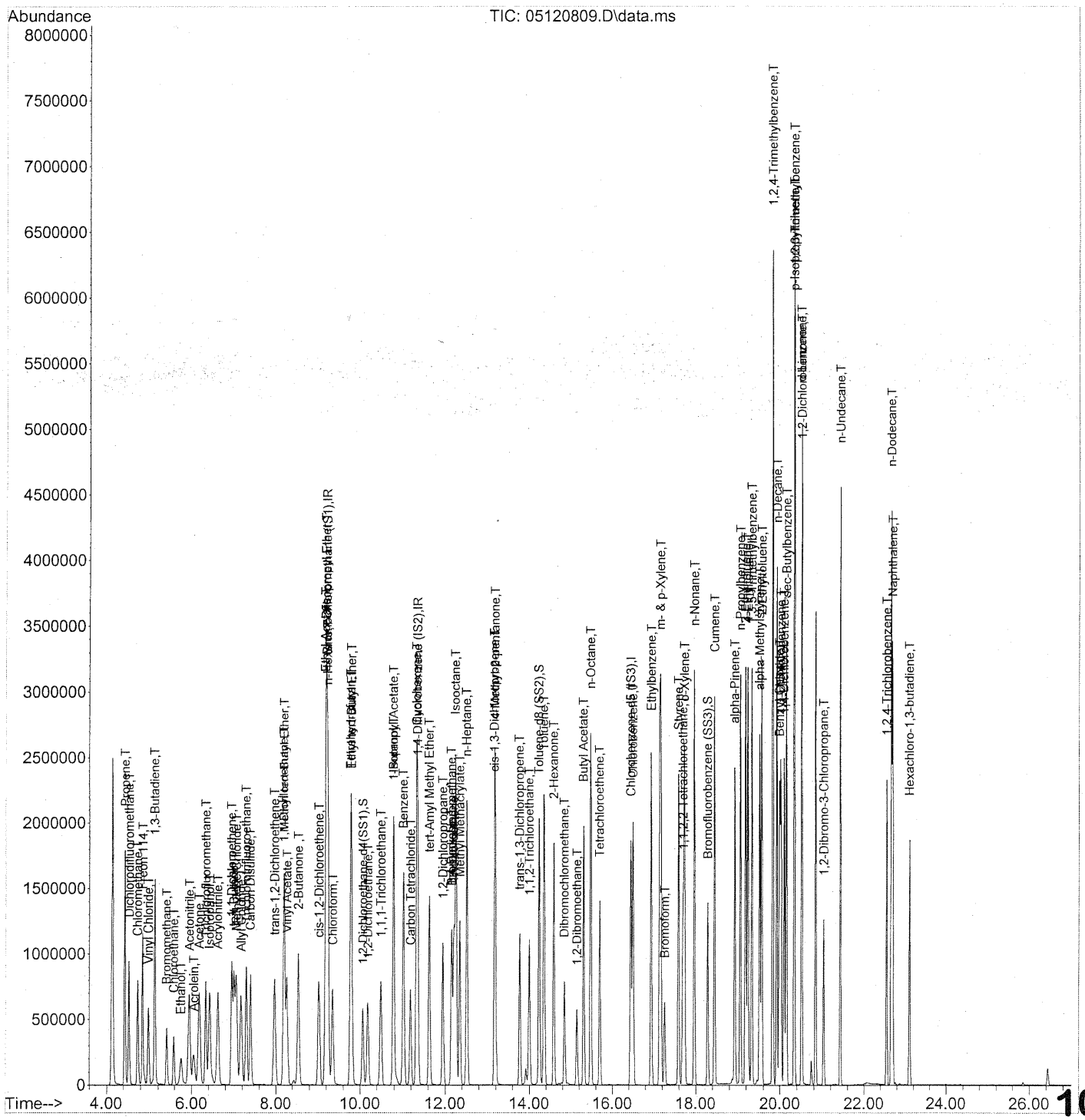
int. whole peaks
DA 5/13/08
Em 5/13/08

1057

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:33:29 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:33:29 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	359421	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1526634	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	16.45	82	643954	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	573007	22.608	ng		-0.02
Spiked Amount 25.000			Recovery =	90.44%			
57) Toluene-d8 (SS2)	14.23	98	1603235	25.286	ng		-0.01
Spiked Amount 25.000			Recovery =	101.16%			
73) Bromofluorobenzene (SS3)	18.29	174	431997	26.179	ng		0.00
Spiked Amount 25.000			Recovery =	104.72%			
Target Compounds							Qvalue
2) Propene	4.44	42	832470	23.163	ng		95
3) Dichlorodifluoromethane	4.53	85	919304	21.633	ng		99
4) Chloromethane	4.73	50	1142893	21.754	ng		100
5) Freon 114	4.85	135	495935	24.202	ng		97
6) Vinyl Chloride	4.98	62	785129	21.644	ng		95
7) 1,3-Butadiene	5.13	54	894664	26.416	ng		90
8) Bromomethane	5.41	94	382886	25.614	ng		99
9) Chloroethane	5.58	64	400885	24.176	ng		96
10) Ethanol	5.75	45	521089m	21.087	ng		
11) Acetonitrile	5.95	41	1428516	22.263	ng		99
12) Acrolein	6.06	56	390726	22.205	ng		98
13) Acetone	6.18	58	511481	21.538	ng		90
14) Trichlorofluoromethane	6.34	101	854602	24.316	ng		99
15) Isopropanol	6.42	45	1686254m	21.901	ng		
16) Acrylonitrile	6.63	53	1005844	23.815	ng		98
17) 1,1-Dichloroethene	6.95	96	453917	26.383	ng		87
18) tert-Butanol	7.00	59	1585489	22.642	ng		96
19) Methylene Chloride	7.06	84	447279	23.841	ng	#	44
20) Allyl Chloride	7.17	41	931832	23.702	ng		83
21) Trichlorotrifluoroethane	7.30	151	406387	27.514	ng		97
22) Carbon Disulfide	7.40	76	1614424	22.799	ng		100
23) trans-1,2-Dichloroethene	7.97	61	892592	24.261	ng		89
24) 1,1-Dichloroethane	8.19	63	994167	23.699	ng		95
25) Methyl tert-Butyl Ether	8.20	73	1403860	24.895	ng		80
26) Vinyl Acetate	8.27	86	120884	25.092	ng	#	1
27) 2-Butanone	8.55	72	315741	25.806	ng	#	24
28) cis-1,2-Dichloroethene	9.04	61	833321	24.569	ng		90
29) Diisopropyl Ether	9.20	87	391024	25.111	ng	#	30
30) Ethyl Acetate	9.19	61	249631	27.585	ng		86
31) n-Hexane	9.24	57	1254291	24.525	ng		91

DH 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:33:29 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.36	83	761301	28.405	ng		95
34) Tetrahydrofuran	9.78	72	311324	25.388	ng	#	50
35) Ethyl tert-Butyl Ether	9.80	87	555733	25.161	ng	#	69
36) 1,2-Dichloroethane	10.19	62	745517	23.253	ng		96
38) 1,1,1-Trichloroethane	10.50	97	726361	24.743	ng		91
39) Isopropyl Acetate	10.79	61	395753	25.362	ng	#	64
40) 1-Butanol	10.79	56	606731	20.980	ng		93
41) Benzene	11.02	78	1803745	24.101	ng		100
42) Carbon Tetrachloride	11.20	117	637206	28.751	ng		99
43) Cyclohexane	11.34	84	707848	23.878	ng	#	49
44) tert-Amyl Methyl Ether	11.64	73	1316324	24.976	ng		78
45) 1,2-Dichloropropane	11.95	63	580044	24.983	ng		97
46) Bromodichloromethane	12.16	83	596221	26.810	ng		93
47) Trichloroethene	12.21	130	544713	26.430	ng		99
48) 1,4-Dioxane	12.16	88	376745	26.796	ng	#	67
49) Isooctane	12.26	57	3038611	24.444	ng		96
50) Methyl Methacrylate	12.36	100	196570	26.599	ng		89
51) n-Heptane	12.52	71	489149	25.688	ng	#	58
52) cis-1,3-Dichloropropene	13.17	75	725987	24.323	ng		100
53) 4-Methyl-2-pentanone	13.19	58	649344	23.839	ng		83
54) trans-1,3-Dichloropropene	13.77	75	730534	27.710	ng		98
55) 1,1,2-Trichloroethane	14.00	97	448638	24.701	ng		95
58) Toluene	14.35	91	1961425	25.249	ng		99
59) 2-Hexanone	14.59	43	1792634	21.823	ng		97
60) Dibromochloromethane	14.85	129	563947	27.814	ng		100
61) 1,2-Dibromoethane	15.15	107	529801	26.429	ng		99
62) Butyl Acetate	15.31	43	1996076	23.817	ng		95
63) n-Octane	15.49	57	632348	25.434	ng		92
64) Tetrachloroethene	15.70	166	500257	26.055	ng		98
65) Chlorobenzene	16.50	112	1336159	25.990	ng		99
66) Ethylbenzene	16.95	91	2252218	25.417	ng		95
67) m- & p-Xylene	17.16	91	3505247	60.375	ng		95
68) Bromoform	17.26	173	390456	35.611	ng		100
69) Styrene	17.59	104	1403319	26.080	ng		97
70) o-Xylene	17.74	91	1776925	28.700	ng		95
71) n-Nonane	17.97	43	1679791	24.565	ng		92
72) 1,1,2,2-Tetrachloroethane	17.70	83	799744	29.320	ng		94
74) Cumene	18.45	105	2321182	26.836	ng		96
75) alpha-Pinene	18.93	93	1085388	25.683	ng		97
76) n-Propylbenzene	19.07	91	2755913	25.408	ng		94
77) 3-Ethyltoluene	19.19	105	2351341	25.100	ng		96
78) 4-Ethyltoluene	19.24	105	2249188	26.367	ng		96
79) 1,3,5-Trimethylbenzene	19.33	105	1910258	25.435	ng		91

DA 5/13/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:33:29 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	949258	23.296	ng		99
81) 2-Ethyltoluene	19.57	105	2277634	24.506	ng		94
82) 1,2,4-Trimethylbenzene	19.83	105	1984836	25.576	ng		92
83) n-Decane	19.93	57	1579821	25.684	ng		80
84) Benzyl Chloride	19.99	91	1687149	26.088	ng		93
85) 1,3-Dichlorobenzene	20.02	146	1126091	25.004	ng		100
86) 1,4-Dichlorobenzene	20.10	146	1133732	26.355	ng		99
87) sec-Butylbenzene	20.16	105	2648591	26.198	ng		97
88) p-Isopropyltoluene	20.34	119	2533506	29.508	ng		95
89) 1,2,3-Trimethylbenzene	20.35	105	2096429	27.742	ng		90
90) 1,2-Dichlorobenzene	20.52	146	1069985	25.616	ng		100
91) d-Limonene	20.52	68	624816	22.317	ng		97
92) 1,2-Dibromo-3-Chloropr...	21.04	157	360138	27.360	ng		93
93) n-Undecane	21.43	57	1682568	26.011	ng		80
94) 1,2,4-Trichlorobenzene	22.55	184	200483	27.591	ng	#	87
95) Naphthalene	22.69	128	2810509	25.594	ng		99
96) n-Dodecane	22.66	57	1596402	25.291	ng		79
97) Hexachloro-1,3-butadiene	23.11	225	298877	27.512	ng		100

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

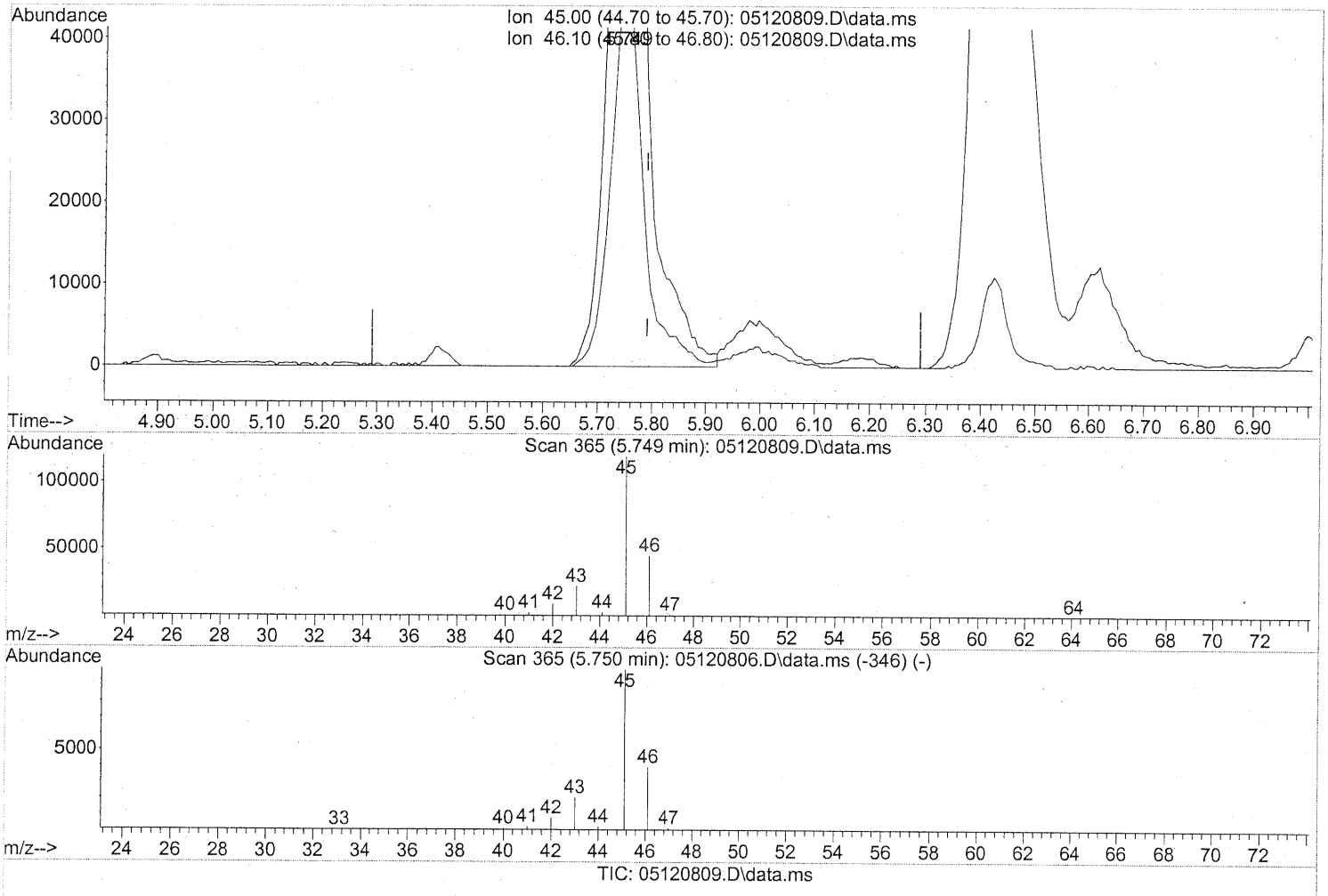
1061

JDH 5/13/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:32:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration



TIC: 05120809.D\data.ms

(10) Ethanol (T)

5.749min (-0.042) 19.67ng

response 486094

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.19
0.00	0.00	0.00
0.00	0.00	0.00

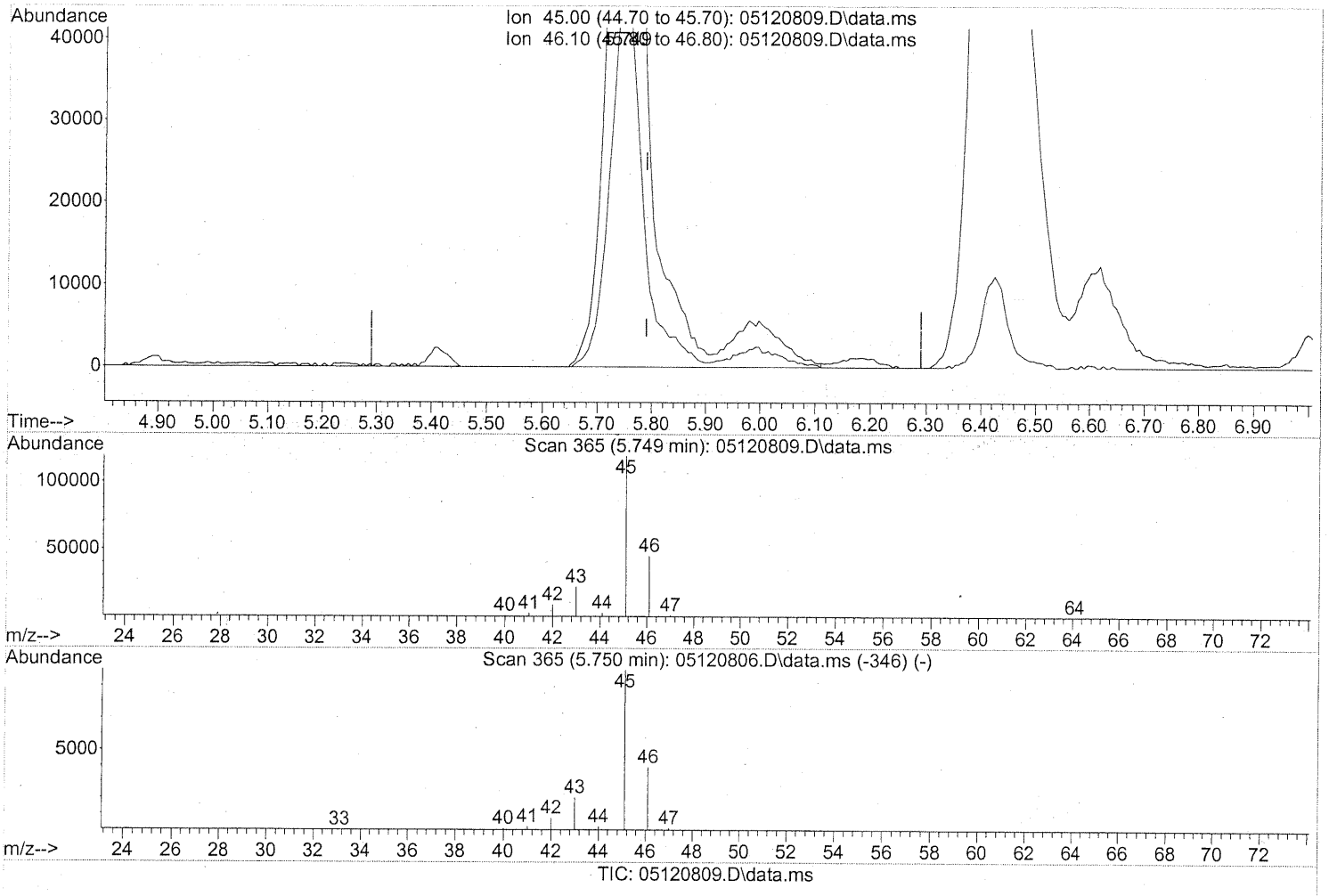
split peaks

1062

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:32:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration



TIC: 05120809.D\data.ms

(10) Ethanol (T)

5.749min (-0.042) 21.09ng m

response 521089

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	36.55
0.00	0.00	0.00
0.00	0.00	0.00

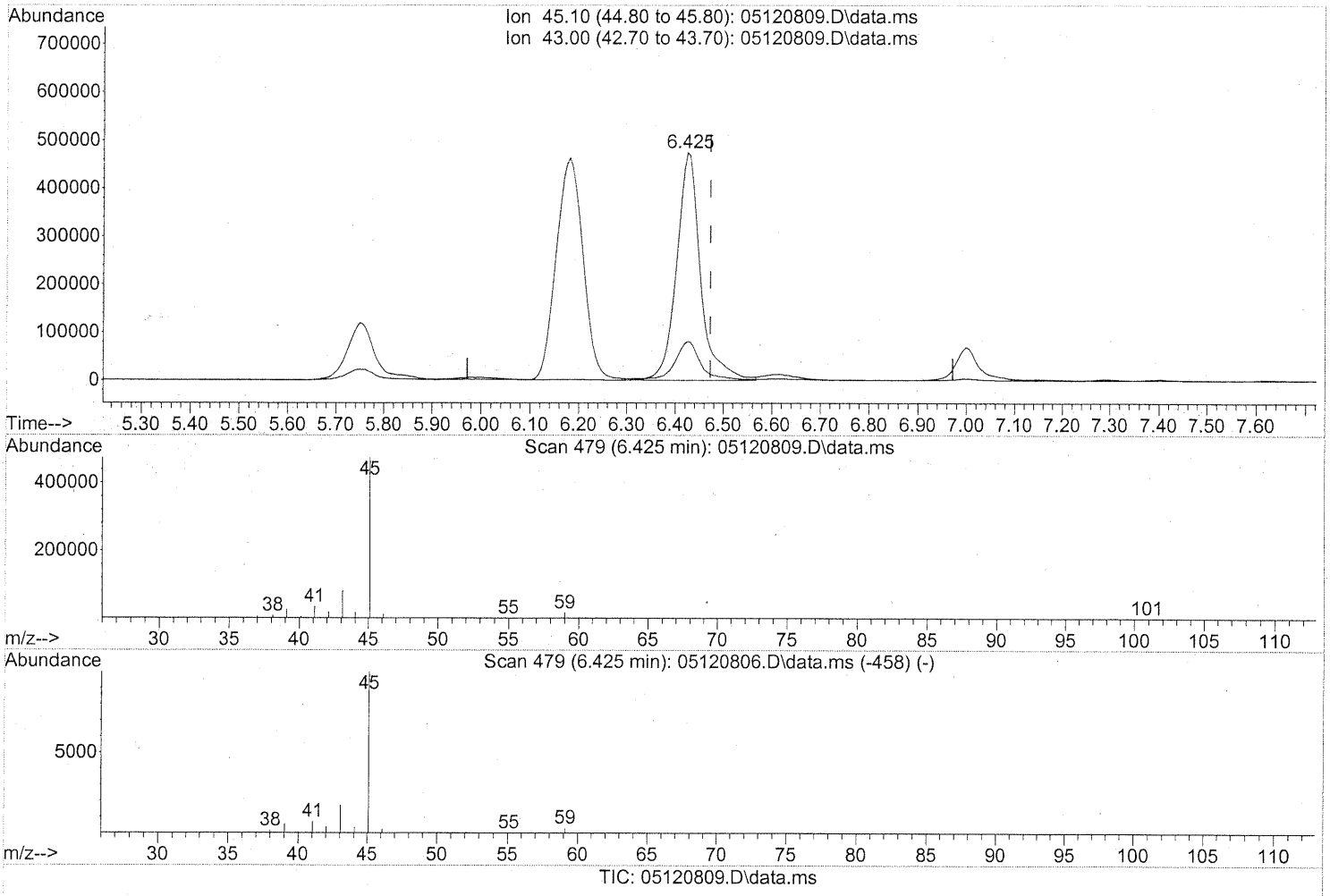
int. whole peaks
DA 5/13/08
Tom 5/13/08

1063

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:32:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration



TIC: 05120809.D\data.ms

(15) Isopropanol (T)

6.425min (-0.048) 21.15ng

response 1628544

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	17.58
0.00	0.00	0.00
0.00	0.00	0.00

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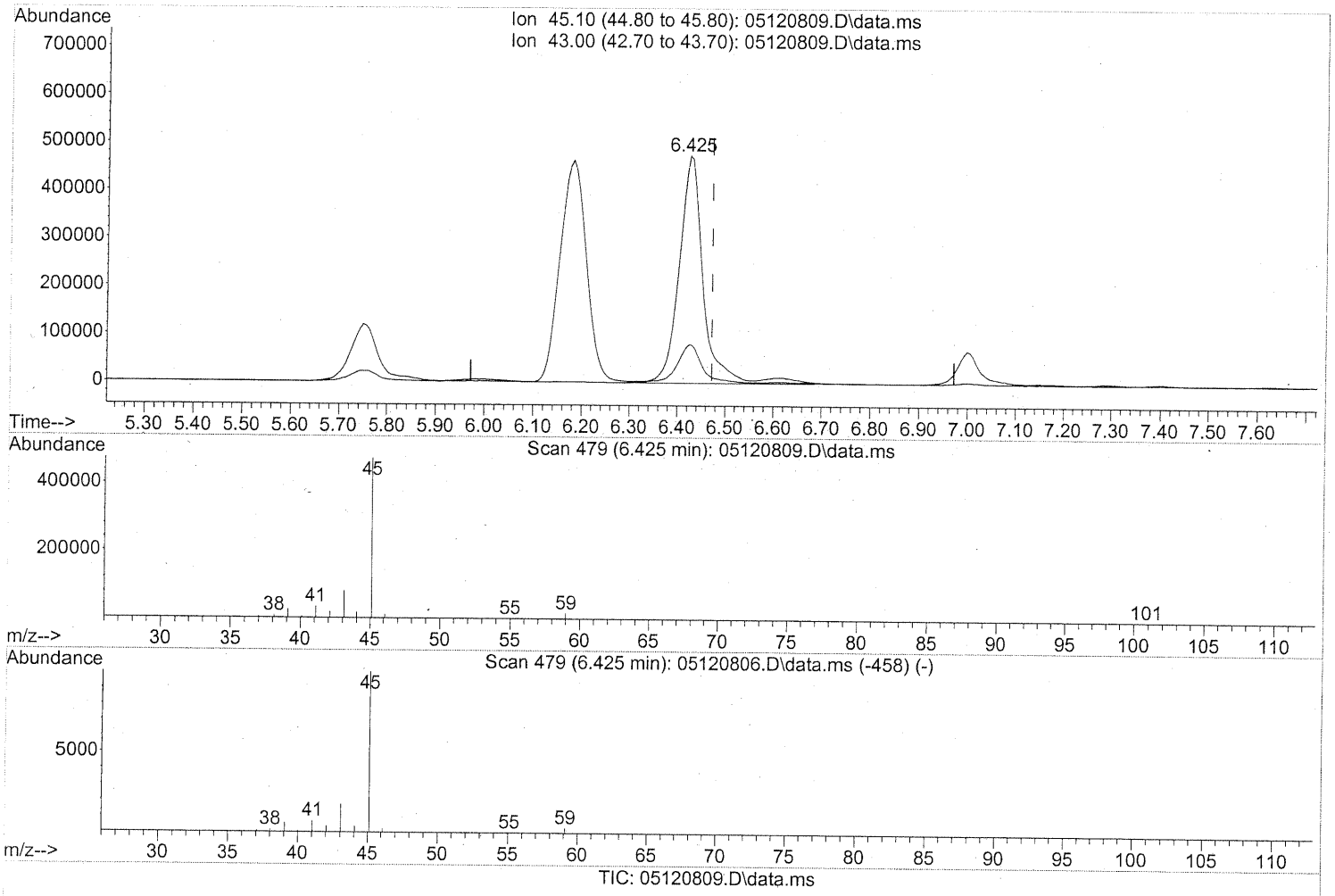
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120809.D
Acq On : 12 May 2008 20:50
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05050804
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 21:32:00 2008
Quant Method : J:\MS16\METHODS\R16051208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:57:17 2008
Response via : Initial Calibration



TIC: 05120809.D\data.ms

(15) Isopropanol (T)

6.425min (-0.048) 21.90ng m

response 1686254

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.98
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
DM 5/13/08
EM 5/13/08

1065

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05120809.D**
Data File Path: **J:\MS16\DATA\2008_05\12a**
Operator: **WA**
Date Acquired: **5/12/08 20:50**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05050804**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.44	23.16	26.3	88.1	70	130	*
3)	Dichlorodifluoromethane	4.53	21.63	25.5	84.8	70	130	*
4)	Chloromethane	4.73	21.75	24.5	88.8	70	130	*
5)	Freon 114	4.85	24.20	26.0	93.1	70	130	*
6)	Vinyl Chloride	4.98	21.64	24.8	87.3	70	130	*
7)	1,3-Butadiene	5.13	26.42	30.0	88.1	70	130	*
8)	Bromomethane	5.41	25.61	25.0	102.5	70	130	*
9)	Chloroethane	5.58	24.18	25.0	96.7	70	130	*
10)	Ethanol	5.75	21.09	23.8	88.6	70	130	*
11)	Acetonitrile	5.95	22.26	25.3	88.0	70	130	*
12)	Acrolein	6.06	22.21	24.8	89.5	70	130	*
13)	Acetone	6.18	21.54	26.8	80.4	70	130	*
14)	Trichlorofluoromethane	6.34	24.32	26.3	92.5	70	130	*
15)	Isopropanol	6.42	21.90	25.8	84.9	70	130	*
16)	Acrylonitrile	6.63	23.81	25.5	93.4	70	130	*
17)	1,1-Dichloroethene	6.95	26.38	27.8	94.9	70	130	*
18)	tert-Butanol	7.00	22.64	25.8	87.8	70	130	*
19)	Methylene Chloride	7.06	23.84	27.8	85.8	70	130	*
20)	Allyl Chloride	7.17	23.70	26.8	88.4	70	130	*
21)	Trichlorotrifluoroethane	7.30	27.51	27.8	99.0	70	130	*
22)	Carbon Disulfide	7.40	22.80	25.0	91.2	70	130	*
23)	trans-1,2-Dichloroethene	7.97	24.26	26.5	91.6	70	130	*
24)	1,1-Dichloroethane	8.19	23.70	26.8	88.4	70	130	*
25)	Methyl tert-Butyl Ether	8.20	24.89	26.8	92.9	70	130	*
26)	Vinyl Acetate	8.27	25.09	25.3	99.2	70	130	*
27)	2-Butanone	8.55	25.81	27.0	95.6	70	130	*
28)	cis-1,2-Dichloroethene	9.04	24.57	27.0	91.0	70	130	*
29)	Diisopropyl Ether	9.20	25.11	26.3	95.5	70	130	*
30)	Ethyl Acetate	9.19	27.58	29.3	94.1	70	130	*
31)	n-Hexane	9.24	24.52	27.0	90.8	70	130	*
32)	Chloroform	9.36	28.41	29.8	95.3	70	130	*
34)	Tetrahydrofuran	9.78	25.39	26.8	94.7	70	130	*
35)	Ethyl tert-Butyl Ether	9.80	25.16	26.0	96.8	70	130	*
36)	1,2-Dichloroethane	10.19	23.25	26.3	88.4	70	130	*
38)	1,1,1-Trichloroethane	10.50	24.74	26.8	92.3	70	130	*
39)	Isopropyl Acetate	10.79	25.36	25.5	99.5	70	130	*

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5/13/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05120809.D**
Data File Path: **J:\MS16\DATA\2008_05\12a**
Operator: **WA**
Date Acquired: **5/12/08 20:50**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05050804**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
40)	1-Butanol	10.79	20.98	24.8	84.6	70	130	*
41)	**Benzene**	**11.02**	**24.10**	**27.0**	**89.3**	**70**	**130**	*
42)	**Carbon Tetrachloride**	**11.20**	**28.75**	**26.0**	**110.6**	**70**	**130**	*
43)	Cyclohexane	11.34	23.88	26.8	89.1	70	130	*
44)	**tert-Amyl Methyl Ether**	**11.64**	**24.98**	**26.0**	**96.1**	**70**	**130**	*
45)	**1,2-Dichloropropane**	**11.95**	**24.98**	**26.5**	**94.3**	**70**	**130**	*
46)	**Bromodichloromethane**	**12.16**	**26.81**	**27.8**	**96.4**	**70**	**130**	*
47)	**Trichloroethene**	**12.21**	**26.43**	**27.3**	**96.8**	**70**	**130**	*
48)	**1,4-Dioxane**	**12.16**	**26.80**	**27.5**	**97.4**	**70**	**130**	*
49)	Isooctane	12.26	24.44	26.3	92.9	70	130	*
50)	Methyl Methacrylate	12.36	26.60	25.8	103.1	70	130	*
51)	n-Heptane	12.52	25.69	26.8	95.9	70	130	*
52)	**cis-1,3-Dichloropropene**	**13.17**	**24.32**	**25.0**	**97.3**	**70**	**130**	*
53)	**4-Methyl-2-pentanone**	**13.19**	**23.84**	**27.5**	**86.7**	**70**	**130**	*
54)	**trans-1,3-Dichloropropene**	**13.77**	**27.71**	**28.0**	**99.0**	**70**	**130**	*
55)	**1,1,2-Trichloroethane**	**14.00**	**24.70**	**26.3**	**93.9**	**70**	**130**	*
58)	**Toluene**	**14.35**	**25.25**	**26.5**	**95.3**	**70**	**130**	*
59)	**2-Hexanone**	**14.59**	**21.82**	**26.3**	**83.0**	**70**	**130**	*
60)	**Dibromochloromethane**	**14.85**	**27.81**	**27.0**	**103.0**	**70**	**130**	*
61)	**1,2-Dibromoethane**	**15.15**	**26.43**	**26.3**	**100.5**	**70**	**130**	*
62)	**Butyl Acetate**	**15.31**	**23.82**	**26.3**	**90.6**	**70**	**130**	*
63)	n-Octane	15.49	25.43	26.0	97.8	70	130	*
64)	**Tetrachloroethene**	**15.70**	**26.06**	**26.0**	**100.2**	**70**	**130**	*
65)	**Chlorobenzene**	**16.50**	**25.99**	**26.5**	**98.1**	**70**	**130**	*
66)	**Ethylbenzene**	**16.95**	**25.42**	**26.3**	**96.6**	**70**	**130**	*
67)	**m- & p-Xylene**	**17.16**	**60.37**	**62.5**	**96.6**	**70**	**130**	*
68)	**Bromoform**	**17.26**	**35.61**	**31.3**	**113.8**	**70**	**130**	*
69)	**Styrene**	**17.59**	**26.08**	**26.3**	**99.2**	**70**	**130**	*
70)	**o-Xylene**	**17.74**	**28.70**	**29.8**	**96.3**	**70**	**130**	*
71)	**n-Nonane**	**17.97**	**24.56**	**26.0**	**94.5**	**70**	**130**	*
72)	**1,1,2,2-Tetrachloroethane**	**17.70**	**29.32**	**29.8**	**98.4**	**70**	**130**	*
74)	**Cumene**	**18.45**	**26.84**	**27.0**	**99.4**	**70**	**130**	*
75)	**alpha-Pinene**	**18.93**	**25.68**	**26.3**	**97.7**	**70**	**130**	*
76)	n-Propylbenzene	19.07	25.41	26.3	96.6	70	130	*
77)	3-Ethyltoluene	19.19	25.10	25.5	98.4	70	130	*

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BT 5/13/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05120809.D**
Data File Path: **J:\MS16\DATA\2008_05\12a**
Operator: **WA**
Date Acquired: **5/12/08 20:50**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05050804**
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**	**26.37**	**26.5**	**99.5**	**70**	**130**	*
79)	**1,3,5-Trimethylbenzene**	**19.33**	**25.44**	**26.0**	**97.8**	**70**	**130**	*
80)	alpha-Methylstyrene	19.51	23.30	25.5	91.4	70	130	*
81)	2-Ethyltoluene	19.57	24.51	24.8	98.8	70	130	*
82)	**1,2,4-Trimethylbenzene**	**19.83**	**25.58**	**26.0**	**98.4**	**70**	**130**	*
83)	n-Decane	19.93	25.68	26.3	97.7	70	130	*
84)	**Benzyl Chloride**	**19.99**	**26.09**	**25.8**	**101.1**	**70**	**130**	*
85)	**1,3-Dichlorobenzene**	**20.02**	**25.00**	**25.5**	**98.1**	**70**	**130**	*
86)	**1,4-Dichlorobenzene**	**20.10**	**26.36**	**26.3**	**100.2**	**70**	**130**	*
87)	sec-Butylbenzene	20.16	26.20	26.8	97.8	70	130	*
88)	p-Isopropyltoluene	20.34	29.51	28.8	102.5	70	130	*
89)	1,2,3-Trimethylbenzene	20.35	27.74	28.5	97.3	70	130	*
90)	**1,2-Dichlorobenzene**	**20.52**	**25.62**	**25.8**	**99.3**	**70**	**130**	*
91)	**d-Limonene**	**20.52**	**22.32**	**26.0**	**85.8**	**70**	**130**	*
92)	**1,2-Dibromo-3-Chloropropane**	**21.04**	**27.36**	**25.8**	**106.0**	**70**	**130**	*
93)	n-Undecane	21.43	26.01	26.5	98.2	70	130	*
94)	**1,2,4-Trichlorobenzene**	**22.55**	**27.59**	**26.0**	**106.1**	**70**	**130**	*
95)	**Naphthalene**	**22.69**	**25.59**	**26.3**	**97.3**	**70**	**130**	*
96)	n-Dodecane	22.66	25.29	26.5	95.4	70	130	*
97)	**Hexachloro-1,3-butadiene**	**23.11**	**27.51**	**26.3**	**104.6**	**70**	**130**	*

Bold = 67 Compound List

5/13/08

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	ISTD								
2)	T	Propene	2.996	2.142	1.885	1.694	1.693	1.735	1.676	1.974	24.32
3)	T	Dichlorodifluoromet	4.403	4.247	3.956	3.401	3.313	3.156	2.998	3.639	15.31
4)	T	Chloromethane	2.957	3.067	2.796	2.018	2.332	2.045	1.281	2.357	26.99
5)	T	Freon 114	2.153	2.139	1.885	1.633	1.610	1.556	1.557	1.790	14.92
6)	T	Vinyl Chloride	2.718	2.689	2.542	2.163	2.207	2.119	2.068	2.358	11.93
7)	T	1,3-Butadiene	1.659	1.954	1.730	1.666	1.787	1.769	1.713	1.754	5.72
8)	T	Bromomethane	1.626	1.472	1.337	1.161	1.224	1.203	1.169	1.313	13.46
9)	T	Chloroethane	1.226	1.327	1.162	1.041	1.050	1.032	1.003	1.120	10.85
10)	T	Ethanol	1.635	1.517	1.362	1.140	1.191	1.186	1.170	1.314	14.85
11)	T	Acetonitrile	6.122	4.022	3.645	3.315	3.213	3.203	3.086	3.801	28.24
12)	T	Acrolein	0.968	1.081	0.964	0.844	0.914	0.909	0.893	0.939	8.07
13)	T	Acetone		1.963	1.497	1.180	1.172	1.146	1.118	1.346	24.71
14)	T	Trichlorofluorometh	3.673	3.687	3.177	2.901	2.908	2.808	2.702	3.122	13.04
15)	T	Isopropanol	5.776	5.067	4.561	3.546	4.053	3.658	3.384	4.292	20.66
16)	T	Acrylonitrile	1.923	2.234	2.145	1.930	2.079	2.050	1.983	2.049	5.60
17)	T	1,1-Dichloroethene	1.512	1.582	1.406	1.279	1.305	1.283	1.247	1.373	9.48
18)	T	tert-Butanol	4.223	4.305	3.973	3.489	3.769	3.668	2.128	3.651	20.07
19)	T	Methylene Chloride	1.910	1.686	1.599	1.344	1.368	1.329	1.293	1.504	15.50
20)	T	Allyl Chloride	1.466	1.992	1.865	1.947	2.252	2.275	2.251	2.007	14.50
21)	T	Trichlorotrifluoroe	1.781	1.592	1.471	1.292	1.301	1.276	1.227	1.420	14.40
22)	T	Carbon Disulfide	7.391	6.305	5.692	5.153	5.306	5.151	4.955	5.707	15.23
23)	T	trans-1,2-Dichloroe	2.502	2.491	2.233	2.074	2.138	2.086	2.050	2.225	8.75
24)	T	1,1-Dichloroethane	2.778	3.083	2.737	2.443	2.471	2.415	2.342	2.610	10.19
25)	T	Methyl tert-Butyl E	4.983	4.864	4.518	4.093	4.135	4.014	3.857	4.352	10.10
26)	T	Vinyl Acetate			0.163	0.208	0.285	0.290	0.298	0.249	24.15
27)	T	2-Butanone	1.137	1.125	0.977	0.900	0.951	0.923	0.862	0.982	11.00
28)	T	cis-1,2-Dichloroeth	2.376	2.444	2.222	1.960	2.018	1.960	1.904	2.126	10.33
29)	T	Diisopropyl Ether	1.432	1.325	1.184	1.109	1.151	1.136	1.089	1.204	10.55
30)	T	Ethyl Acetate	0.496	0.589	0.542	0.495	0.531	0.538	0.521	0.530	6.03
31)	T	n-Hexane	3.007	2.923	2.684	2.497	2.603	2.562	2.454	2.676	7.93

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05/22/08

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
32)	T	Chloroform	2.691	2.730	2.328	2.094	2.109	2.037	1.968	2.280	13.80
33)	S	1,2-Dichloroethane-	1.794	1.789	1.787	1.711	1.716	1.686	1.643	1.732	3.40
34)	T	Tetrahydrofuran	1.021	1.099	0.975	0.873	0.917	0.866	0.821	0.939	10.44
35)	T	Ethyl tert-Butyl Et	1.797	1.942	1.697	1.574	1.637	1.594	1.558	1.686	8.30
36)	T	1,2-Dichloroethane	2.524	2.601	2.310	2.054	2.082	1.969	1.877	2.202	12.72
37)	IR	1,4-Difluorobenzene (	----------ISTD----------								
38)	T	1,1,1-Trichloroetha	0.651	0.628	0.604	0.535	0.535	0.522	0.511	0.569	9.96
39)	T	Isopropyl Acetate	0.187	0.233	0.196	0.205	0.227	0.225	0.221	0.214	8.22
40)	T	1-Butanol	0.277	0.375	0.316	0.325	0.370	0.375	0.367	0.344	11.13
41)	T	Benzene	1.560	1.436	1.299	1.209	1.254	1.224	1.181	1.309	10.62
42)	T	Carbon Tetrachlorid	0.497	0.547	0.505	0.483	0.507	0.498	0.491	0.504	4.12
43)	T	Cyclohexane	0.567	0.593	0.522	0.468	0.478	0.468	0.468	0.509	10.32
44)	T	tert-Amyl Methyl Et	1.002	1.053	0.908	0.885	0.923	0.910	0.891	0.939	6.77
45)	T	1,2-Dichloropropane	0.363	0.416	0.357	0.321	0.336	0.330	0.329	0.350	9.41
46)	T	Bromodichloromethan	0.439	0.509	0.447	0.421	0.433	0.428	0.420	0.442	7.00
47)	T	Trichloroethene	0.530	0.487	0.406	0.352	0.352	0.341	0.344	0.402	19.24
48)	T	1,4-Dioxane	0.276	0.274	0.245	0.229	0.237	0.234	0.233	0.247	8.06
49)	T	Isooctane	1.679	1.676	1.522	1.389	1.455	1.415	1.368	1.501	8.71
50)	T	Methyl Methacrylate	0.122	0.144	0.120	0.125	0.137	0.134	0.133	0.131	6.68
51)	T	n-Heptane	0.343	0.392	0.351	0.330	0.347	0.337	0.335	0.348	5.94
52)	T	cis-1,3-Dichloropro	0.487	0.576	0.503	0.497	0.534	0.527	0.518	0.520	5.69
53)	T	4-Methyl-2-pentanon	0.341	0.373	0.338	0.330	0.354	0.350	0.346	0.348	3.98
54)	T	trans-1,3-Dichlorop	0.405	0.443	0.423	0.435	0.483	0.480	0.474	0.449	6.78
55)	T	1,1,2-Trichloroetha	0.341	0.367	0.322	0.306	0.315	0.308	0.307	0.323	6.97
56)	I	Chlorobenzene-d5 (IS3	----------ISTD----------								
57)	S	Toluene-d8 (SS2)	2.281	2.276	2.255	2.249	2.226	2.198	2.231	2.245	1.31
58)	T	Toluene	3.463	3.565	3.084	2.836	2.899	2.799	2.718	3.052	11.02
59)	T	2-Hexanone	1.912	2.227	2.158	2.079	2.193	2.120	2.032	2.103	5.10
60)	T	Dibromochloromethan	0.768	0.914	0.816	0.790	0.839	0.817	0.826	0.824	5.59
61)	T	1,2-Dibromoethane	0.797	0.908	0.827	0.763	0.777	0.757	0.764	0.799	6.75

05/22/08

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Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
62)	T	Butyl Acetate	1.835	2.349	2.145	2.075	2.250	2.180	2.107	2.135	7.54
63)	T	n-Octane	0.690	0.724	0.697	0.630	0.668	0.658	0.658	0.675	4.61
64)	T	Tetrachloroethene	1.085	1.019	0.880	0.821	0.845	0.823	0.850	0.903	11.64
65)	T	Chlorobenzene	2.246	2.309	2.117	1.922	1.949	1.899	1.880	2.046	8.66
66)	T	Ethylbenzene	3.745	3.906	3.547	3.348	3.482	3.344	3.125	3.500	7.51
67)	T	m- & p-Xylene	2.410	2.681	2.348	2.213	2.355	2.268	2.110	2.341	7.71
68)	T	Bromoform	0.579	0.613	0.562	0.598	0.655	0.639	0.648	0.613	5.82
69)	T	Styrene	2.121	2.195	2.060	2.004	2.140	2.085	2.043	2.092	3.08
70)	T	o-Xylene	2.664	2.842	2.526	2.396	2.503	2.421	2.337	2.527	6.91
71)	T	n-Nonane	1.672	2.020	1.792	1.739	1.842	1.775	1.720	1.794	6.32
72)	T	1,1,2,2-Tetrachloro	0.868	1.052	1.008	1.065	1.132	1.118	1.129	1.053	8.89
73)	S	Bromofluorobenzene	0.879	0.895	0.904	0.922	0.931	0.923	0.937	0.913	2.31
74)	T	Cumene	3.579	3.802	3.406	3.191	3.337	3.227	3.014	3.365	7.78
75)	T	alpha-Pinene	1.711	1.882	1.729	1.649	1.760	1.737	1.710	1.740	4.10
76)	T	n-Propylbenzene	4.479	4.773	4.364	4.149	4.410	4.159	3.638	4.282	8.26
77)	T	3-Ethyltoluene	3.439	4.011	3.499	3.424	3.723	3.619	3.356	3.582	6.34
78)	T	4-Ethyltoluene	3.313	3.625	3.464	3.345	3.467	3.254	2.904	3.339	6.82
79)	T	1,3,5-Trimethylbenz	3.271	3.262	2.995	2.895	3.052	2.926	2.715	3.017	6.64
80)	T	alpha-Methylstyrene	1.492	1.654	1.560	1.590	1.761	1.707	1.668	1.633	5.63
81)	T	2-Ethyltoluene	3.480	3.971	3.697	3.585	3.795	3.604	3.275	3.630	6.15
82)	T	1,2,4-Trimethylbenz	2.969	3.317	3.051	2.998	3.261	3.129	2.774	3.071	6.00
83)	T	n-Decane	1.469	1.883	1.664	1.676	1.805	1.722	1.610	1.690	7.92
84)	T	Benzyl Chloride	1.352	1.768	1.759	2.062	2.524	2.527	2.433	2.061	22.15
85)	T	1,3-Dichlorobenzene	1.803	2.130	1.917	1.862	1.975	1.911	1.843	1.920	5.64
86)	T	1,4-Dichlorobenzene	1.816	1.998	1.870	1.813	1.915	1.840	1.778	1.861	4.01
87)	T	sec-Butylbenzene	3.801	4.526	3.960	3.887	4.095	3.871	3.337	3.925	9.05
88)	T	p-Isopropyltoluene	2.977	3.482	3.289	3.207	3.536	3.341	2.786	3.231	8.33
89)	T	1,2,3-Trimethylbenz	2.738	3.261	2.991	2.972	3.228	3.108	2.737	3.005	7.06
90)	T	1,2-Dichlorobenzene	1.726	2.007	1.837	1.791	1.907	1.829	1.651	1.821	6.39
91)	T	d-Limonene	1.100	1.225	1.189	1.192	1.343	1.306	1.210	1.224	6.56
92)	T	1,2-Dibromo-3-Chlor	0.385	0.514	0.509	0.578	0.658	0.651	0.661	0.565	18.20
93)	T	n-Undecane	1.496	1.930	1.742	1.747	1.891	1.846	1.727	1.768	8.14

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05/22/08

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
94)	T	1,2,4-Trichlorobenz	1.301	1.433	1.284	1.255	1.354	1.350	1.360	1.334	4.44
95)	T	Naphthalene	3.935	4.205	4.040	3.994	4.350	4.182	3.650	4.051	5.59
96)	T	n-Dodecane	1.445	1.924	1.703	1.694	1.896	1.875	1.775	1.759	9.45
97)	T	Hexachloro-1,3-buta	0.850	0.960	0.856	0.844	0.884	0.894	0.928	0.888	4.87

(#) = Out of Range

05/22/08

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Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: **S20-05210809**
20ng/L Std. ID: **S20-05210806**
200ng/L Std. ID: **S20-05210804**

Dilution Factors:		5	50	250	Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source) 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

05/22/08

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-05210809
20ng/L Std. ID: S20-05210806
200ng/L Std. ID: S20-05210804

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.

05/22/08

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2008_05\22\05220802.D
2	0.5	1	25	J:\MS13\DATA\2008_05\22\05220803.D
3	1.0	1	25	J:\MS13\DATA\2008_05\22\05220804.D
4	5.0	5	25	J:\MS13\DATA\2008_05\22\05220805.D
5	25	27	25	J:\MS13\DATA\2008_05\22\05220806.D
6	50	54	25	J:\MS13\DATA\2008_05\22\05220807.D
7	100	108	25	J:\MS13\DATA\2008_05\22\05220808.D

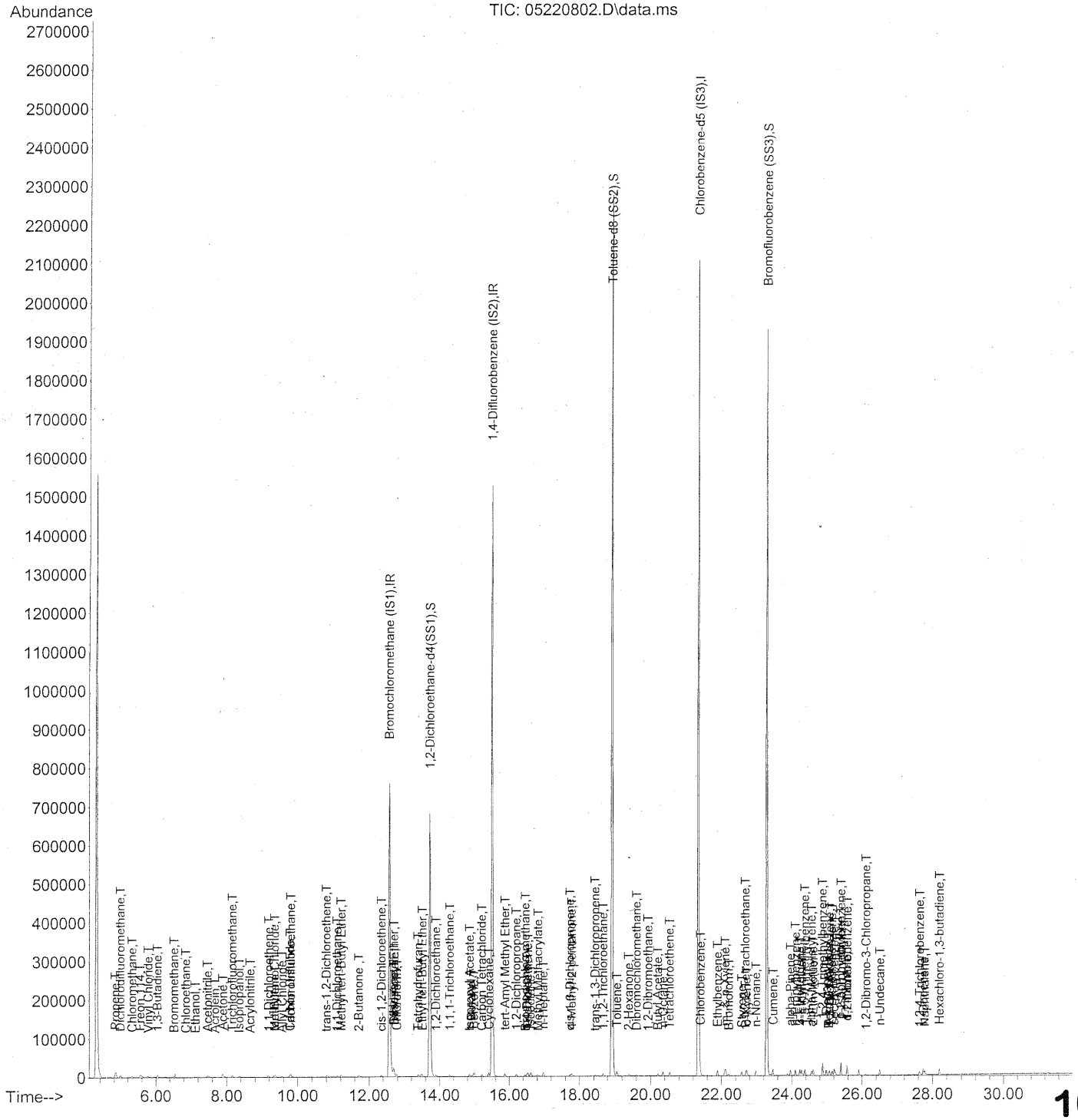
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 22 11:12 2008	May 22 10:30 2008	22 May 2008 3:56 am
2	0.5	May 22 11:12 2008	May 22 11:00 2008	22 May 2008 4:37 am
3	1.0	May 22 11:13 2008	May 22 11:05 2008	22 May 2008 5:18 am
4	5.0	May 22 11:13 2008	May 22 11:07 2008	22 May 2008 5:58 am
5	25	May 22 11:12 2008	May 22 11:09 2008	22 May 2008 6:39 am
6	50	May 22 11:18 2008	May 22 11:18 2008	22 May 2008 7:20 am
7	100	May 22 11:20 2008	May 22 11:19 2008	22 May 2008 8:01 am

R13052208.M Thu May 22 11:36:36 2008

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	391084	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1729052	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	807664	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	701754	22.375	ng		-0.03
Spiked Amount 25.000			Recovery =	89.48% ✓			
57) Toluene-d8 (SS2)	18.92	98	1842585	25.453	ng		-0.01
Spiked Amount 25.000			Recovery =	101.80% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	709723	28.489	ng		0.00
Spiked Amount 25.000			Recovery =	113.96% ✓			
Target Compounds							Qvalue
2) Propene	4.83	42	5061	0.156	ng	#	48
3) Dichlorodifluoromethane	4.99	85	7164	0.121	ng		95
4) Chloromethane	5.32	50	4719	0.096	ng		98
5) Freon 114	5.55	135	3603	0.125	ng		90
6) Vinyl Chloride	5.78	62	4379	0.095	ng		98
7) 1,3-Butadiene	6.04	54	2828	0.080	ng	#	64
8) Bromomethane	6.52	94	2671	0.121	ng		91
9) Chloroethane	6.85	64	2013	0.106	ng		89
10) Ethanol	7.13	45	2327	0.105	ng		69
11) Acetonitrile	7.46	41	9386m	0.162	ng		
12) Acrolein	7.67	56	1454	0.093	ng		88
13) Acetone	7.89	58	5705	0.264	ng		88
14) Trichlorofluoromethane	8.16	101	5976	0.129	ng		93
15) Isopropanol	8.36	45	9307m	0.127	ng		
16) Acrylonitrile	8.66	53	3038m	0.090	ng		
17) 1,1-Dichloroethene	9.18	96	2673	0.124	ng	#	83
18) tert-Butanol	9.35	59	6738m	0.111	ng		
19) Methylene Chloride	9.36	84	3346	0.135	ng		94
20) Allyl Chloride	9.56	41	2408	0.072	ng	#	62
21) Trichlorotrifluoroethane	9.81	151	3176m	0.160	ng		
22) Carbon Disulfide	9.78	76	11562	0.125	ng		99
23) trans-1,2-Dichloroethene	10.80	61	4305	0.114	ng		83
24) 1,1-Dichloroethane	11.10	63	4824	0.110	ng		79
25) Methyl tert-Butyl Ether	11.21	73	8652	0.120	ng		79
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	11.71	72	1992	0.131	ng		95
28) cis-1,2-Dichloroethene	12.34	61	4126	0.116	ng		75
29) Diisopropyl Ether	12.70	87	2307	0.116	ng	#	69
30) Ethyl Acetate	12.71	61	986m	0.104	ng		
31) n-Hexane	12.70	57	5268	0.107	ng		99

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.78	83	5431	0.149	ng		92
34) Tetrahydrofuran	13.39	72	1773	0.117	ng	#	84
35) Ethyl tert-Butyl Ether	13.50	87	2951	0.113	ng	#	71
36) 1,2-Dichloroethane	13.89	62	4343	0.120	ng		90
38) 1,1,1-Trichloroethane	14.29	97	4950	0.137	ng		88
39) Isopropyl Acetate	14.86	61	1308	0.083	ng	#	10
40) 1-Butanol	14.91	56	1741	0.074	ng		96
41) Benzene	14.98	78	11869	0.129	ng		95
42) Carbon Tetrachloride	15.21	117	3678	0.121	ng		99
43) Cyclohexane	15.42	84	4351	0.128	ng	#	76
44) tert-Amyl Methyl Ether	15.88	73	7209	0.110	ng		95
45) 1,2-Dichloropropane	16.20	63	2736	0.104	ng		97
46) Bromodichloromethane	16.46	83	3490	0.112	ng		89
47) Trichloroethene	16.53	130	4177	0.185	ng		94
48) 1,4-Dioxane	16.51	88	2194m	0.135	ng		
49) Isooctane	16.61	57	12078	0.111	ng		80
50) Methyl Methacrylate	16.82	100	897m	0.108	ng		
51) n-Heptane	16.98	71	2634	0.104	ng	#	82
52) cis-1,3-Dichloropropene	17.73	75	3506	0.098	ng		91
53) 4-Methyl-2-pentanone	17.78	58	2473	0.099	ng		88
54) trans-1,3-Dichloropropene	18.44	75	3250	0.105	ng		90
55) 1,1,2-Trichloroethane	18.67	97	2567	0.116	ng		87
58) Toluene	19.06	91	12306	0.135	ng		98
59) 2-Hexanone	19.38	43	6301	0.093	ng		79
60) Dibromochloromethane	19.61	129	2754	0.126	ng		80
61) 1,2-Dibromoethane	19.93	107	2806	0.131	ng		92
62) Butyl Acetate	20.20	43	6226	0.092	ng		86
63) n-Octane	20.35	57	2319	0.109	ng		83
64) Tetrachloroethene	20.53	166	3819	0.168	ng		82
65) Chlorobenzene	21.41	112	7983	0.142	ng		95
66) Ethylbenzene	21.89	91	13068	0.129	ng		92
67) m- & p-Xylene	22.10	91	20087	0.296	ng		91
68) Bromoform	22.21	173	2452	0.163	ng		90
69) Styrene	22.58	104	7400	0.126	ng		96
70) o-Xylene	22.71	91	10499	0.144	ng		85
71) n-Nonane	22.98	43	5563	0.095	ng		90
72) 1,1,2,2-Tetrachloroethane	22.68	83	3449	0.099	ng		85
74) Cumene	23.47	105	12486	0.135	ng		99
75) alpha-Pinene	23.96	93	5861	0.119	ng		76
76) n-Propylbenzene	24.10	91	15192	0.122	ng		97
77) 3-Ethyltoluene	24.23	105	11331	0.112	ng		99
78) 4-Ethyltoluene	24.28	105	11881	0.128	ng		98
79) 1,3,5-Trimethylbenzene	24.37	105	11413	0.138	ng		96

1078

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

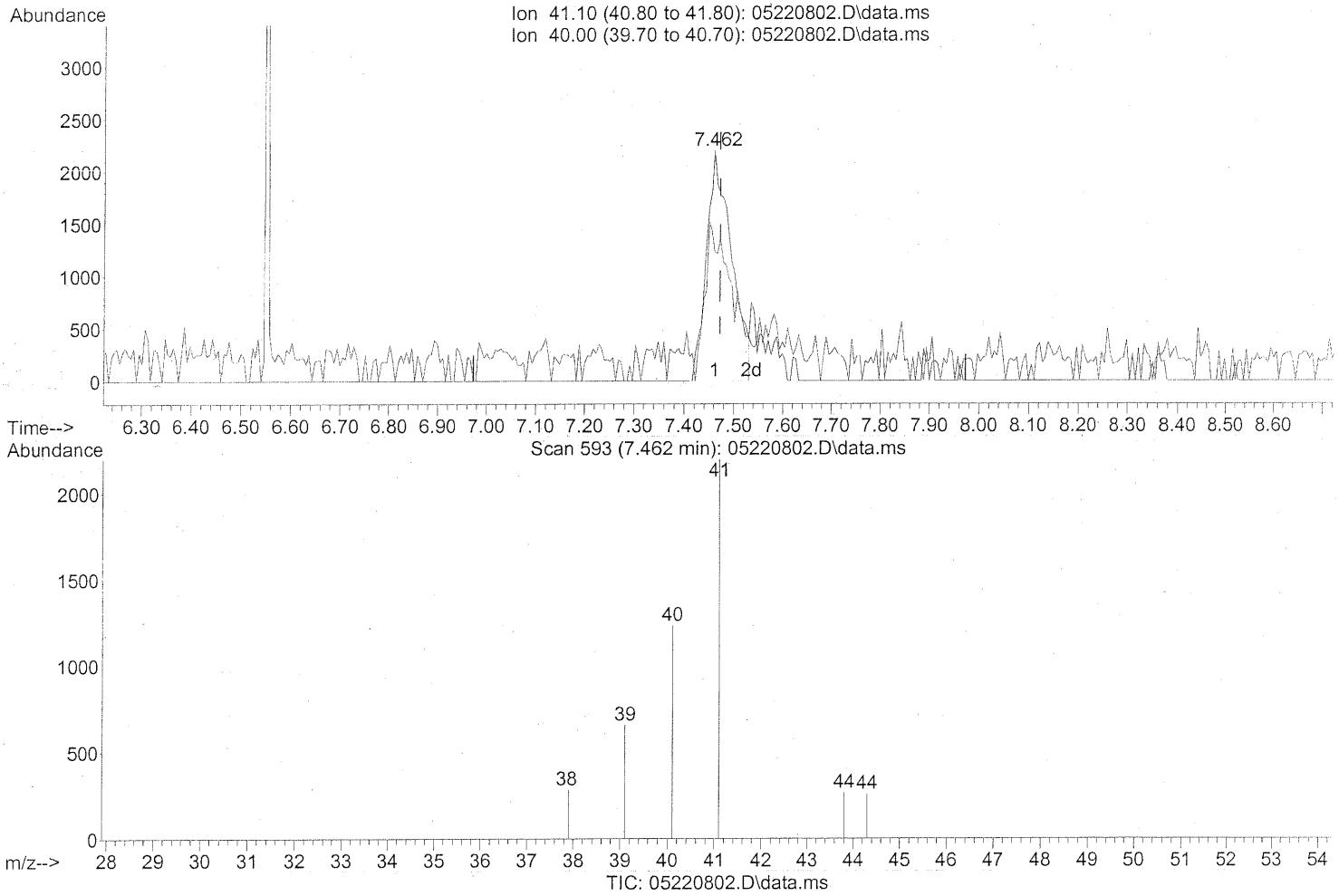
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	4915	0.112	ng		97
81) 2-Ethyltoluene	24.61	105	11131	0.110	ng		87
82) 1,2,4-Trimethylbenzene	24.88	105	10550	0.113	ng		98
83) n-Decane	24.98	57	4936	0.096	ng		78
84) Benzyl Chloride	25.05	91	4673	0.073	ng		85
85) 1,3-Dichlorobenzene	25.08	146	6174	0.122	ng		98
86) 1,4-Dichlorobenzene	25.15	146	6453	0.133	ng		98
87) sec-Butylbenzene	25.21	105	13141	0.120	ng		99
88) p-Isopropyltoluene	25.40	119	11350	0.119	ng		89
89) 1,2,3-Trimethylbenzene	25.41	105	9730	0.106	ng		99
90) 1,2-Dichlorobenzene	25.58	146	6021	0.116	ng		97
91) d-Limonene	25.58	68	3768	0.089	ng		86
92) 1,2-Dibromo-3-Chloropr...	26.11	157	1294	0.094	ng	#	79
93) n-Undecane	26.50	57	5074	0.094	ng		82
94) 1,2,4-Trichlorobenzene	27.64	180	4707	0.147	ng		98
95) Naphthalene	27.78	128	13348	0.129	ng		90
96) n-Dodecane	27.74	57	4947	0.090	ng		78
97) Hexachloro-1,3-butadiene	28.19	225	3048	0.147	ng		89

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

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(11) Acetonitrile (T)

7.462min (-0.011) 0.13ng

response 7728

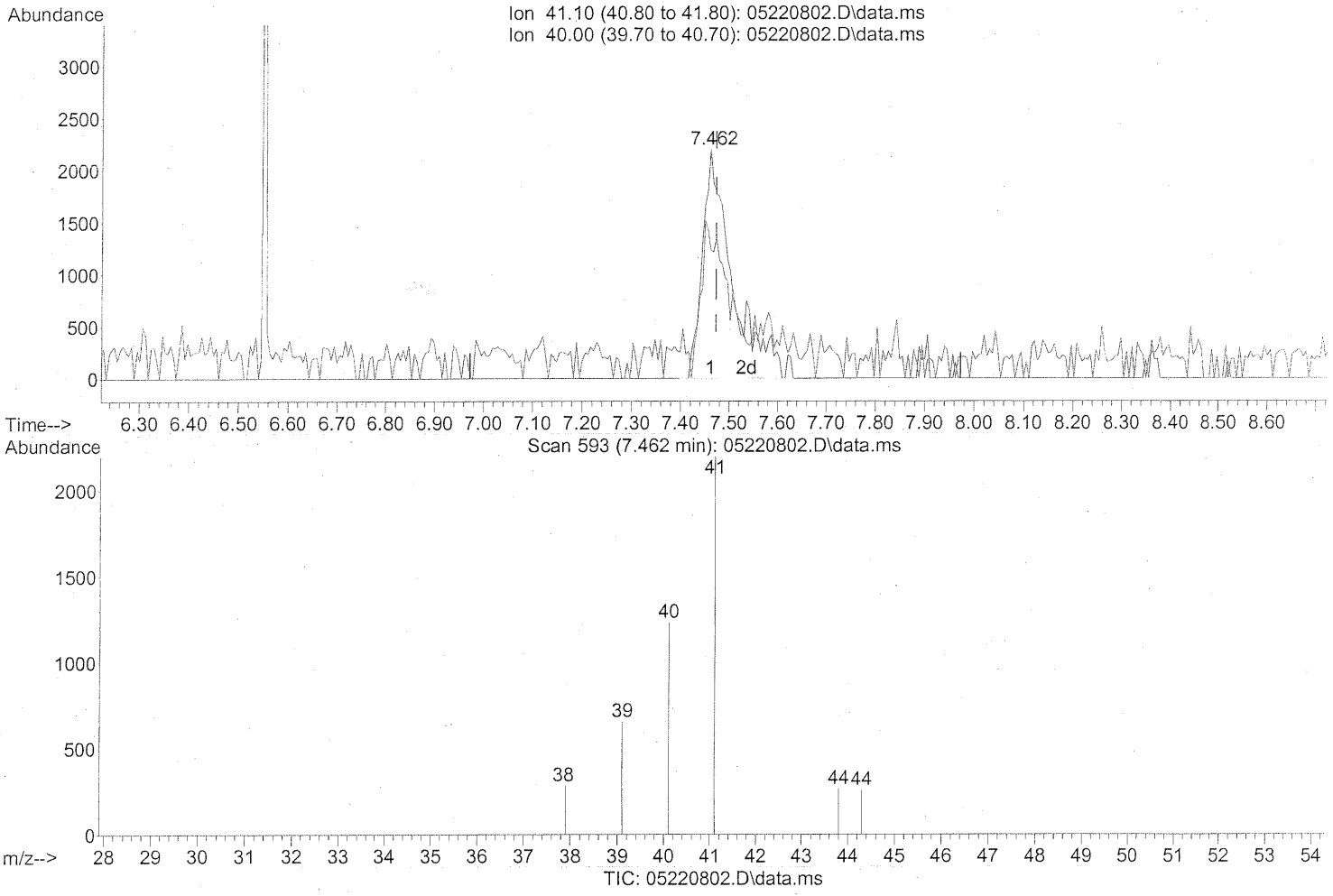
Ion	Exp%	Act%
41.10	100	100
40.00	51.40	76.95#
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

1080

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(11) Acetonitrile (T)

7.462min (-0.011) 0.16ng m

response 9386

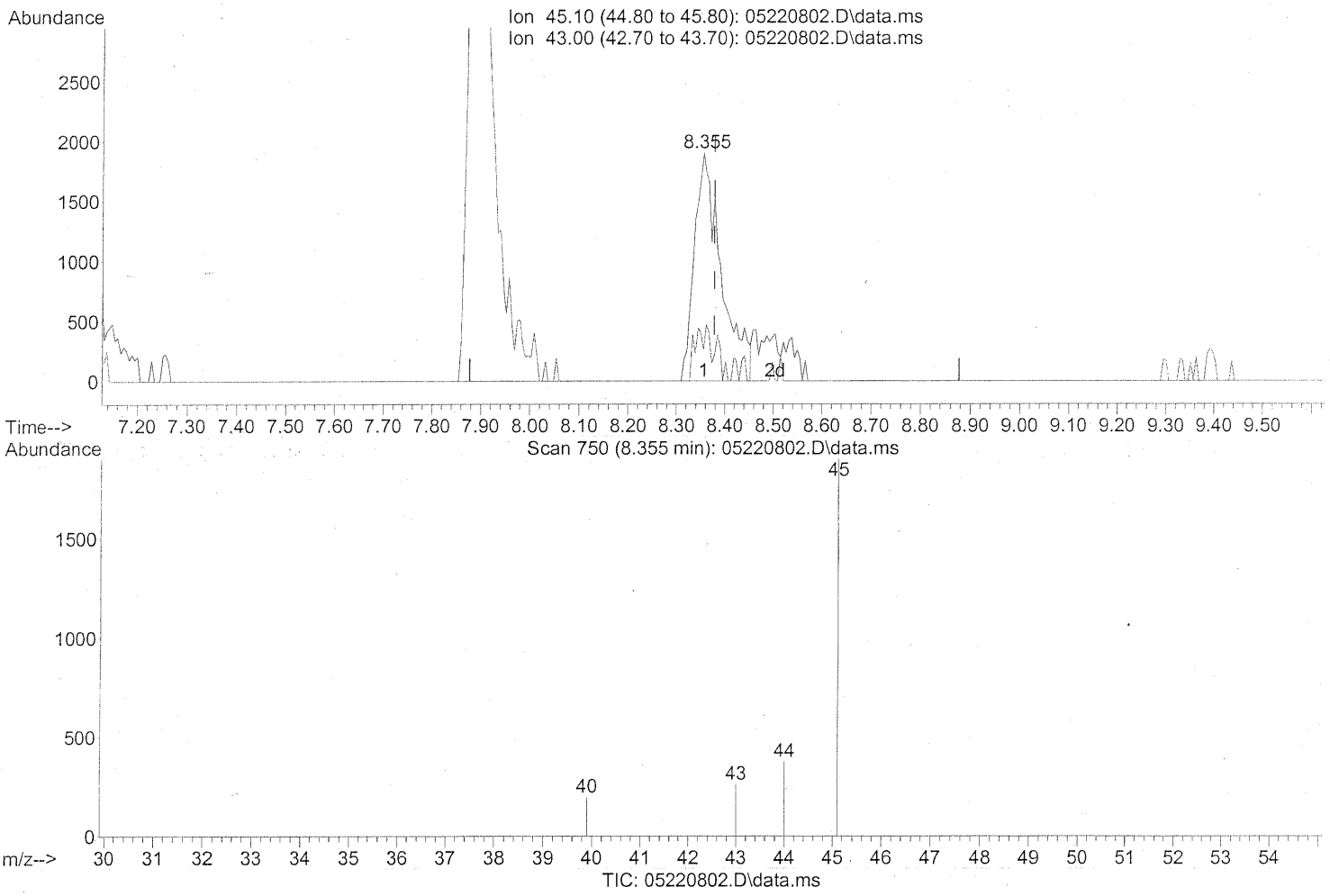
Ion	Exp%	Act%
41.10	100	100
40.00	51.40	63.36
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
5/22/08
Em 5/22/08

1081

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.355min (-0.023) 0.10ng

response 7356

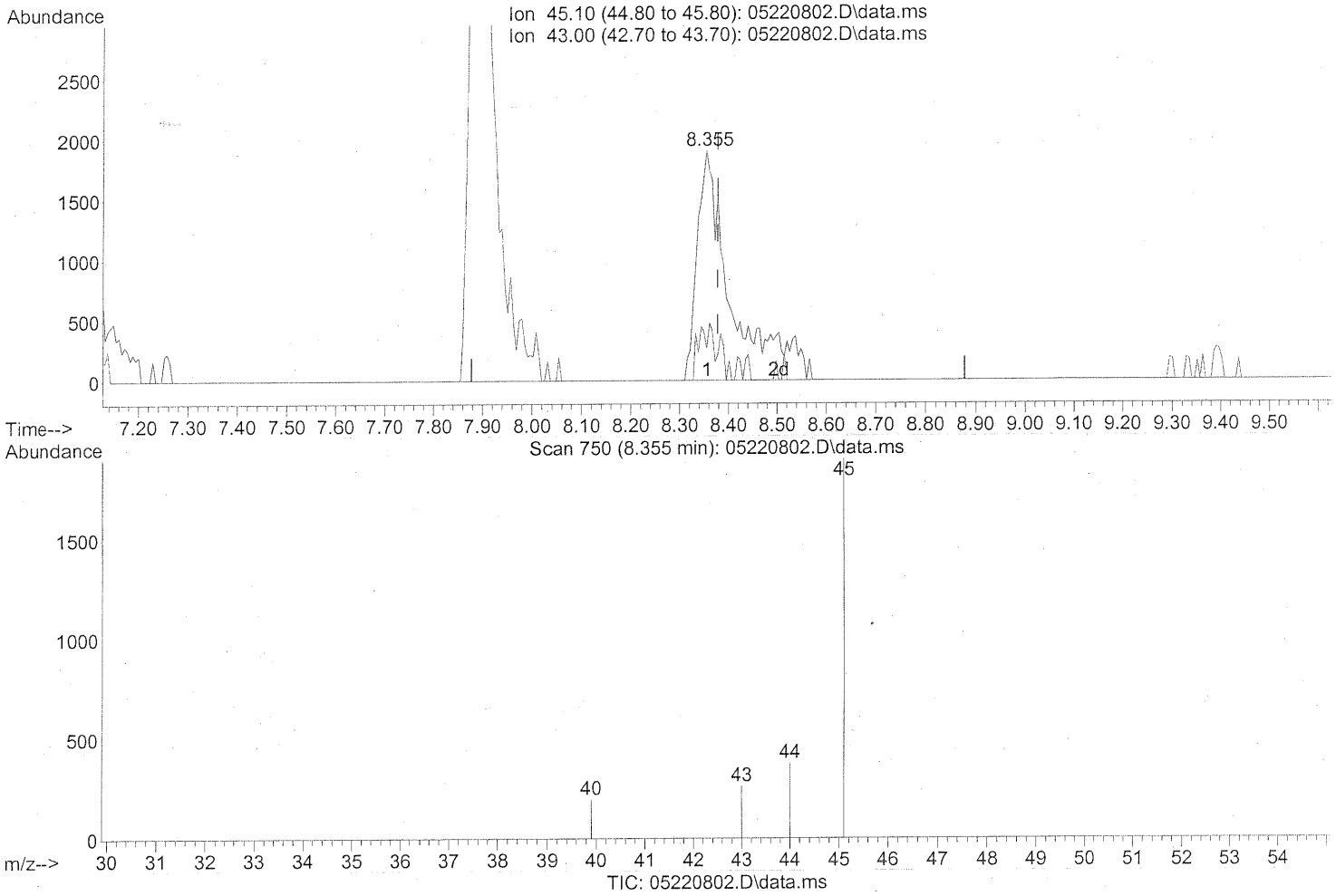
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	12.83
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

1082

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.355min (-0.023) 0.13ng m

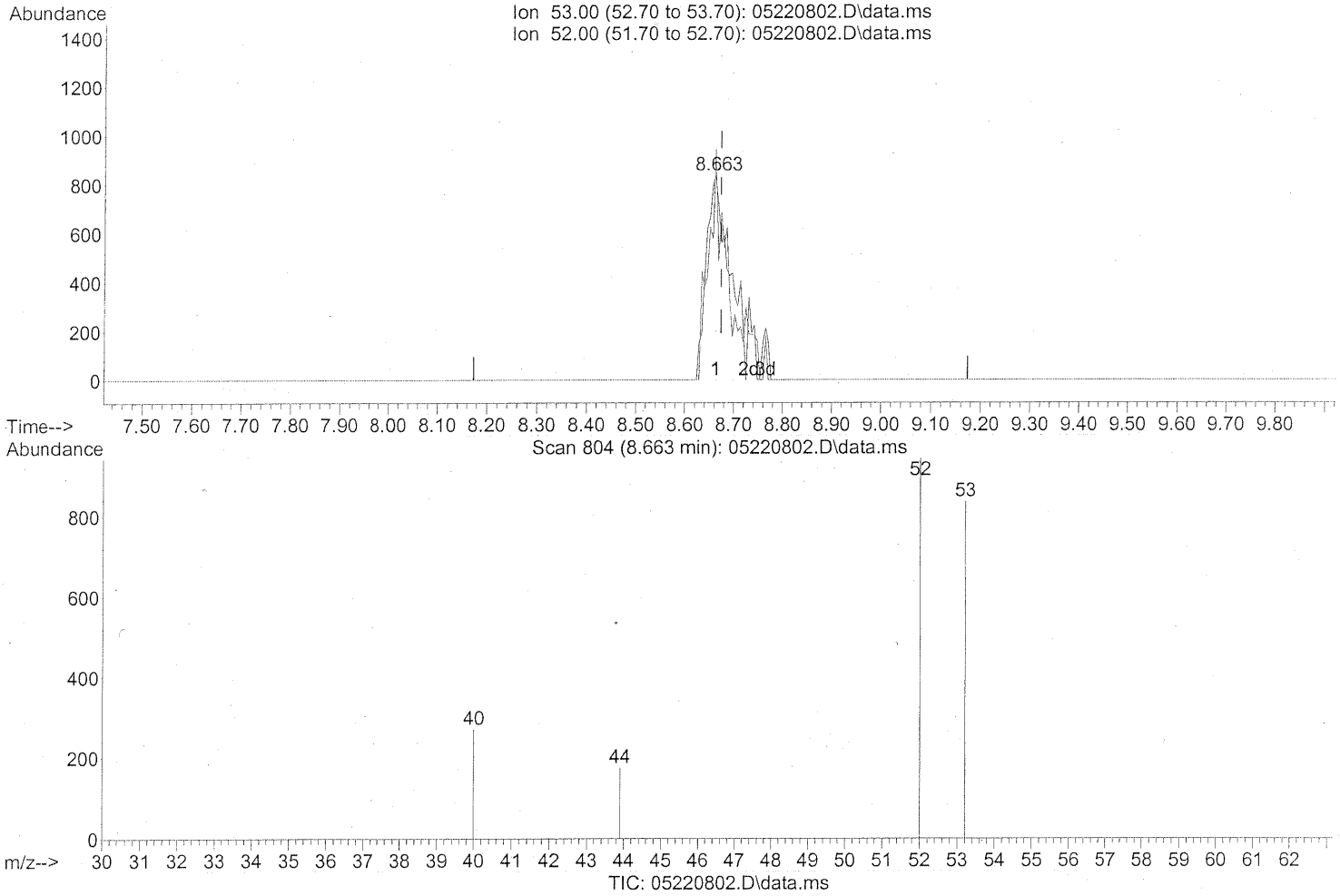
response 9307

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	10.14
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
& 05/22/08
Em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.663min (-0.011) 0.08ng

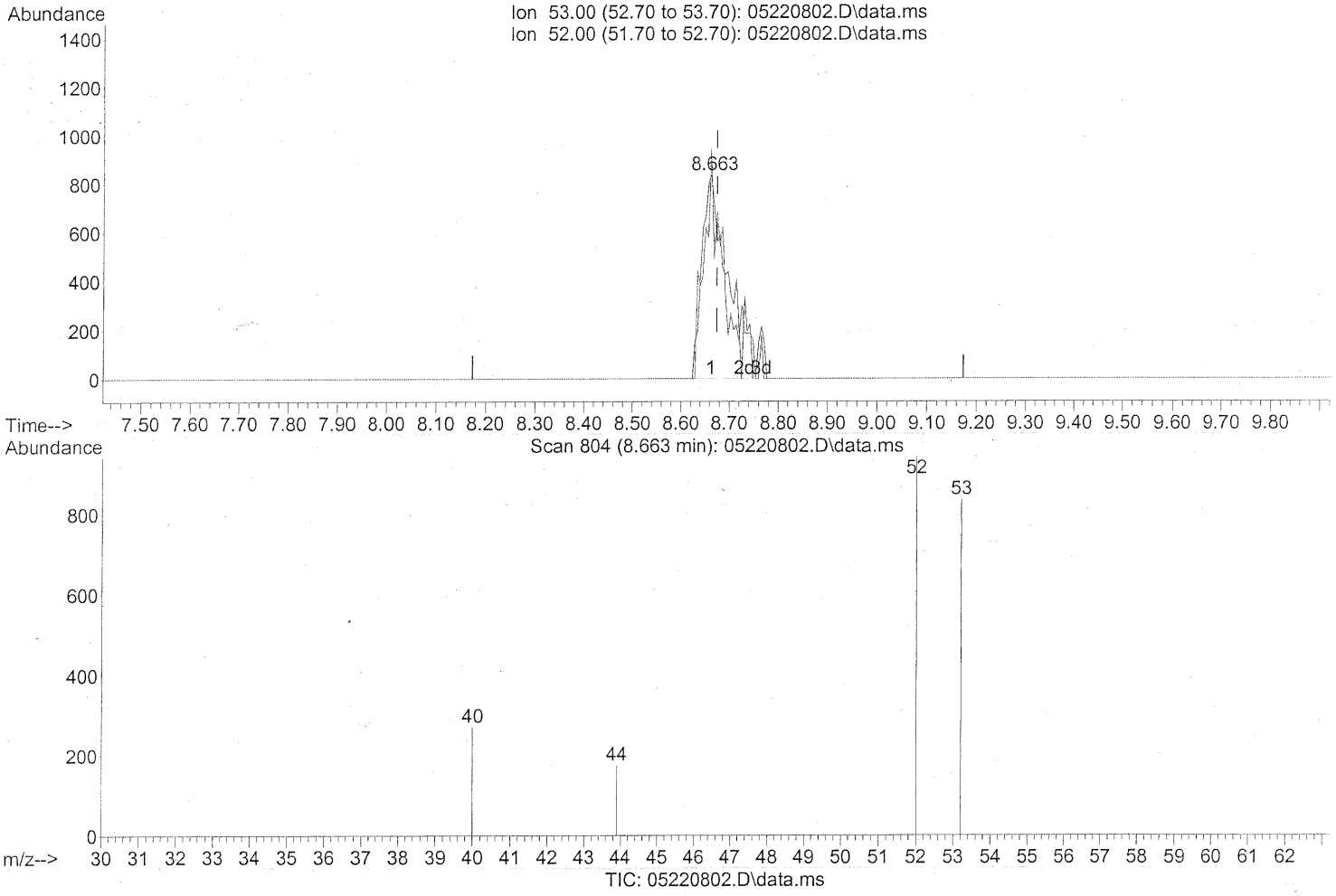
response 2779

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	87.08
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.663min (-0.011) 0.09ng m

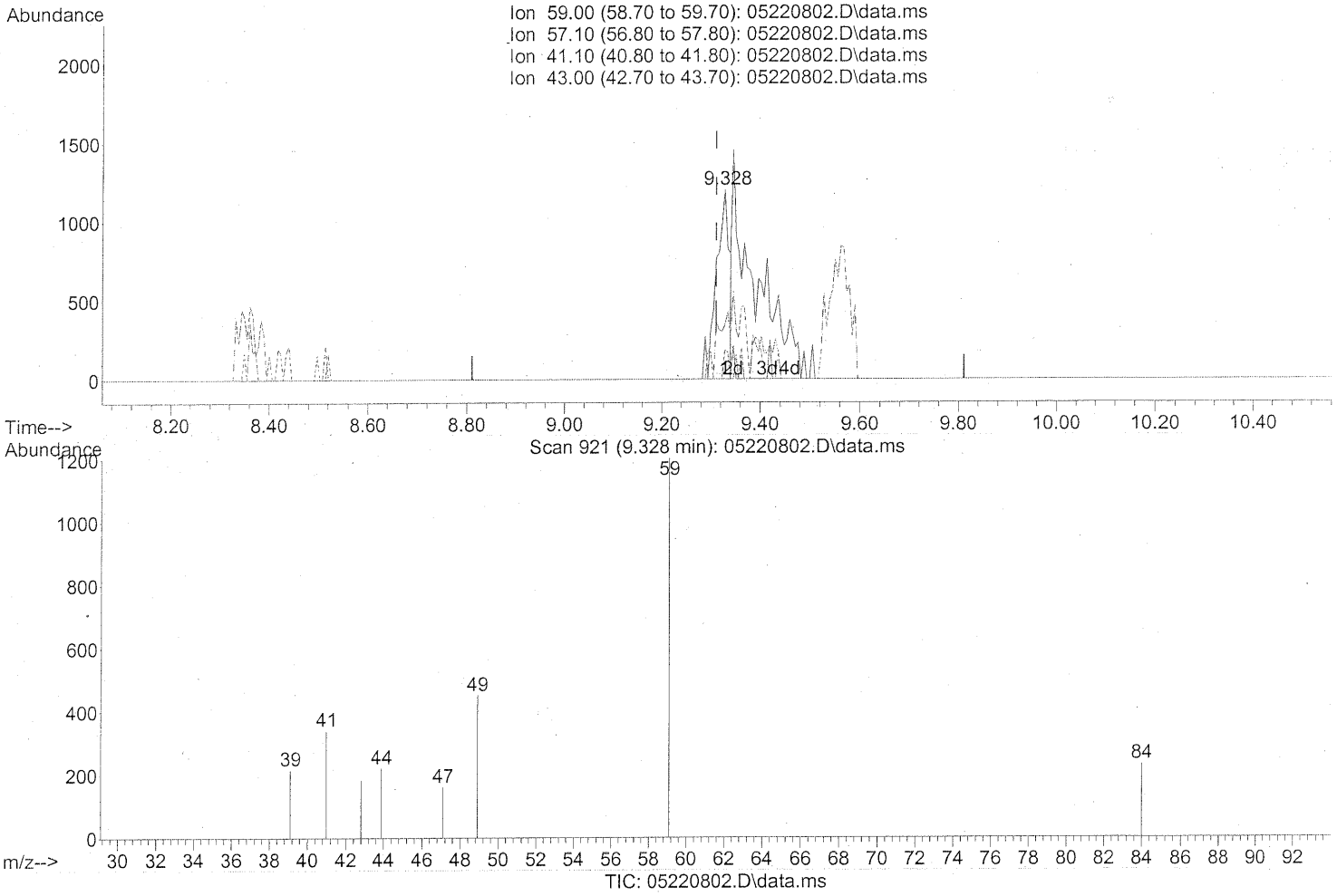
response 3038

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	79.66
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
BS 05/22/08
BM 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.328min (+0.017) 0.04ng

response 2180

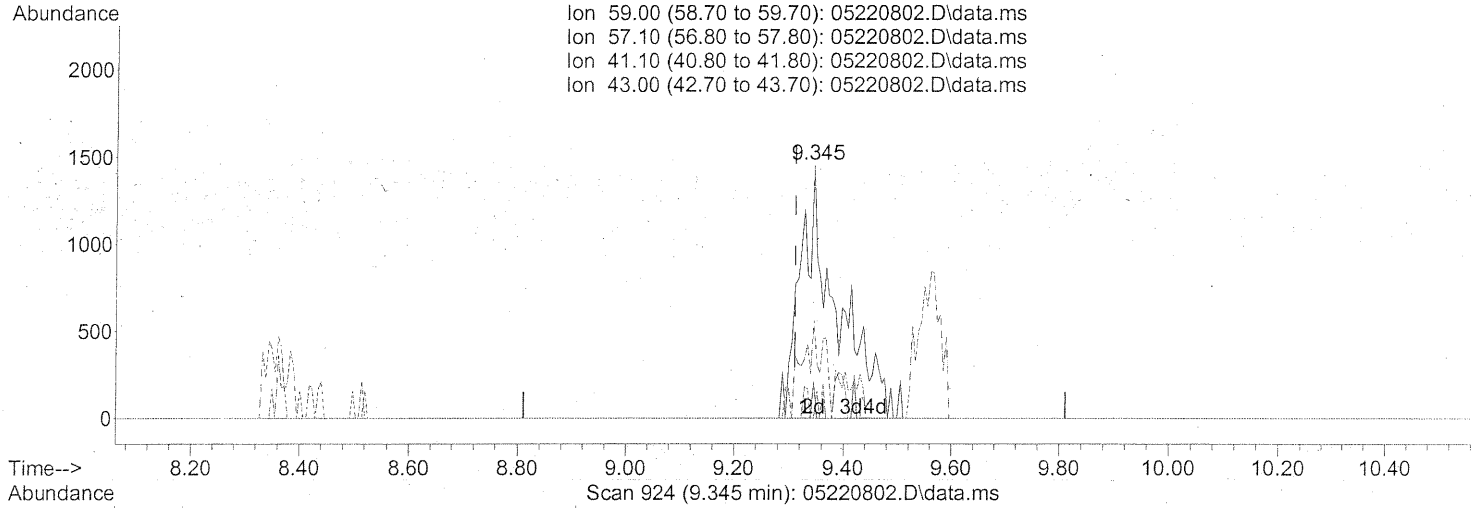
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	31.33
43.00	12.30	5.55

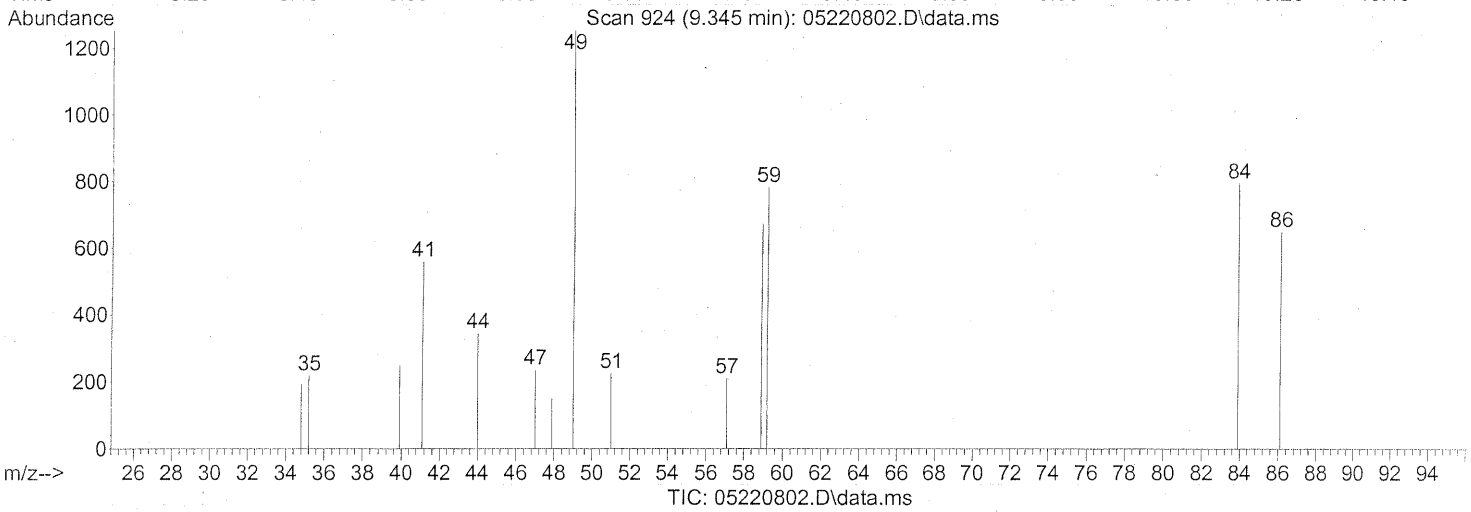
SPLIT PEAK

1086

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(18) tert-Butanol (T)

9.345min (+0.034) 0.11ng m

response 6738

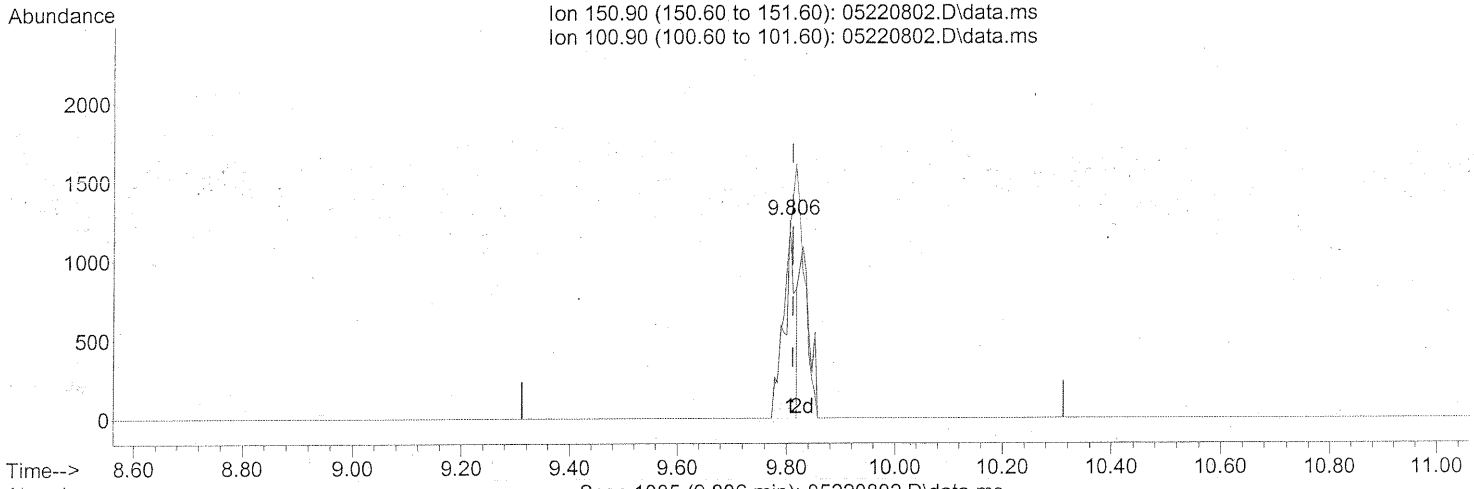
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	10.14
43.00	12.30	1.80

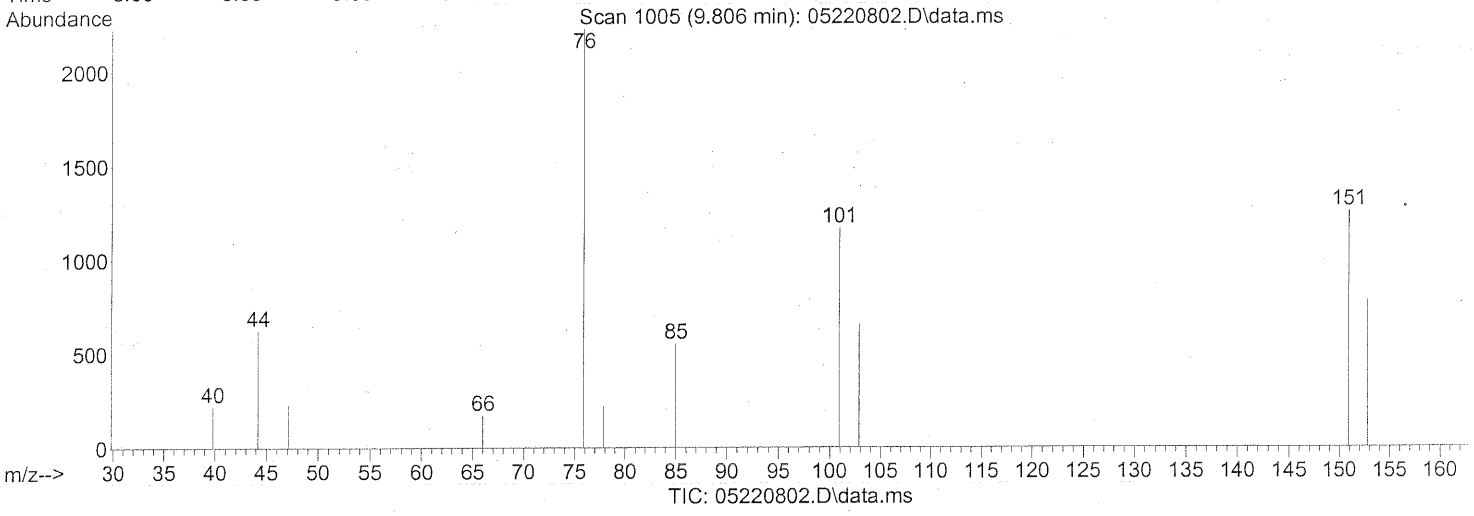
INT. THE WHOLE PEAK
5/22/08
BM 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.09ng

response 1705

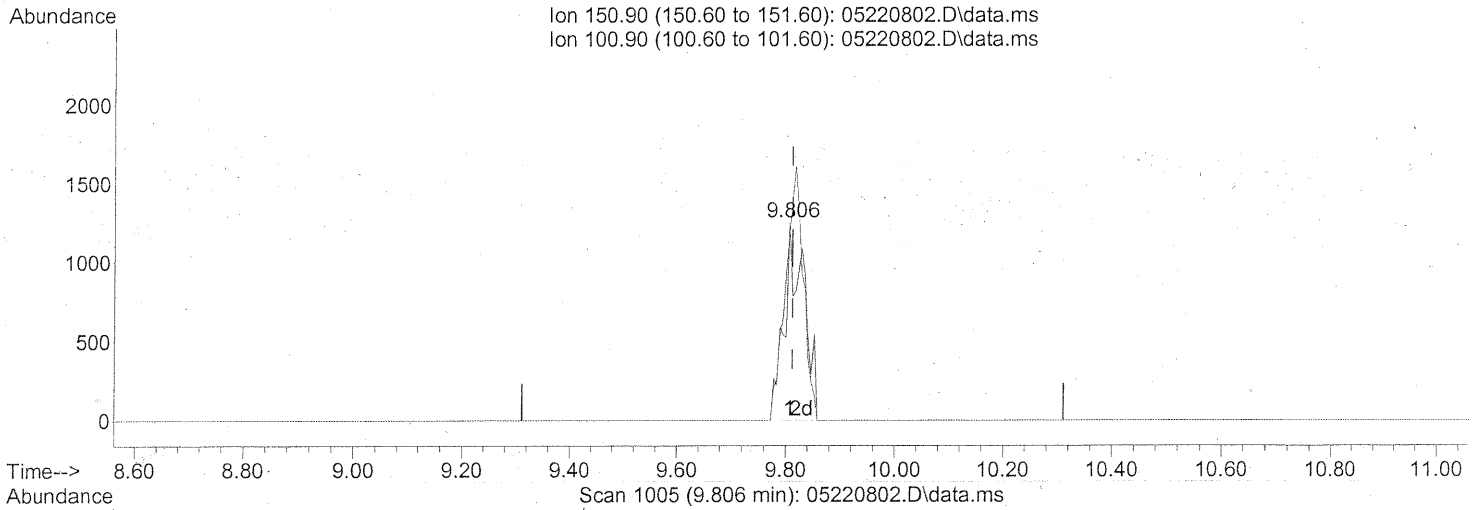
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

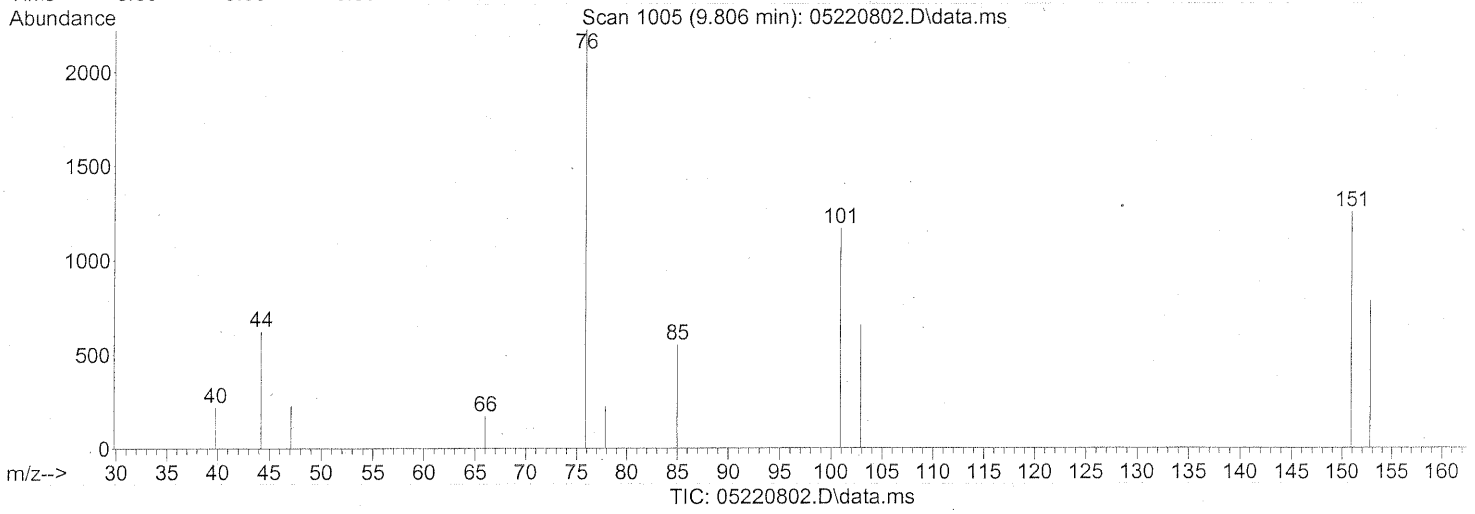
SPLIT PEAK

1088

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.16ng m

response 3176

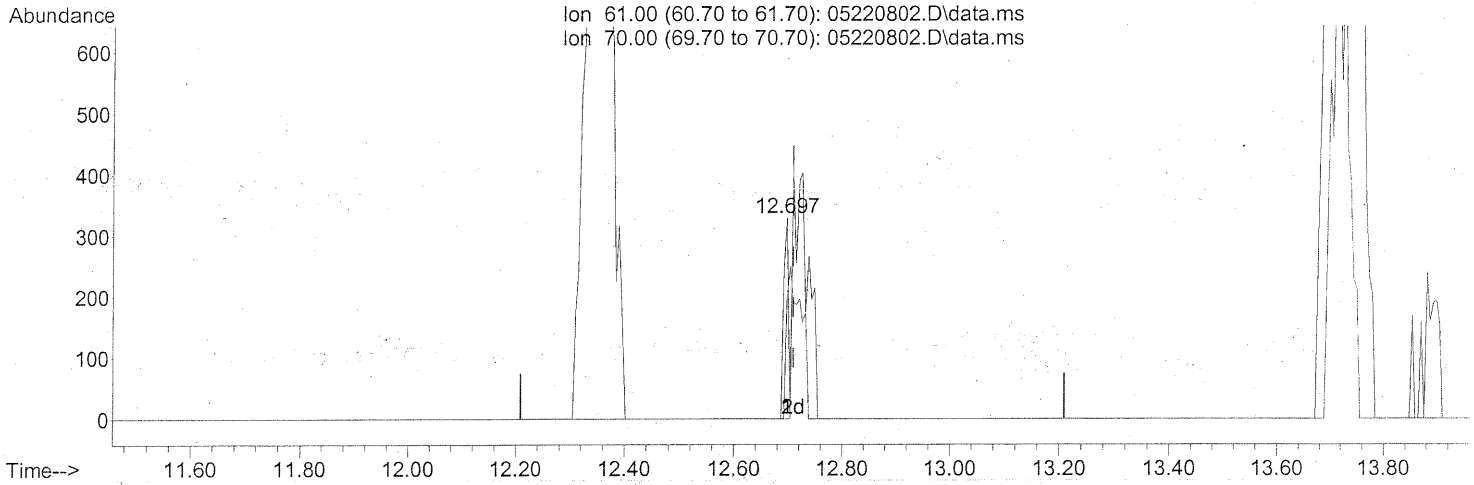
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

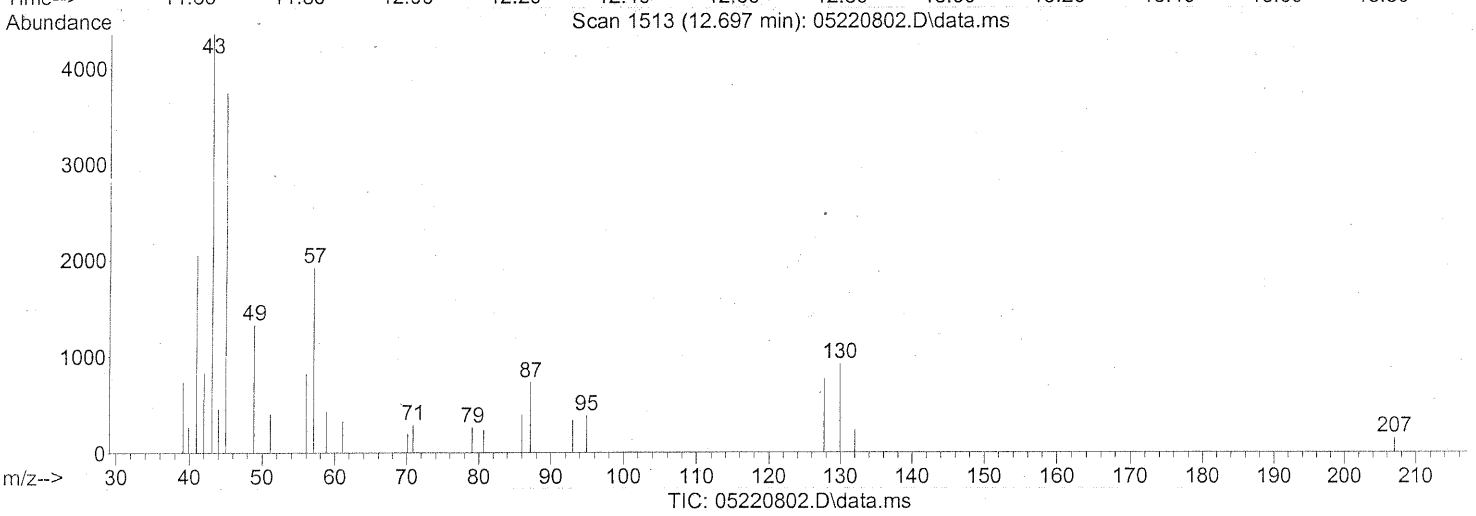
INT. THE WHOLE PEAK
5/22/08
5/22/08

1089

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(30) Ethyl Acetate (T)

12.697min (-0.012) 0.02ng

response 195

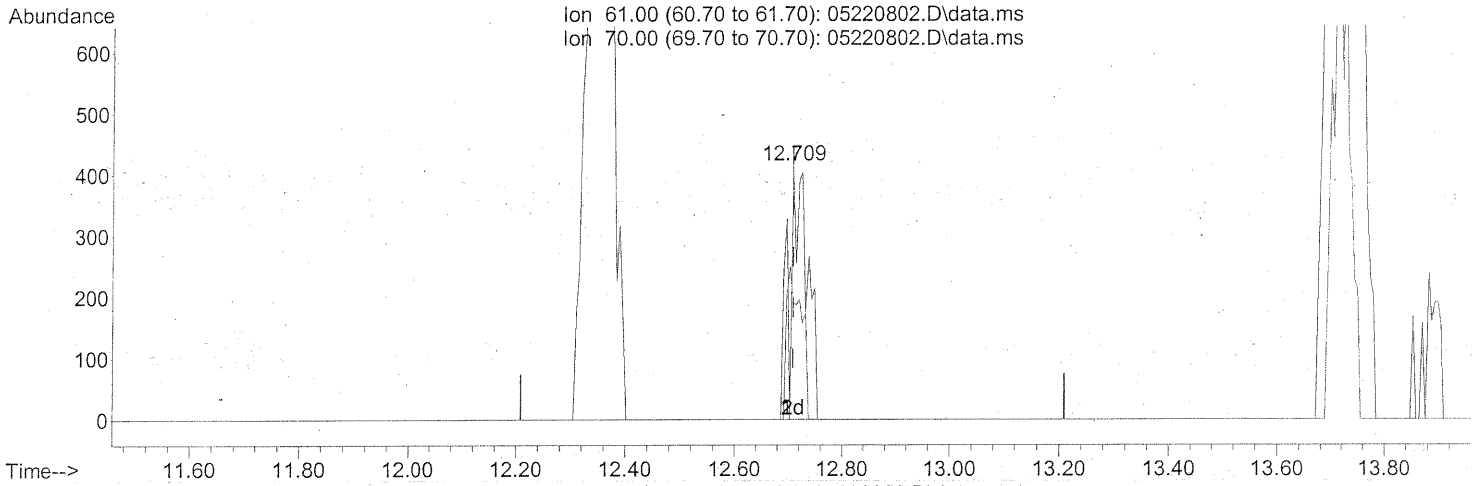
Ion	Exp%	Act%
61.00	100	100
70.00	58.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

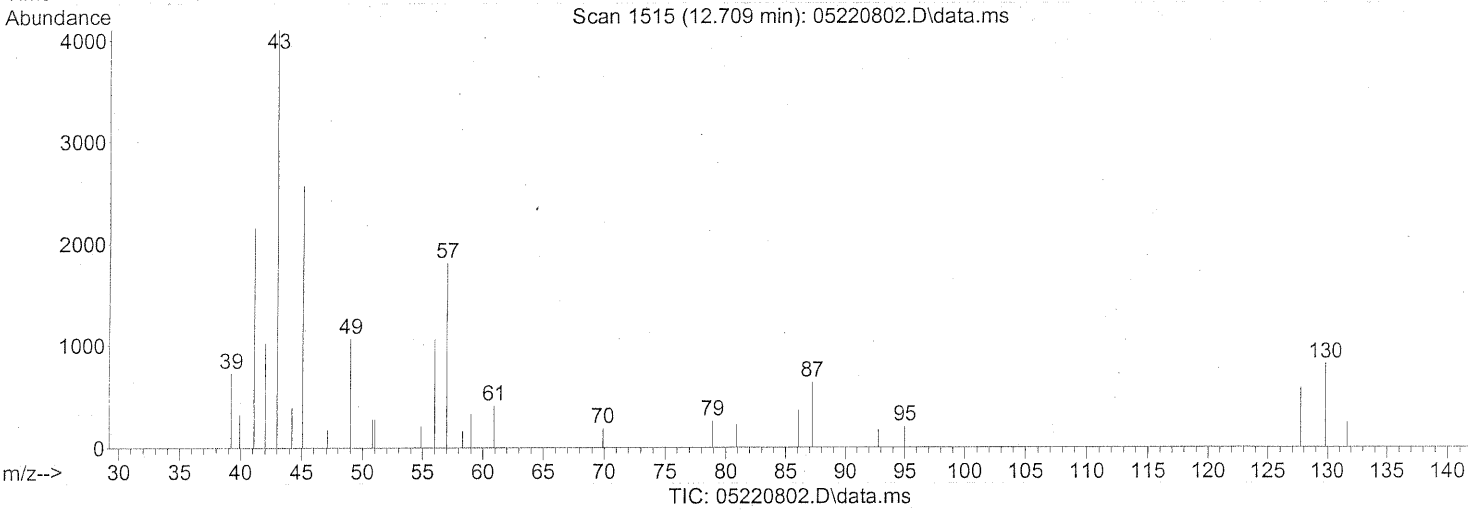
SPLIT PEAK

1090

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(30) Ethyl Acetate (T)

12.709min (-0.000) 0.10ng m

response 986

Ion	Exp%	Act%
61.00	100	100
70.00	58.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

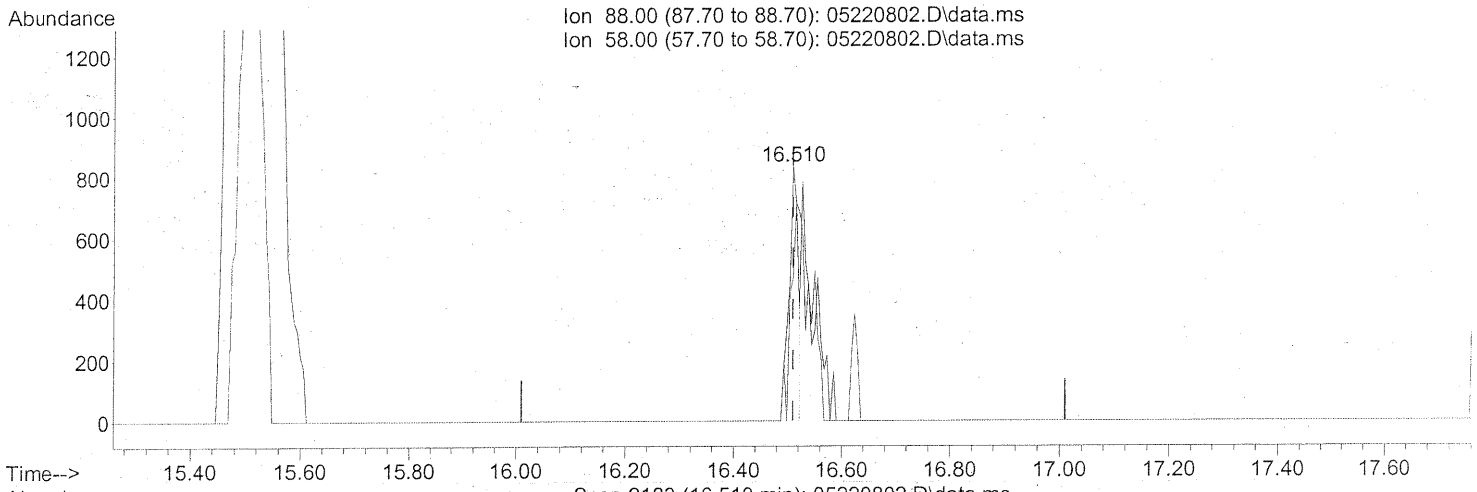
INT. THE WHOLE PEAK
B 05/22/08
Em 5/22/08

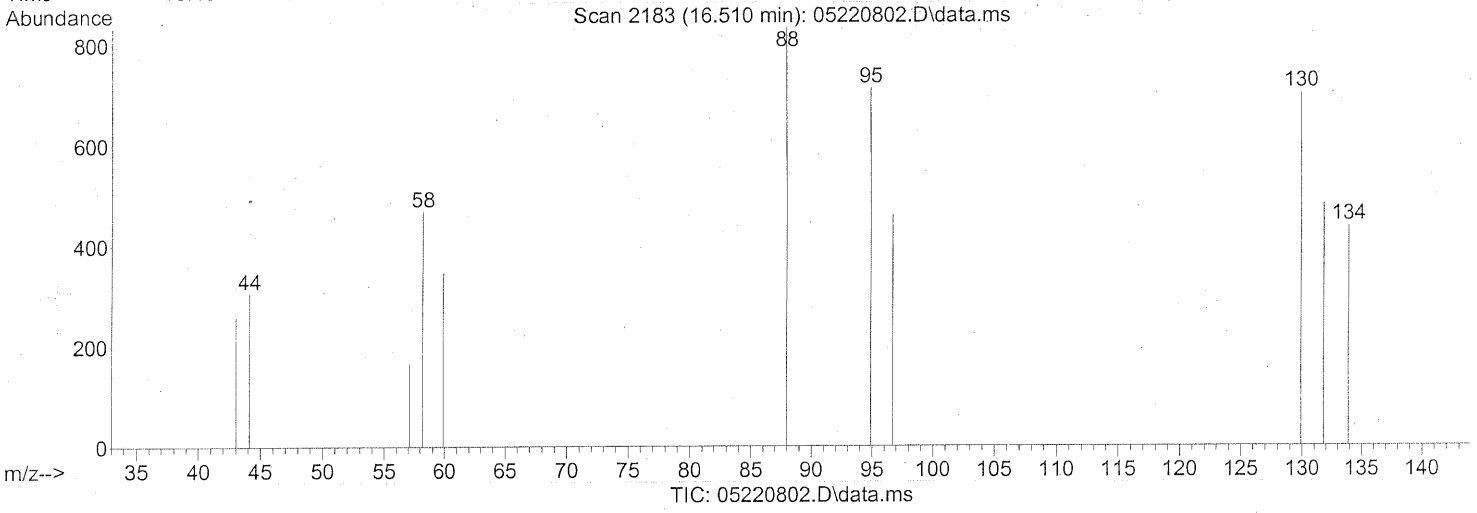
1091

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(48) 1,4-Dioxane (T)

16.510min (+0.000) 0.06ng

response 974

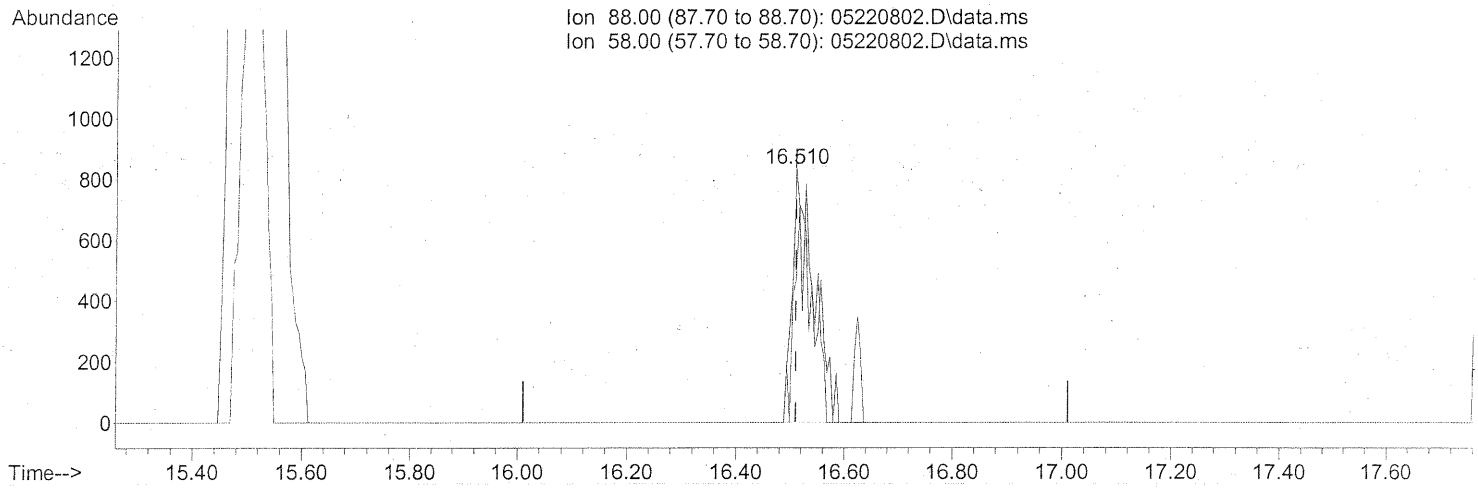
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	180.70#
0.00	0.00	0.00
0.00	0.00	0.00

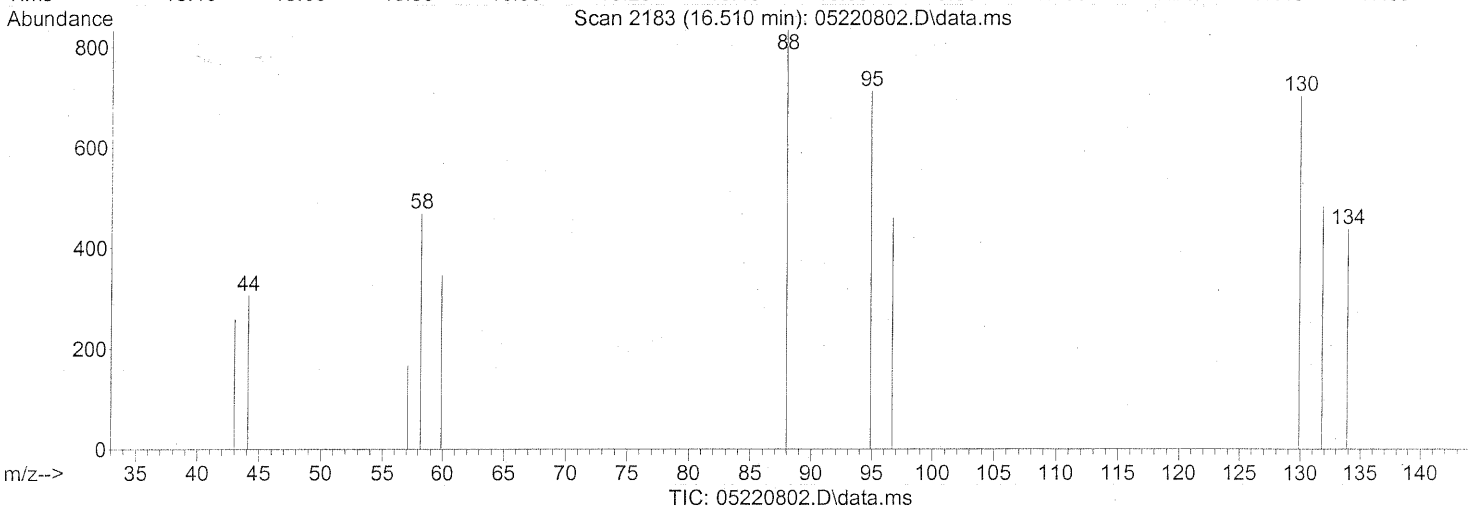
SPLIT PEAK

1092

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(48) 1,4-Dioxane (T)

16.510min (+0.000) 0.14ng m

response 2194

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	80.22
0.00	0.00	0.00
0.00	0.00	0.00

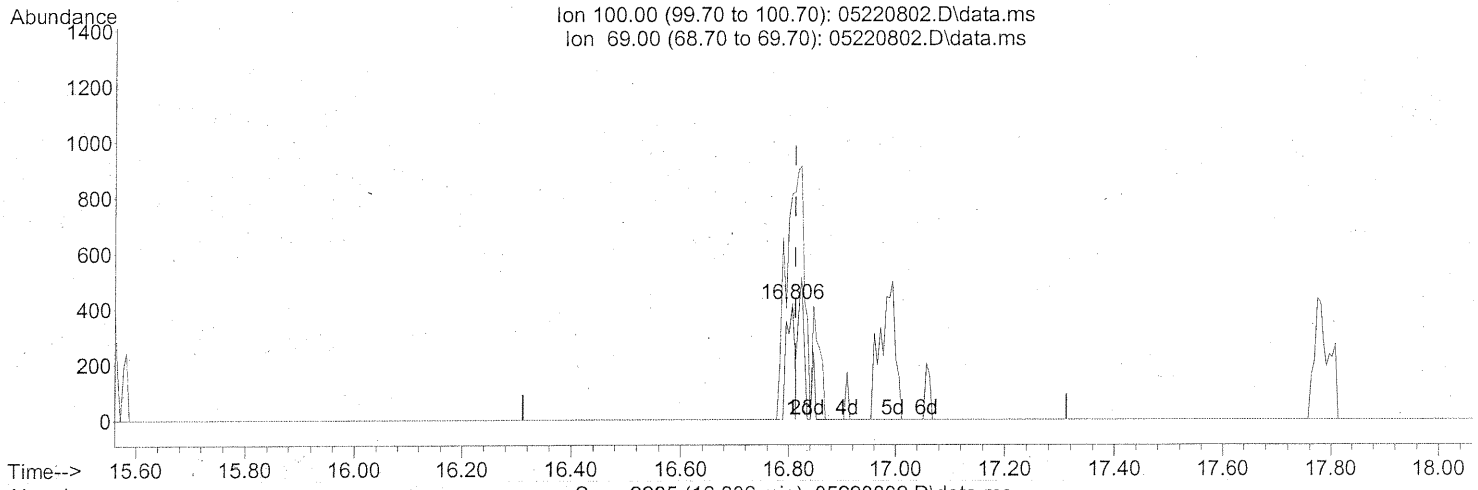
INT. THE WHOLE PEAK
05/22/08
Em 5/22/08

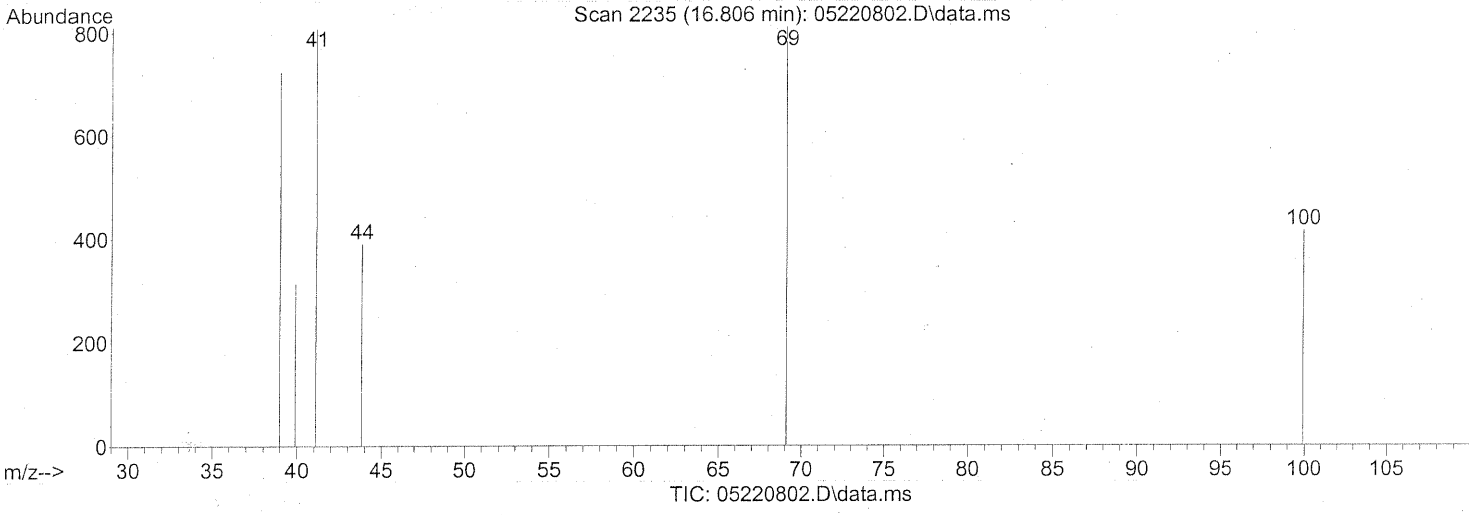
1093

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(50) Methyl Methacrylate (T)

16.806min (-0.006) 0.05ng

response 431

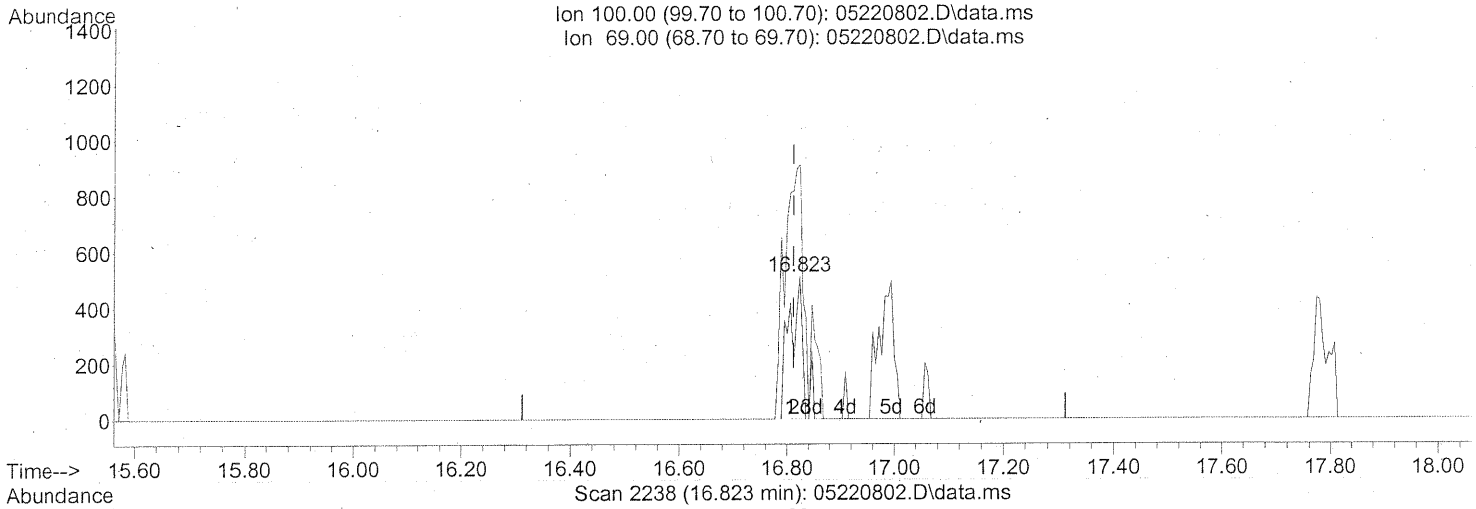
Ion	Exp%	Act%
100.00	100	100
69.00	259.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

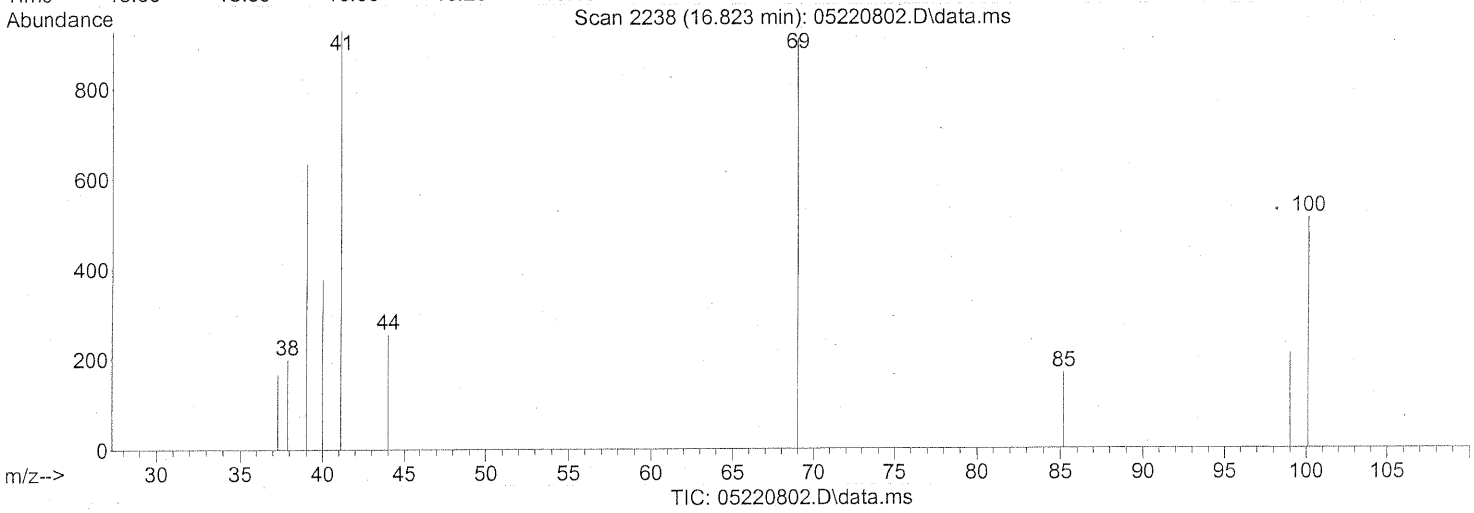
SPLIT PEAK

1094

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220802.D\data.ms

(50) Methyl Methacrylate (T)

16.823min (+0.011) 0.11ng m

response 897

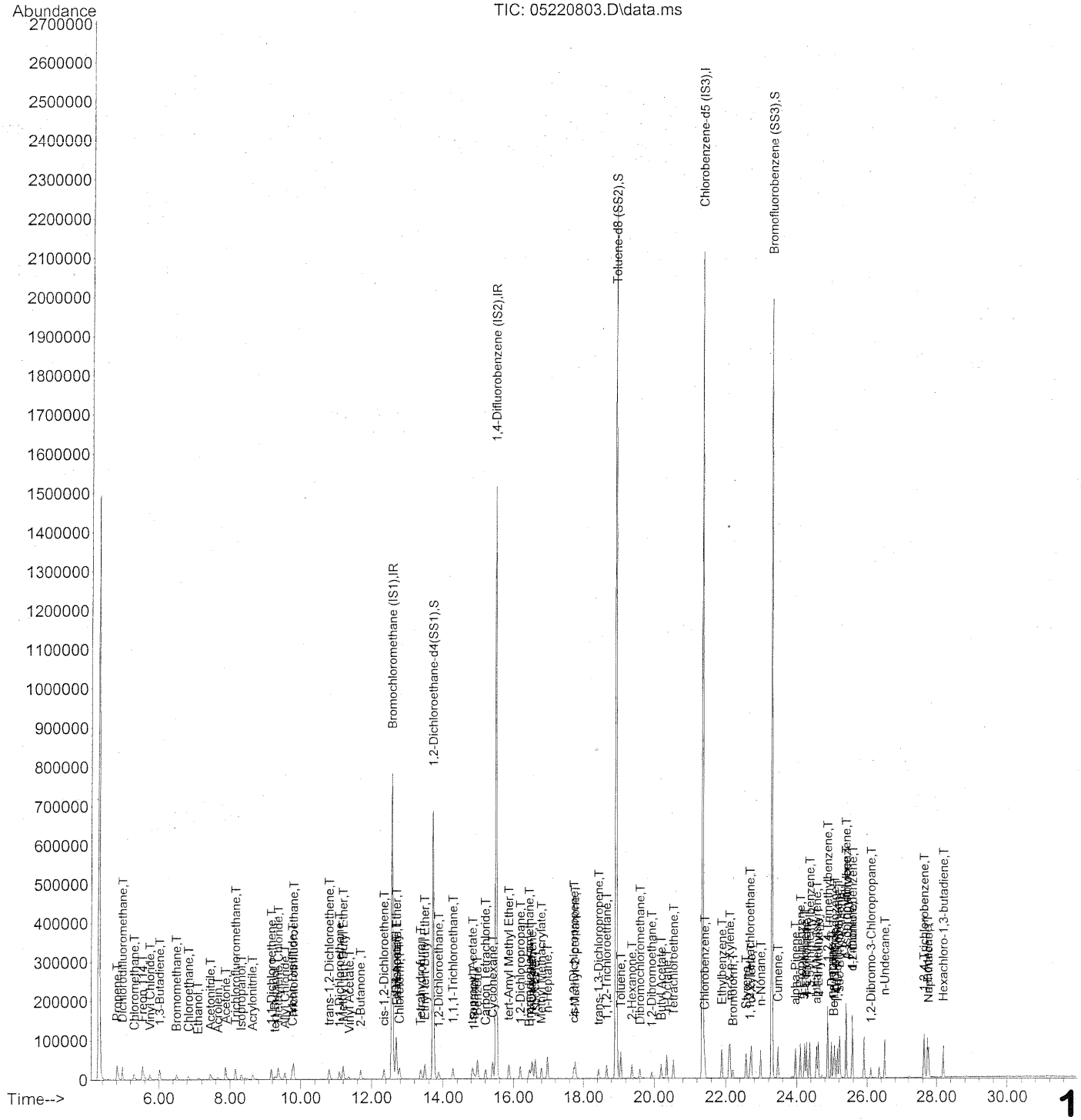
Ion	Exp%	Act%
100.00	100	100
69.00	259.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK
5/22/08
5/22/08

1095

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	390197	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1721246	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	802715	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	697916	22.303	ng		-0.03
Spiked Amount 25.000			Recovery =	89.20%	✓		
57) Toluene-d8 (SS2)	18.92	98	1826728	25.389	ng		-0.01
Spiked Amount 25.000			Recovery =	101.56%	✓		
73) Bromofluorobenzene (SS3)	23.29	174	718304	29.011	ng		0.00
Spiked Amount 25.000			Recovery =	116.04%	✓		
Target Compounds							Qvalue
2) Propene	4.82	42	18055	0.559	ng	#	78
3) Dichlorodifluoromethane	4.97	85	34472	0.585	ng		97
4) Chloromethane	5.30	50	24413	0.496	ng		99
5) Freon 114	5.54	135	17859	0.619	ng		97
6) Vinyl Chloride	5.74	62	21616	0.472	ng		96
7) 1,3-Butadiene	6.02	54	16619	0.469	ng	#	71
8) Bromomethane	6.49	94	12058	0.548	ng		100
9) Chloroethane	6.84	64	10877	0.573	ng		99
10) Ethanol	7.10	45	10775m	0.489	ng		
11) Acetonitrile	7.45	41	30763	0.531	ng		96
12) Acrolein	7.66	56	8102	0.521	ng		97
13) Acetone	7.88	58	17001	0.787	ng	#	67
14) Trichlorofluoromethane	8.16	101	29926	0.647	ng		99
15) Isopropanol	8.32	45	40731m	0.557	ng		
16) Acrylonitrile	8.63	53	17611	0.525	ng		89
17) 1,1-Dichloroethene	9.17	96	13954	0.648	ng	#	79
18) tert-Butanol	9.27	59	34271m	0.565	ng		
19) Methylene Chloride	9.36	84	14738	0.594	ng		90
20) Allyl Chloride	9.56	41	16325	0.492	ng		98
21) Trichlorotrifluoroethane	9.81	151	14162	0.716	ng		99
22) Carbon Disulfide	9.77	76	49203	0.535	ng		95
23) trans-1,2-Dichloroethene	10.80	61	21380	0.569	ng		86
24) 1,1-Dichloroethane	11.10	63	26702	0.611	ng		96
25) Methyl tert-Butyl Ether	11.20	73	42133	0.587	ng		86
26) Vinyl Acetate	11.37	86	988m	0.230	ng		
27) 2-Butanone	11.70	72	9835	0.649	ng	#	89
28) cis-1,2-Dichloroethene	12.35	61	21172	0.598	ng		81
29) Diisopropyl Ether	12.69	87	10651	0.536	ng	#	87
30) Ethyl Acetate	12.71	61	5838	0.618	ng		85
31) n-Hexane	12.70	57	25549	0.521	ng		87

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.78	83	27481	0.754	ng		97
34) Tetrahydrofuran	13.37	72	9521	0.628	ng	#	89
35) Ethyl tert-Butyl Ether	13.48	87	15911	0.608	ng	#	72
36) 1,2-Dichloroethane	13.89	62	22331	0.619	ng		100
38) 1,1,1-Trichloroethane	14.29	97	23788	0.663	ng		95
39) Isopropyl Acetate	14.84	61	8114	0.518	ng	#	36
40) 1-Butanol	14.89	56	11751m	0.500	ng		
41) Benzene	14.98	78	54381	0.596	ng		98
42) Carbon Tetrachloride	15.21	117	20160	0.668	ng		95
43) Cyclohexane	15.41	84	22659	0.671	ng	#	71
44) tert-Amyl Methyl Ether	15.87	73	37701	0.580	ng		94
45) 1,2-Dichloropropane	16.20	63	15628	0.597	ng		99
46) Bromodichloromethane	16.45	83	20164	0.649	ng		99
47) Trichloroethene	16.53	130	19130	0.852	ng		94
48) 1,4-Dioxane	16.51	88	10866	0.672	ng	#	76
49) Isooctane	16.62	57	60007	0.555	ng		78
50) Methyl Methacrylate	16.80	100	5270	0.636	ng		100
51) n-Heptane	16.98	71	14968	0.592	ng	#	78
52) cis-1,3-Dichloropropene	17.73	75	20622	0.580	ng		96
53) 4-Methyl-2-pentanone	17.77	58	13493	0.540	ng		74
54) trans-1,3-Dichloropropene	18.43	75	17672	0.575	ng		100
55) 1,1,2-Trichloroethane	18.67	97	13754	0.625	ng		97
58) Toluene	19.06	91	62960	0.696	ng		98
59) 2-Hexanone	19.37	43	36470	0.542	ng		82
60) Dibromochloromethane	19.60	129	16288	0.747	ng		99
61) 1,2-Dibromoethane	19.93	107	15889	0.748	ng		96
62) Butyl Acetate	20.19	43	39596	0.588	ng		87
63) n-Octane	20.35	57	12094	0.571	ng		80
64) Tetrachloroethene	20.54	166	17828	0.788	ng		98
65) Chlorobenzene	21.41	112	40785	0.728	ng		100
66) Ethylbenzene	21.89	91	67717	0.671	ng		96
67) m- & p-Xylene	22.12	91	111056	1.646	ng		88
68) Bromoform	22.21	173	12902	0.866	ng		100
69) Styrene	22.57	104	38052	0.653	ng		97
70) o-Xylene	22.71	91	55660	0.767	ng		93
71) n-Nonane	22.98	43	33403	0.574	ng	#	81
72) 1,1,2,2-Tetrachloroethane	22.68	83	20778	0.600	ng		99
74) Cumene	23.46	105	65915	0.716	ng		100
75) alpha-Pinene	23.96	93	32023	0.654	ng		84
76) n-Propylbenzene	24.10	91	80452	0.653	ng		98
77) 3-Ethyltoluene	24.22	105	65688	0.654	ng		97
78) 4-Ethyltoluene	24.28	105	64603	0.699	ng		100
79) 1,3,5-Trimethylbenzene	24.37	105	56551	0.689	ng		97

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	27093	0.623	ng		92
81) 2-Ethyltoluene	24.61	105	63115	0.625	ng		99
82) 1,2,4-Trimethylbenzene	24.88	105	58569	0.631	ng		98
83) n-Decane	24.98	57	31433	0.612	ng		88
84) Benzyl Chloride	25.05	91	30371	0.480	ng		96
85) 1,3-Dichlorobenzene	25.07	146	36248	0.721	ng		97
86) 1,4-Dichlorobenzene	25.16	146	35281	0.734	ng		99
87) sec-Butylbenzene	25.21	105	77751	0.714	ng		97
88) p-Isopropyltoluene	25.40	119	65970	0.694	ng		95
89) 1,2,3-Trimethylbenzene	25.40	105	57591	0.631	ng		98
90) 1,2-Dichlorobenzene	25.58	146	34802	0.676	ng		100
91) d-Limonene	25.57	68	20842	0.495	ng		90
92) 1,2-Dibromo-3-Chloropr...	26.11	157	8581	0.629	ng	#	80
93) n-Undecane	26.50	57	32540	0.604	ng		86
94) 1,2,4-Trichlorobenzene	27.63	180	25769	0.807	ng		97
95) Naphthalene	27.77	128	70883	0.691	ng		97
96) n-Dodecane	27.74	57	32740	0.599	ng		87
97) Hexachloro-1,3-butadiene	28.19	225	17105	0.832	ng		98

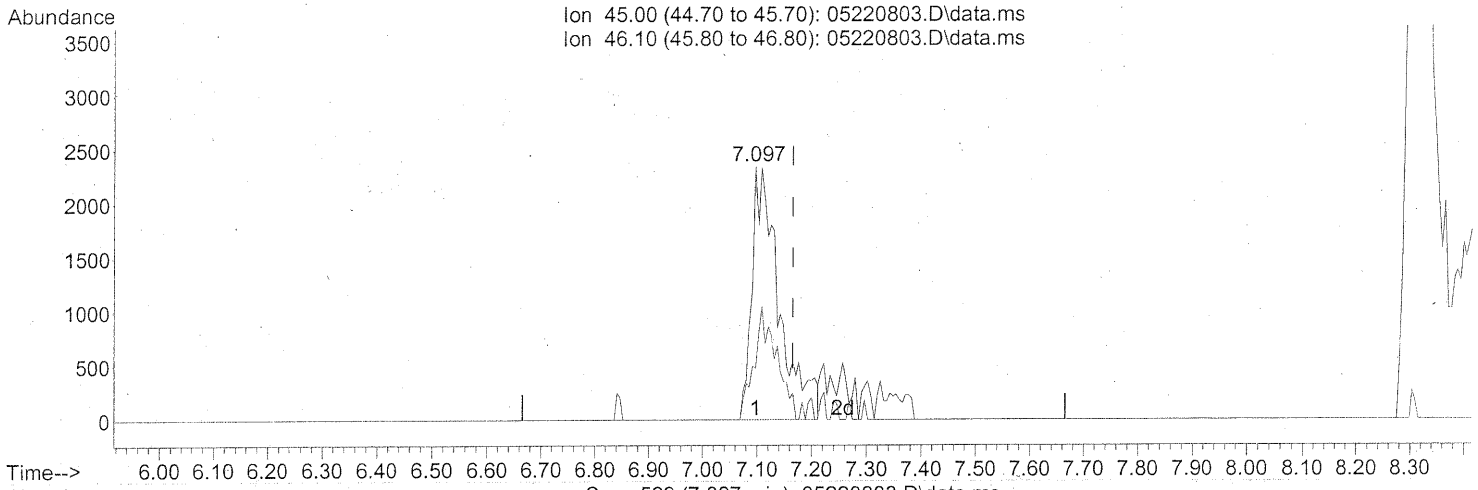
(#) = qualifier out of range (m) = manual integration (+) = signals summed

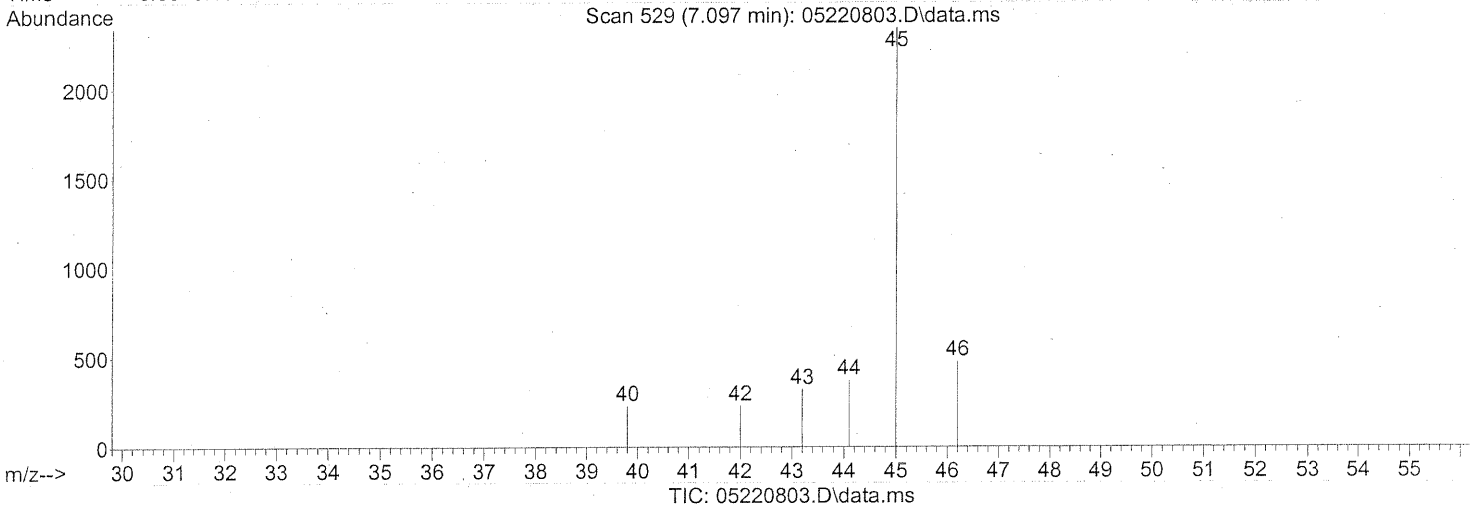
05/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220803.D\data.ms

(10) Ethanol (T)

7.097min (-0.069) 0.37ng

TAILING

response 8070

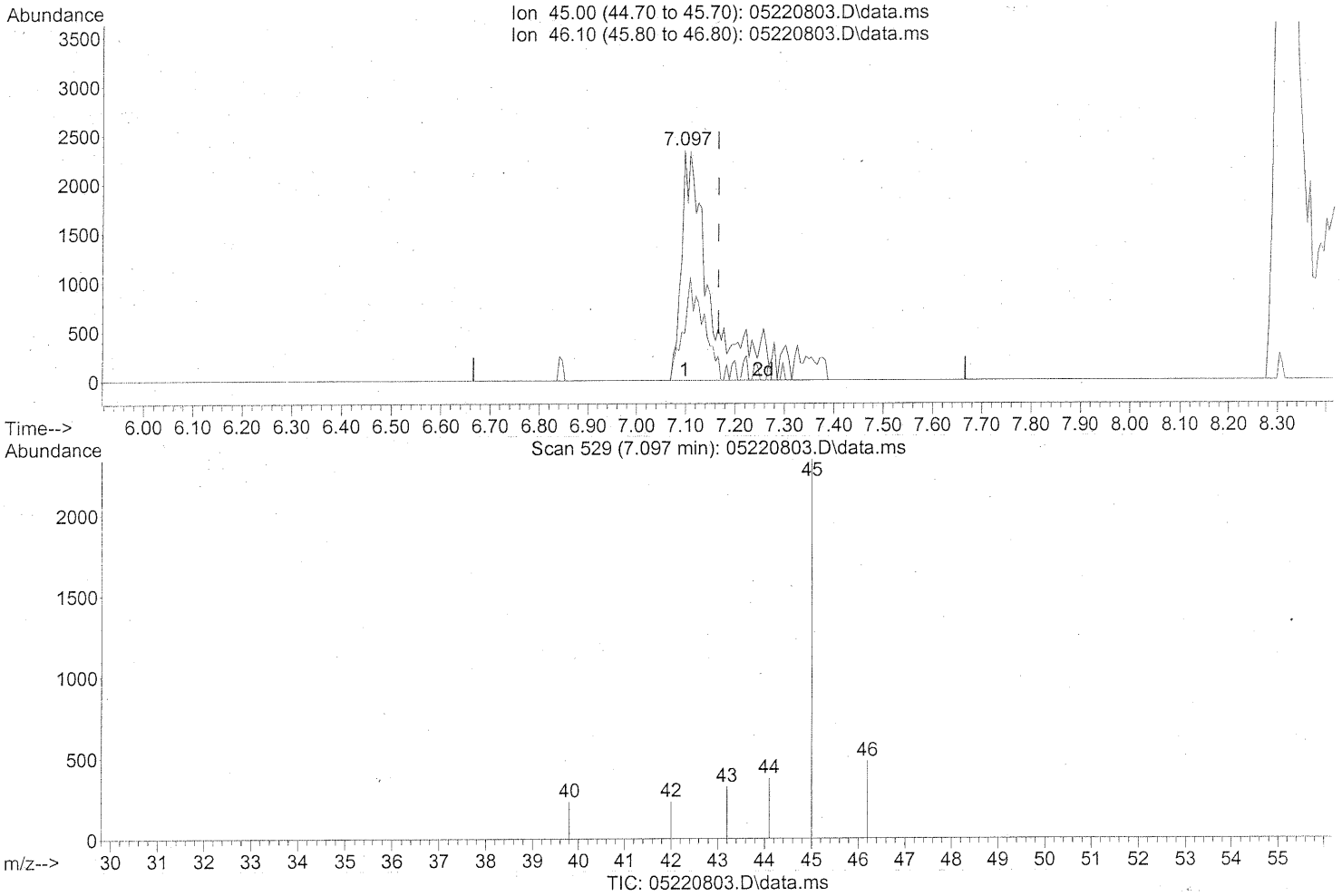
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.37
0.00	0.00	0.00
0.00	0.00	0.00

1100

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.49ng m

response 10775

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	27.99
0.00	0.00	0.00
0.00	0.00	0.00

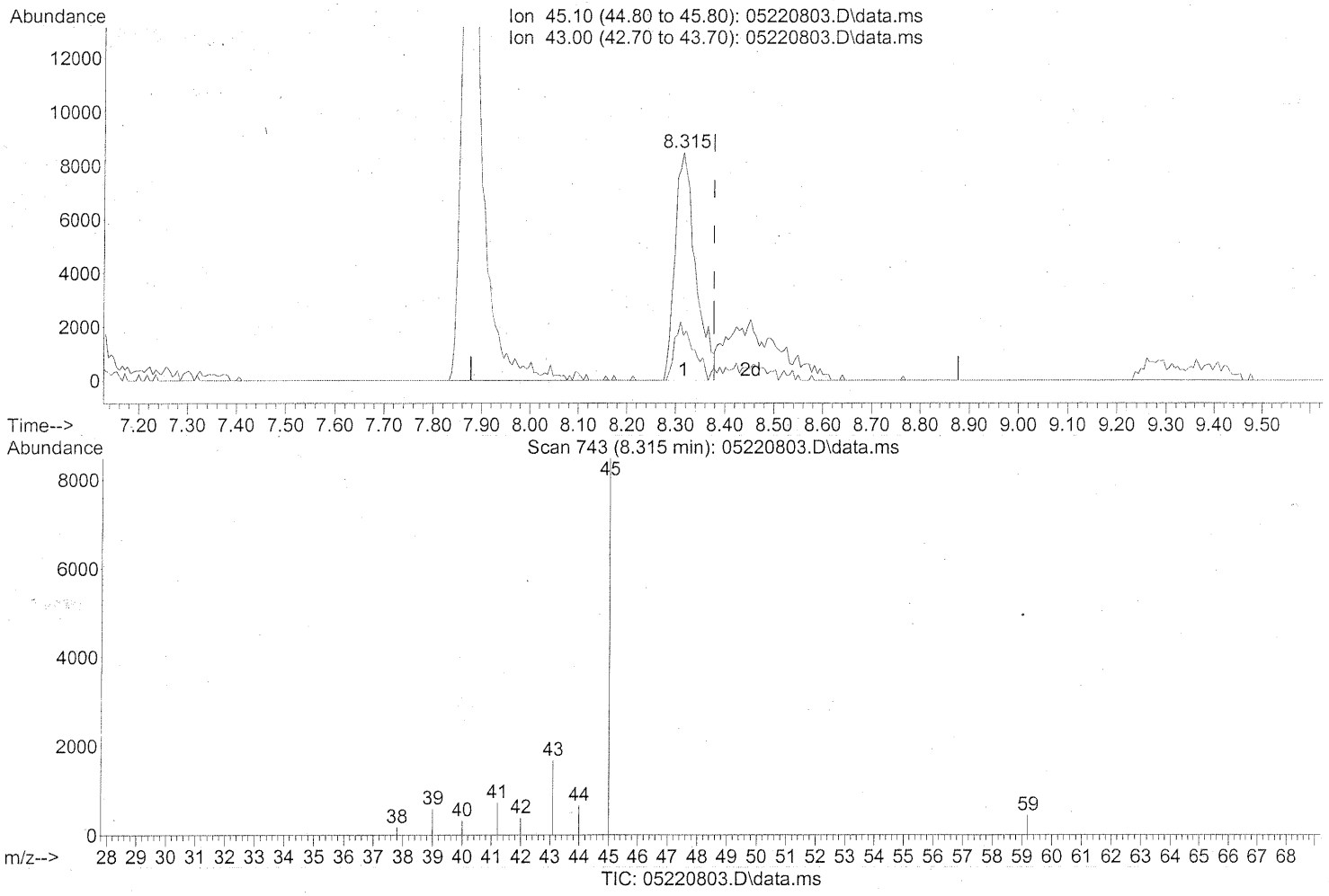
ADDED TAILING
5/22/08
5/22/08

1101

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.315min (-0.062) 0.34ng

response 24572

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	22.92
0.00	0.00	0.00
0.00	0.00	0.00

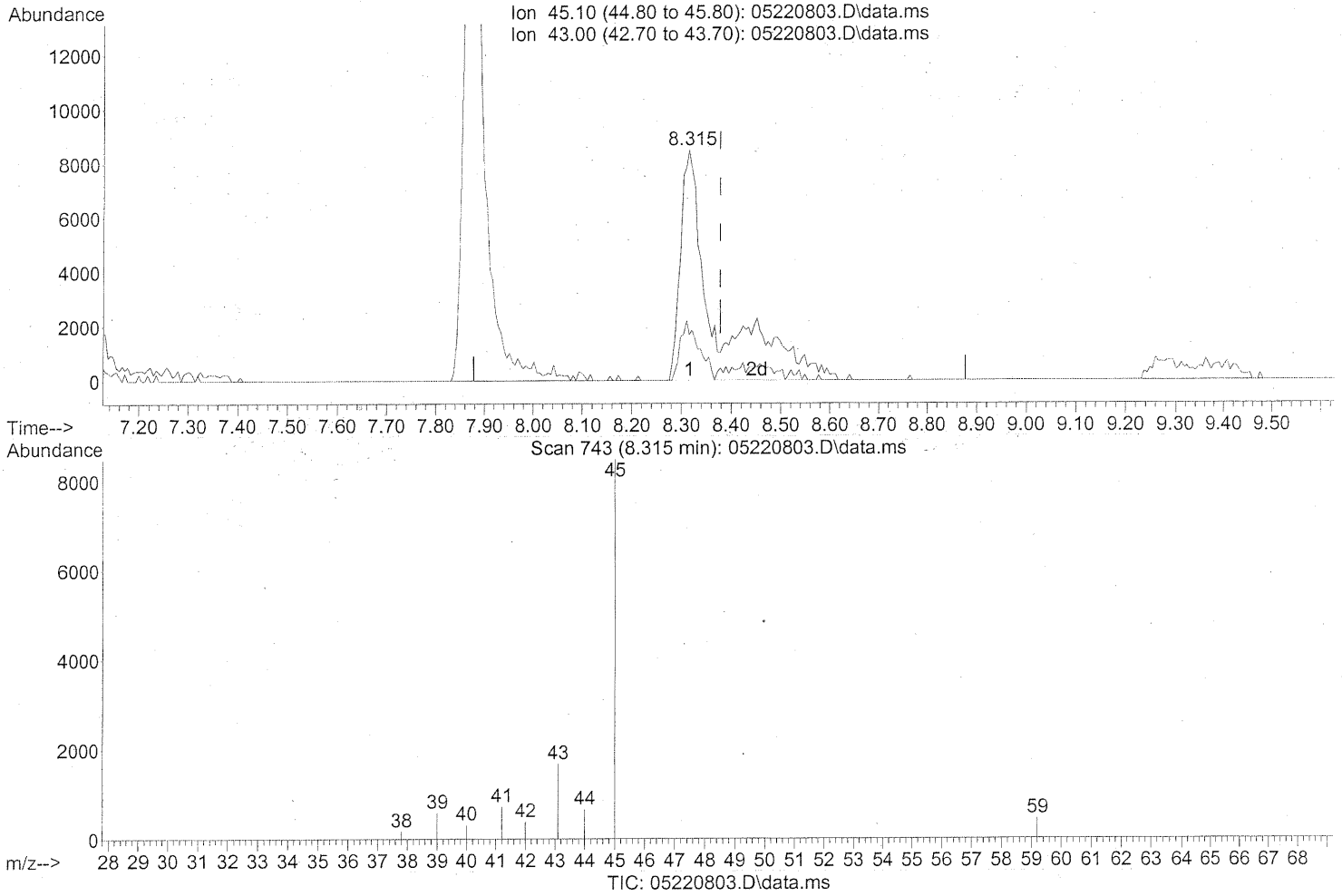
SPLIT PEAK

1102

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.315min (-0.062) 0.56ng m

response 40731

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	13.83
0.00	0.00	0.00
0.00	0.00	0.00

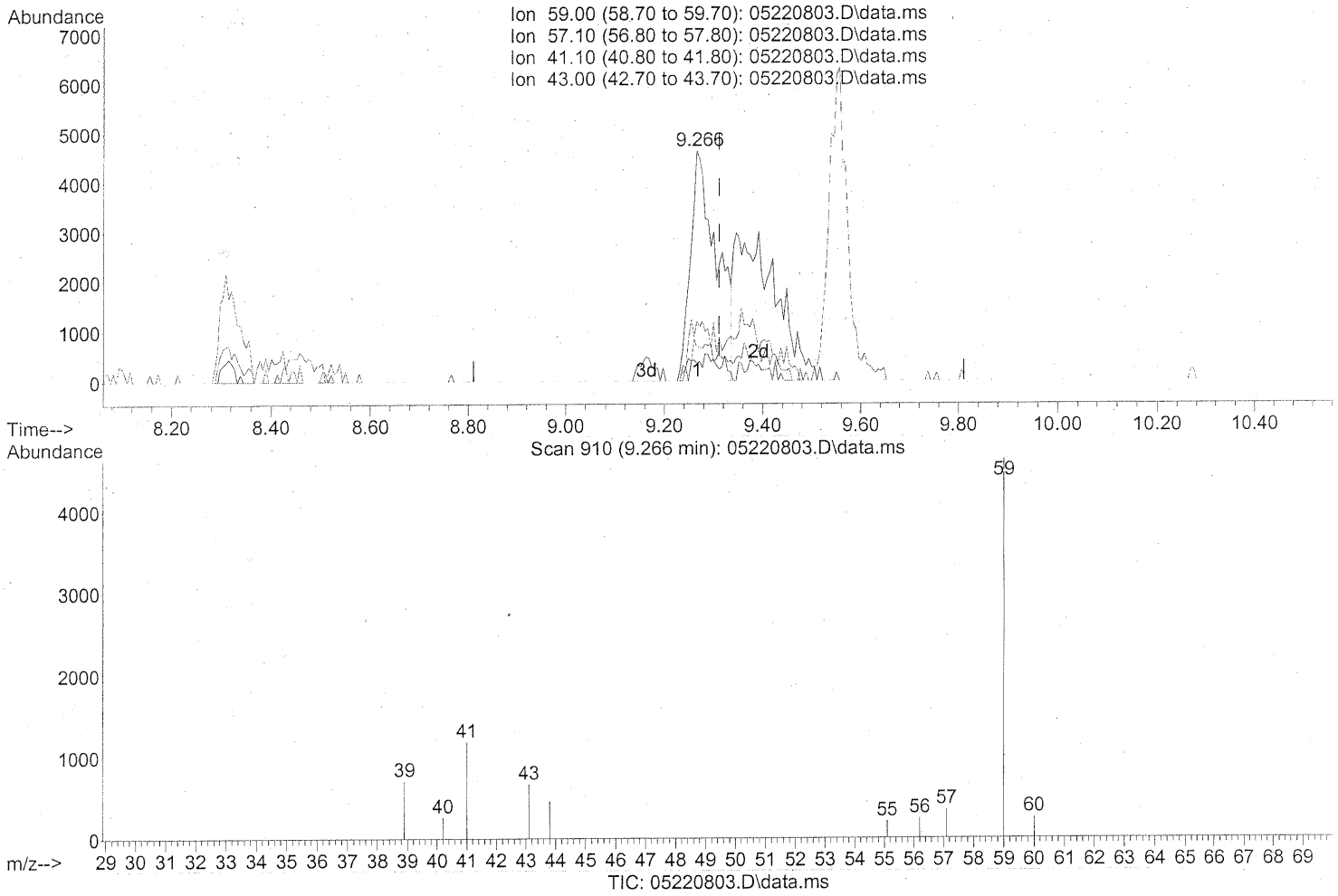
INT. THE WHOLE PEAK
5/22/08
5/22/08

1103

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (-0.045) 0.28ng

response 16829

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	4.27
41.10	20.10	27.48
43.00	12.30	14.64

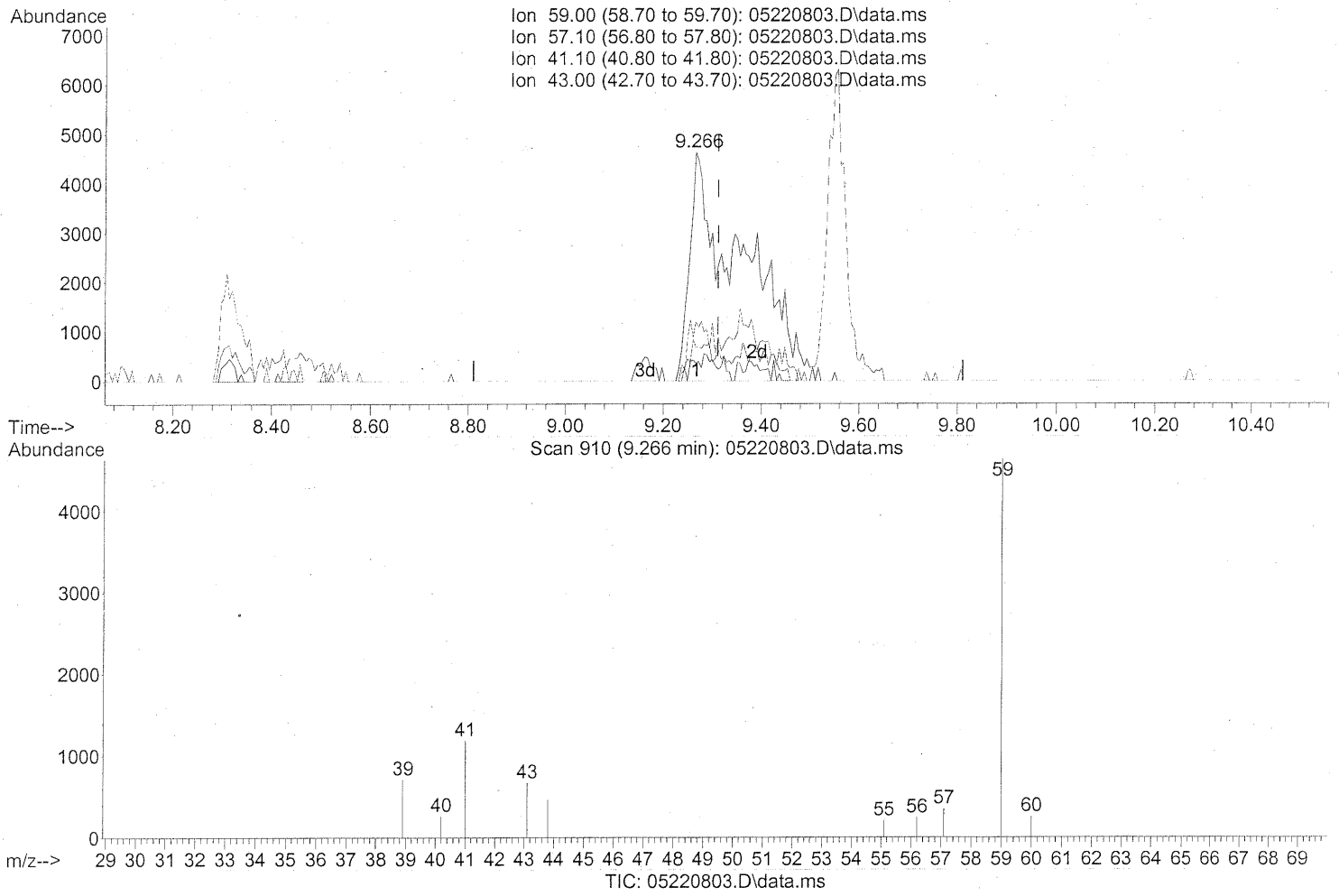
SPLIT PEAK

1104

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (-0.045) 0.57ng m

response 34271

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.10
41.10	20.10	13.49
43.00	12.30	7.19

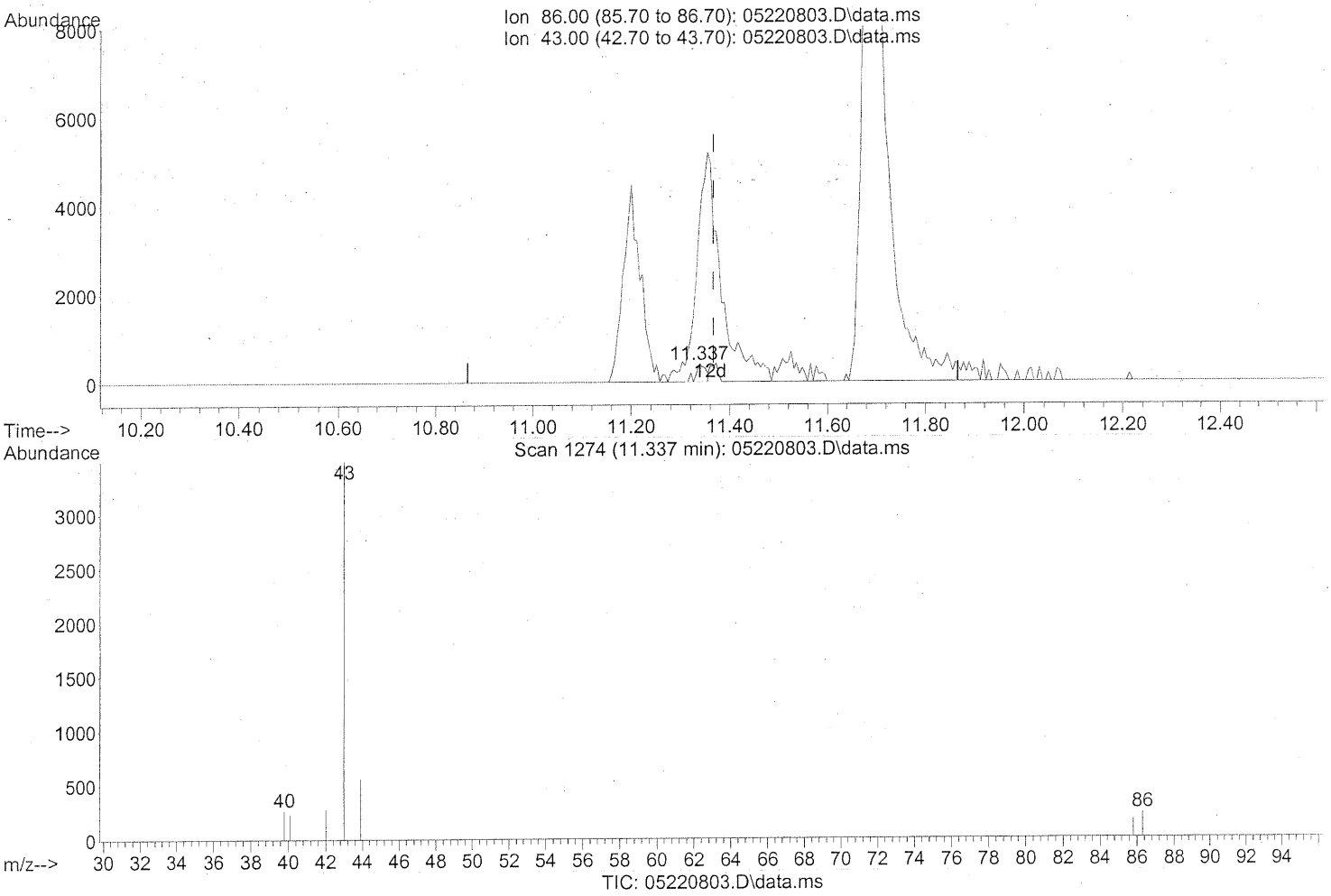
INT. THE WHOLE PEAK
05/22/08
EM 5/22/08

1105

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.337min (-0.029) 0.13ng

response 550

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

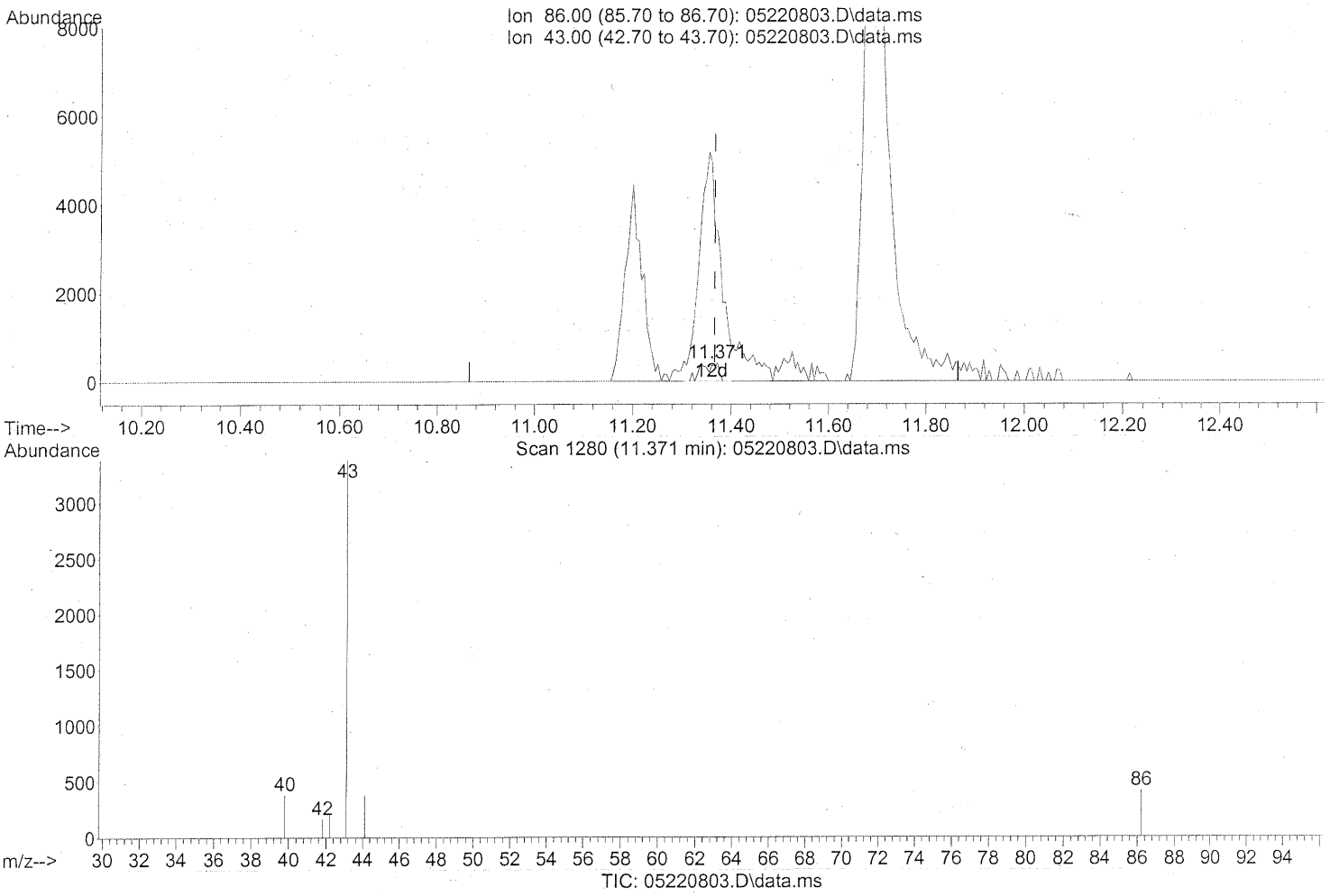
SPLIT PEAK

1106

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.371min (+0.005) 0.23ng m

response 988

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

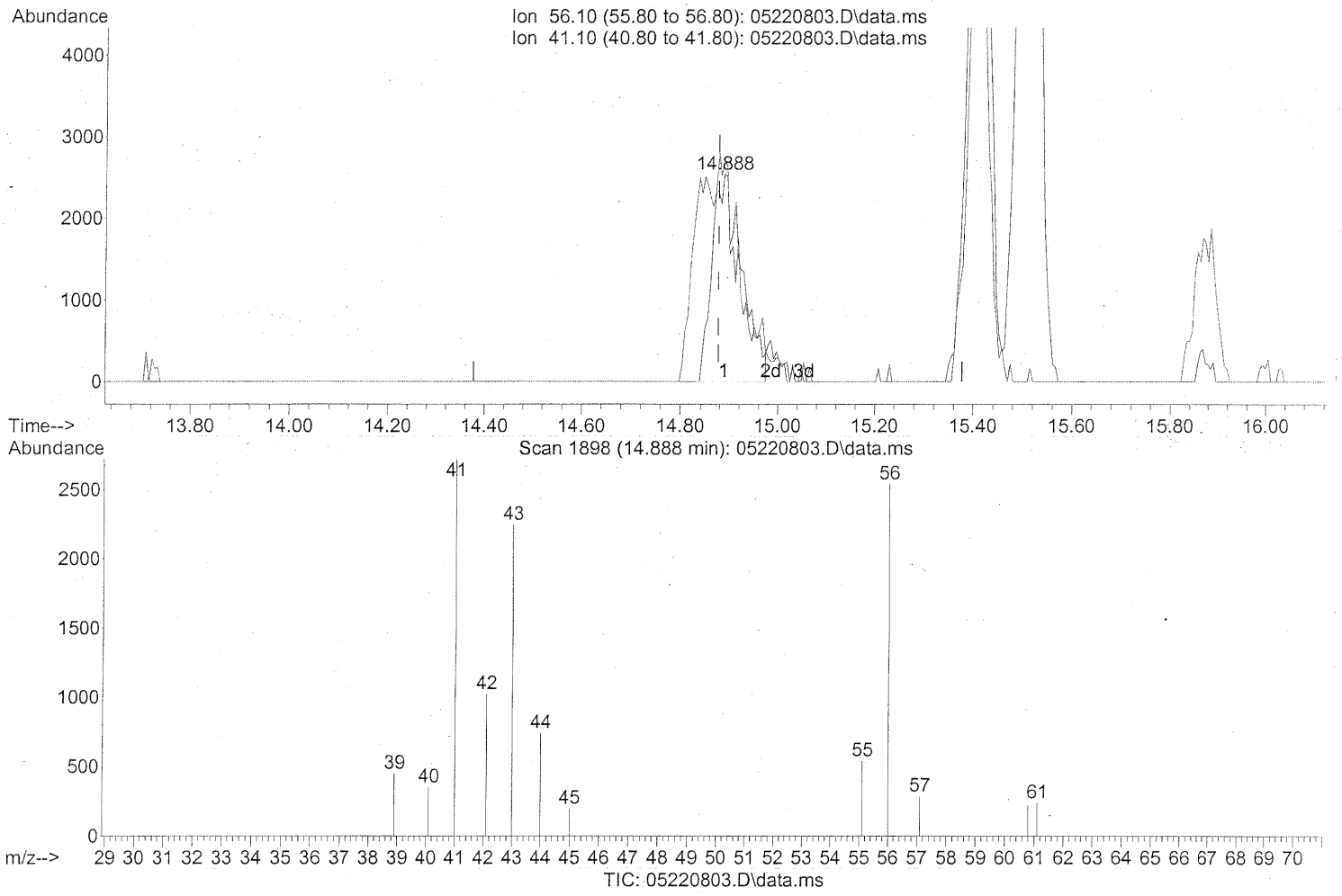
INT. THE WHOLE PEAK
BM 05/22/08
BM 5/22/08

1107

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(40) 1-Butanol (T)

14.888min (+0.011) 0.46ng

response 10817

Ion	Exp%	Act%
56.10	100	100
41.10	92.00	155.68#
0.00	0.00	0.00
0.00	0.00	0.00

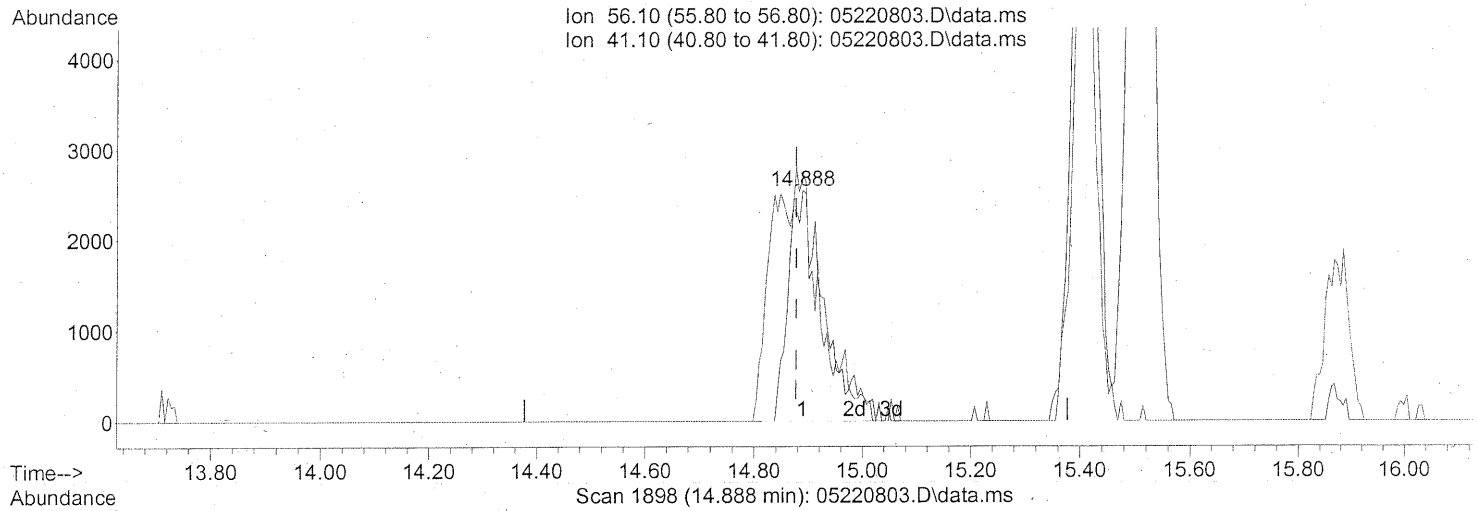
TAILING

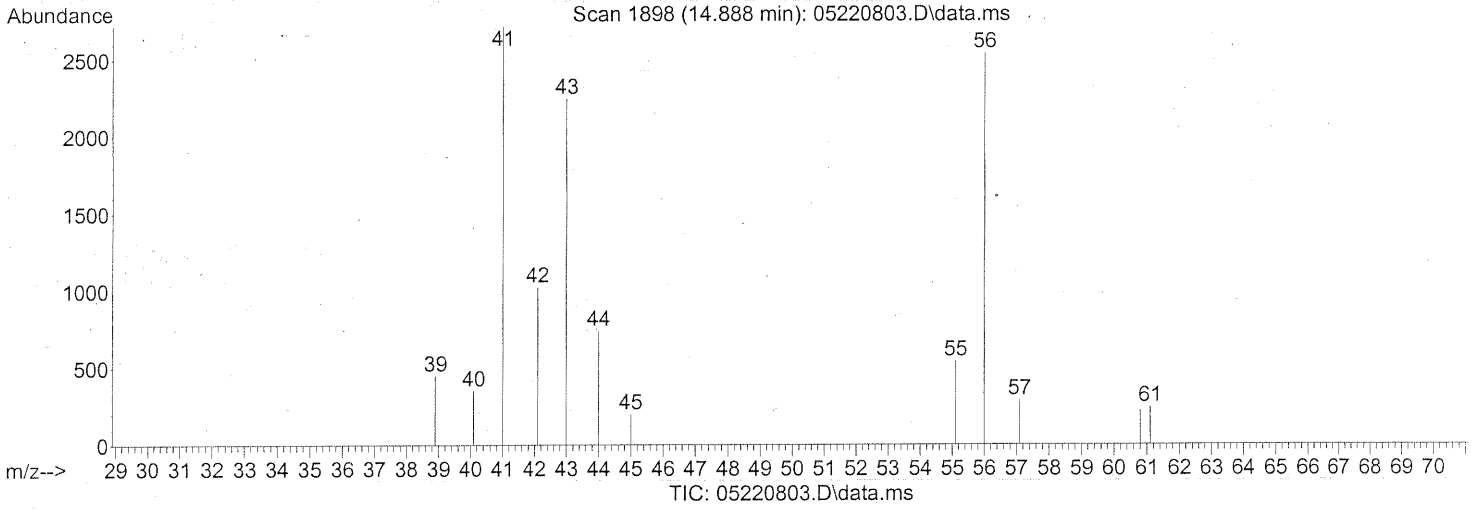
1108

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration





TIC: 05220803.D\data.ms

(40) 1-Butanol (T)

14.888min (+0.011) 0.50ng m

response 11751

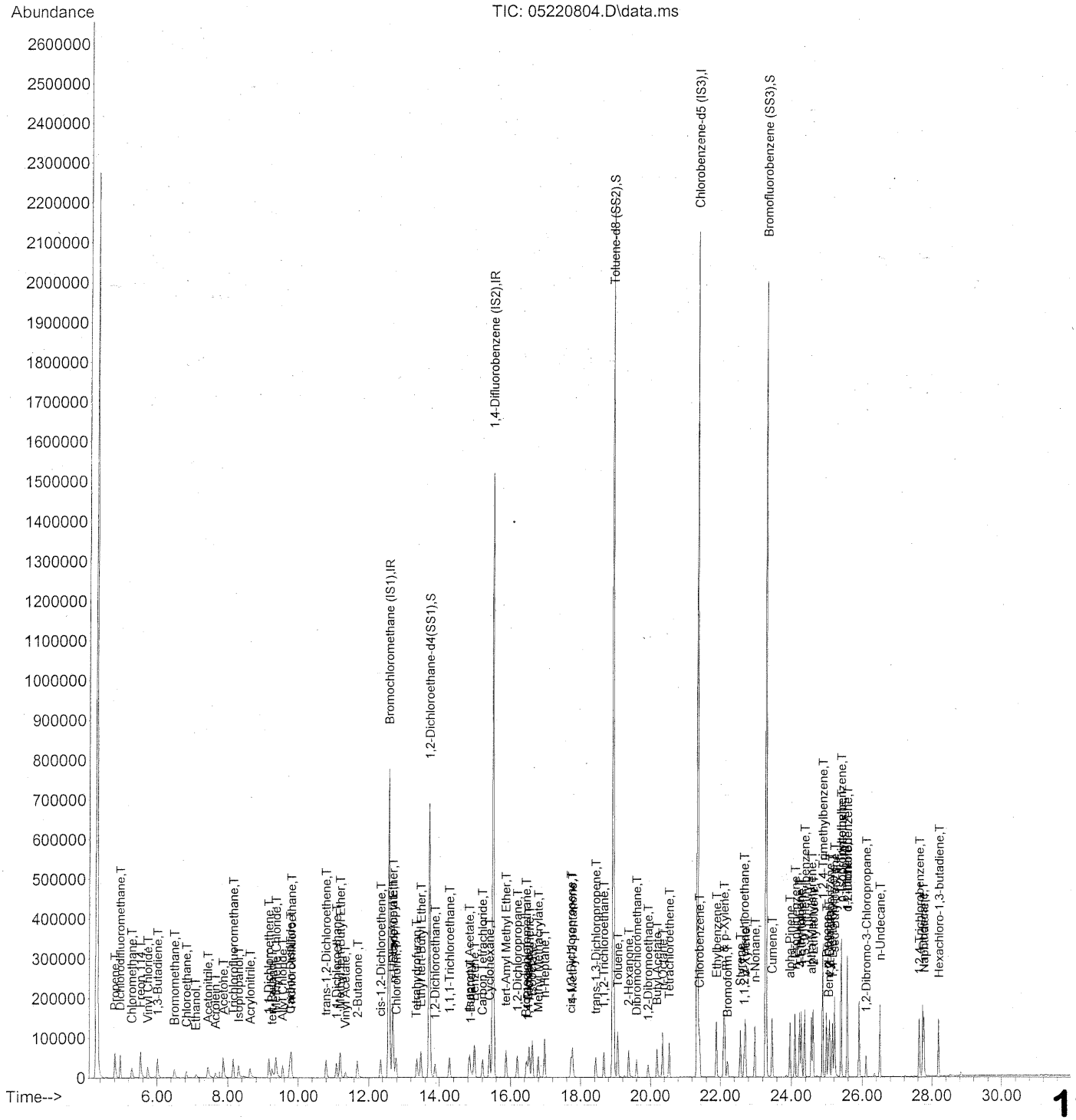
Ion	Exp%	Act%
56.10	100	100
41.10	92.00	143.31#
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
5/22/08
5/22/08

1109

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	387850	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1717781	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	808909	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.72	65	693031	22.281	ng		-0.03
Spiked Amount 25.000			Recovery =	89.12% ✓			
57) Toluene-d8 (SS2)	18.92	98	1824190	25.160	ng		-0.01
Spiked Amount 25.000			Recovery =	100.64% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	731633	29.323	ng		0.00
Spiked Amount 25.000			Recovery =	117.28% ✓			
Target Compounds							Qvalue
2) Propene	4.80	42	31590	0.984	ng	#	80
3) Dichlorodifluoromethane	4.97	85	63836	1.091	ng		98
4) Chloromethane	5.29	50	44241	0.905	ng		98
5) Freon 114	5.54	135	31291	1.092	ng		100
6) Vinyl Chloride	5.74	62	40614	0.892	ng		97
7) 1,3-Butadiene	6.02	54	29257	0.831	ng	#	75
8) Bromomethane	6.50	94	21776	0.996	ng		100
9) Chloroethane	6.83	64	18933	1.004	ng		94
10) Ethanol	7.10	45	19222m	0.878	ng		
11) Acetonitrile	7.44	41	55423	0.963	ng		96
12) Acrolein	7.65	56	14360	0.928	ng		96
13) Acetone	7.87	58	25772	1.200	ng	#	61
14) Trichlorofluoromethane	8.16	101	51253	1.115	ng		98
15) Isopropanol	8.31	45	72885m	1.003	ng		
16) Acrylonitrile	8.64	53	33618	1.009	ng		90
17) 1,1-Dichloroethene	9.16	96	24647	1.151	ng	#	81
18) tert-Butanol	9.25	59	62875	1.043	ng		92
19) Methylene Chloride	9.36	84	27777	1.126	ng	#	78
20) Allyl Chloride	9.55	41	30378	0.922	ng		94
21) Trichlorotrifluoroethane	9.82	151	26014	1.324	ng		94
22) Carbon Disulfide	9.78	76	88300	0.966	ng		96
23) trans-1,2-Dichloroethene	10.80	61	38110	1.021	ng		79
24) 1,1-Dichloroethane	11.09	63	47132	1.085	ng		97
25) Methyl tert-Butyl Ether	11.20	73	77796	1.090	ng		85
26) Vinyl Acetate	11.35	86	2478	0.581	ng	#	93
27) 2-Butanone	11.69	72	16980	1.128	ng		99
28) cis-1,2-Dichloroethene	12.35	61	38263	1.088	ng		86
29) Diisopropyl Ether	12.69	87	18913	0.957	ng	#	84
30) Ethyl Acetate	12.69	61	10672	1.137	ng		79
31) n-Hexane	12.71	57	46629	0.956	ng		91

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.78	83	46595	1.287	ng		100
34) Tetrahydrofuran	13.35	72	16796	1.115	ng	#	92
35) Ethyl tert-Butyl Ether	13.48	87	27643	1.063	ng	#	77
36) 1,2-Dichloroethane	13.89	62	39420	1.099	ng		98
38) 1,1,1-Trichloroethane	14.29	97	45629	1.275	ng		95
39) Isopropyl Acetate	14.84	61	13612	0.871	ng	#	22
40) 1-Butanol	14.87	56	19777	0.844	ng	#	36
41) Benzene	14.97	78	98158	1.077	ng		99
42) Carbon Tetrachloride	15.21	117	37159	1.233	ng		99
43) Cyclohexane	15.41	84	39849	1.182	ng	#	75
44) tert-Amyl Methyl Ether	15.87	73	64909	1.001	ng		94
45) 1,2-Dichloropropane	16.20	63	26711	1.023	ng		97
46) Bromodichloromethane	16.45	83	35298	1.139	ng		97
47) Trichloroethene	16.53	130	31767	1.417	ng		100
48) 1,4-Dioxane	16.50	88	19341	1.199	ng	#	77
49) Isooctane	16.62	57	108788	1.008	ng		79
50) Methyl Methacrylate	16.80	100	8739	1.056	ng	#	82
51) n-Heptane	16.98	71	26789	1.061	ng	#	83
52) cis-1,3-Dichloropropene	17.72	75	35922	1.012	ng		100
53) 4-Methyl-2-pentanone	17.77	58	24393	0.979	ng		78
54) trans-1,3-Dichloropropene	18.43	75	33739	1.100	ng		98
55) 1,1,2-Trichloroethane	18.67	97	24090	1.098	ng		93
58) Toluene	19.06	91	109766	1.205	ng		97
59) 2-Hexanone	19.37	43	71227	1.050	ng		79
60) Dibromochloromethane	19.60	129	29309	1.334	ng		97
61) 1,2-Dibromoethane	19.93	107	29150	1.361	ng		99
62) Butyl Acetate	20.19	43	72888	1.074	ng		86
63) n-Octane	20.35	57	23440	1.098	ng		89
64) Tetrachloroethene	20.54	166	31031	1.361	ng		98
65) Chlorobenzene	21.40	112	75334	1.335	ng		98
66) Ethylbenzene	21.89	91	123937	1.218	ng		95
67) m- & p-Xylene	22.11	91	196019	2.883	ng		90
68) Bromoform	22.21	173	23803	1.585	ng		98
69) Styrene	22.57	104	71994	1.227	ng		97
70) o-Xylene	22.71	91	99714	1.363	ng		92
71) n-Nonane	22.98	43	59725	1.019	ng	#	81
72) 1,1,2,2-Tetrachloroethane	22.68	83	40131	1.149	ng		95
74) Cumene	23.46	105	119013	1.282	ng		98
75) alpha-Pinene	23.96	93	59293	1.202	ng		94
76) n-Propylbenzene	24.10	91	148255	1.193	ng		98
77) 3-Ethyltoluene	24.23	105	115484	1.141	ng		100
78) 4-Ethyltoluene	24.28	105	124428	1.335	ng		98
79) 1,3,5-Trimethylbenzene	24.37	105	104662	1.265	ng		98

1112

05/22/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

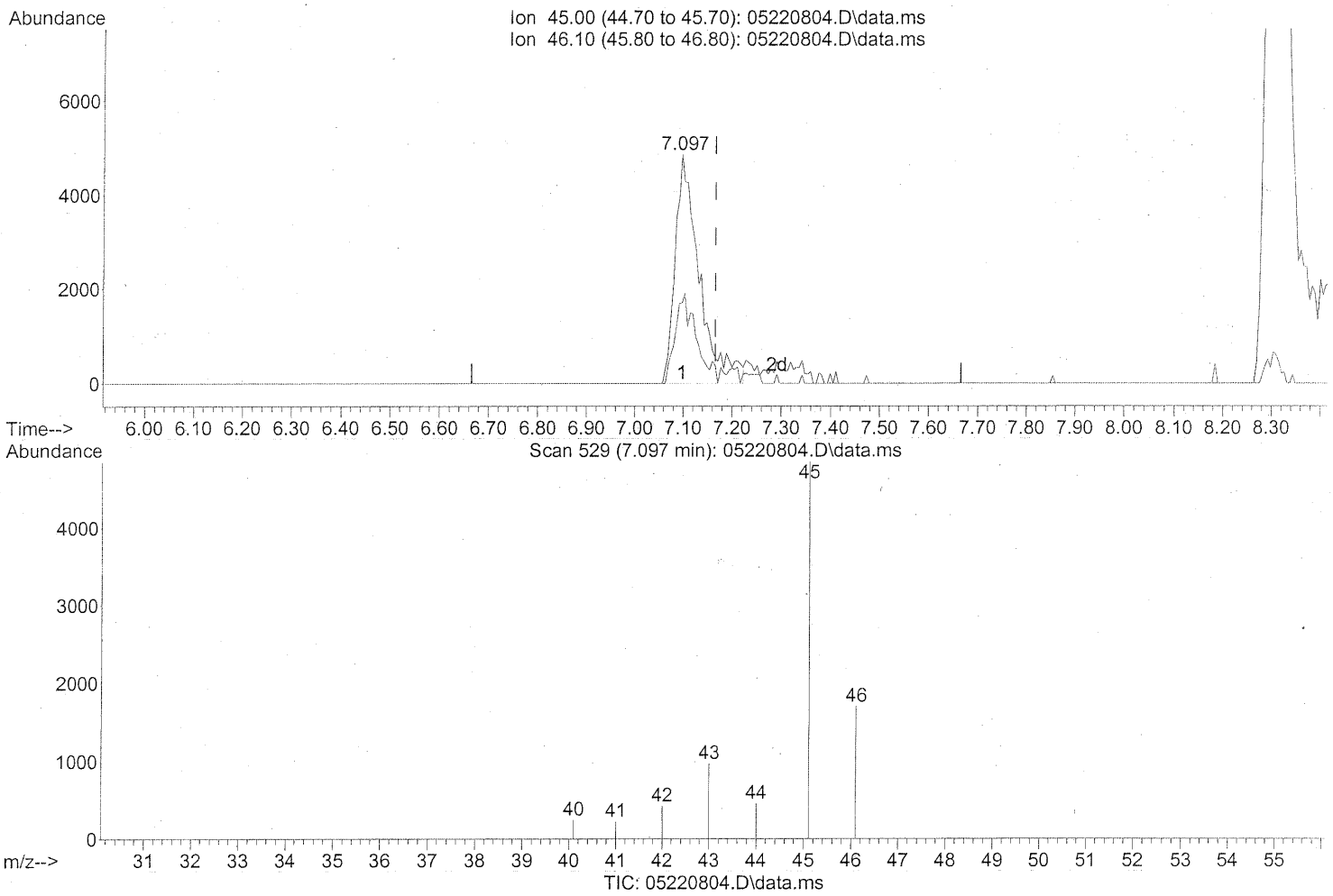
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	24.56	118	51478	1.174	ng		95
81) 2-Ethyltoluene	24.61	105	118434	1.164	ng		98
82) 1,2,4-Trimethylbenzene	24.88	105	108583	1.161	ng		99
83) n-Decane	24.98	57	55990	1.083	ng		86
84) Benzyl Chloride	25.05	91	60901	0.955	ng		93
85) 1,3-Dichlorobenzene	25.08	146	65743	1.298	ng		96
86) 1,4-Dichlorobenzene	25.15	146	66572	1.374	ng		99
87) sec-Butylbenzene	25.21	105	137114	1.249	ng		97
88) p-Isopropyltoluene	25.39	119	125564	1.311	ng		94
89) 1,2,3-Trimethylbenzene	25.40	105	106454	1.157	ng		97
90) 1,2-Dichlorobenzene	25.57	146	64179	1.237	ng		99
91) d-Limonene	25.57	68	40763	0.961	ng		98
92) 1,2-Dibromo-3-Chloropr...	26.11	157	17133	1.246	ng	#	85
93) n-Undecane	26.50	57	59190	1.090	ng		86
94) 1,2,4-Trichlorobenzene	27.63	180	46517	1.446	ng		97
95) Naphthalene	27.77	128	137258	1.327	ng		97
96) n-Dodecane	27.74	57	58398	1.060	ng		82
97) Hexachloro-1,3-butadiene	28.19	225	30742	1.484	ng		99

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

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.76ng

response 16650

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.31
0.00	0.00	0.00
0.00	0.00	0.00

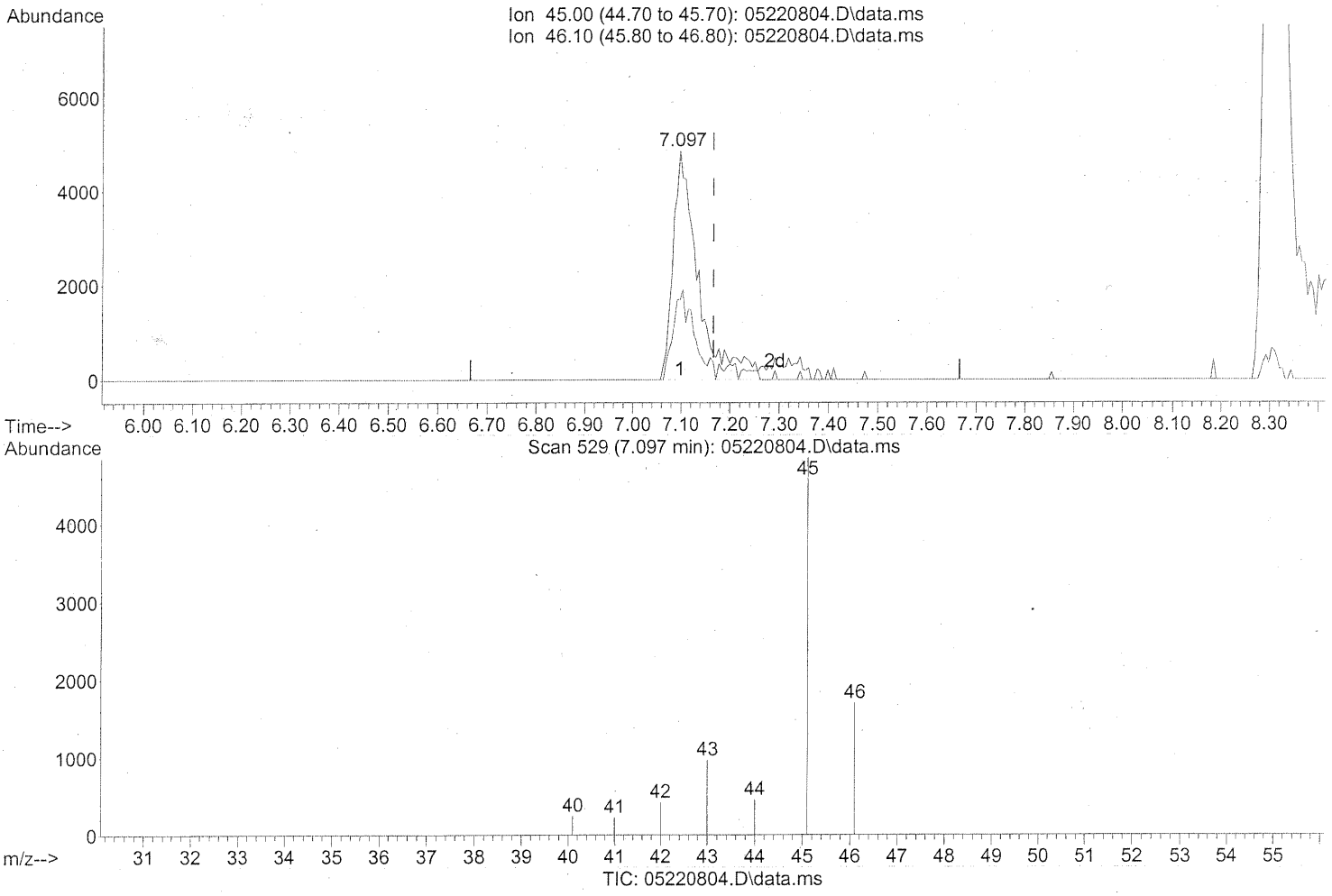
TAILING

1114

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.88ng m

response 19222

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.72
0.00	0.00	0.00
0.00	0.00	0.00

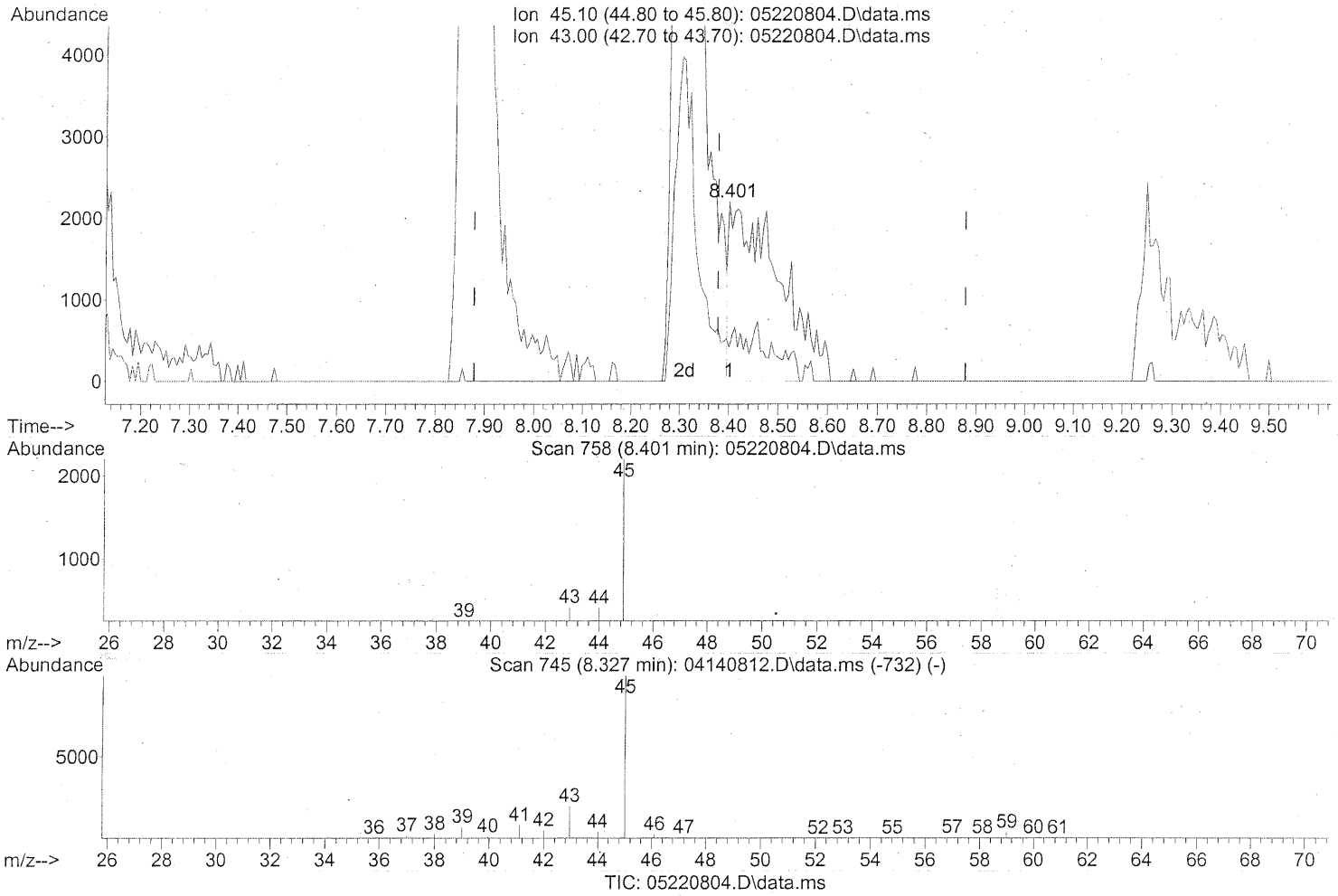
ADDED TAILING
5/22/08
5/22/08

1115

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.401min (+0.023) 0.21ng

response 15270

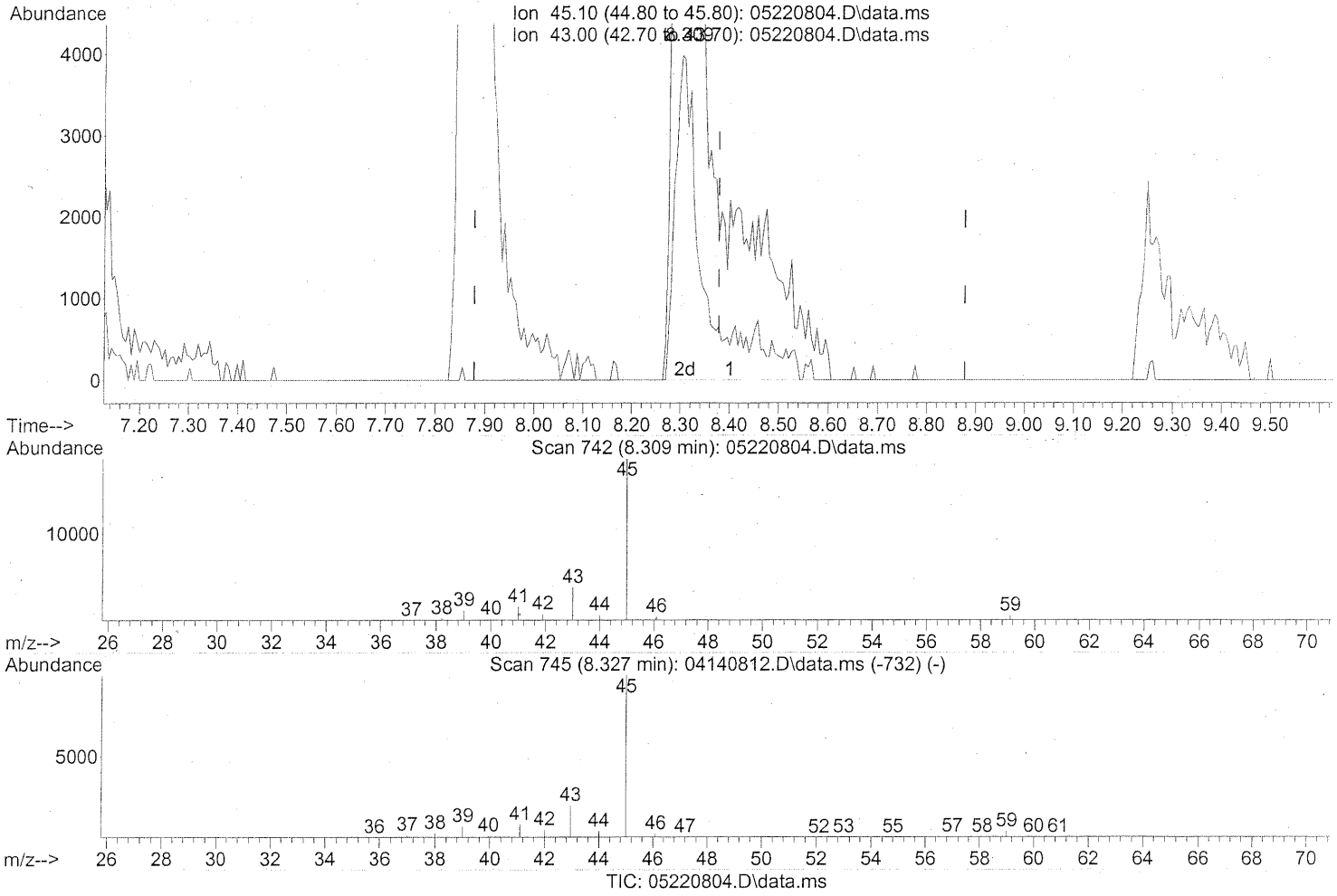
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	5.21
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

1116

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.309min (-0.068) 1.00ng m

response 72885

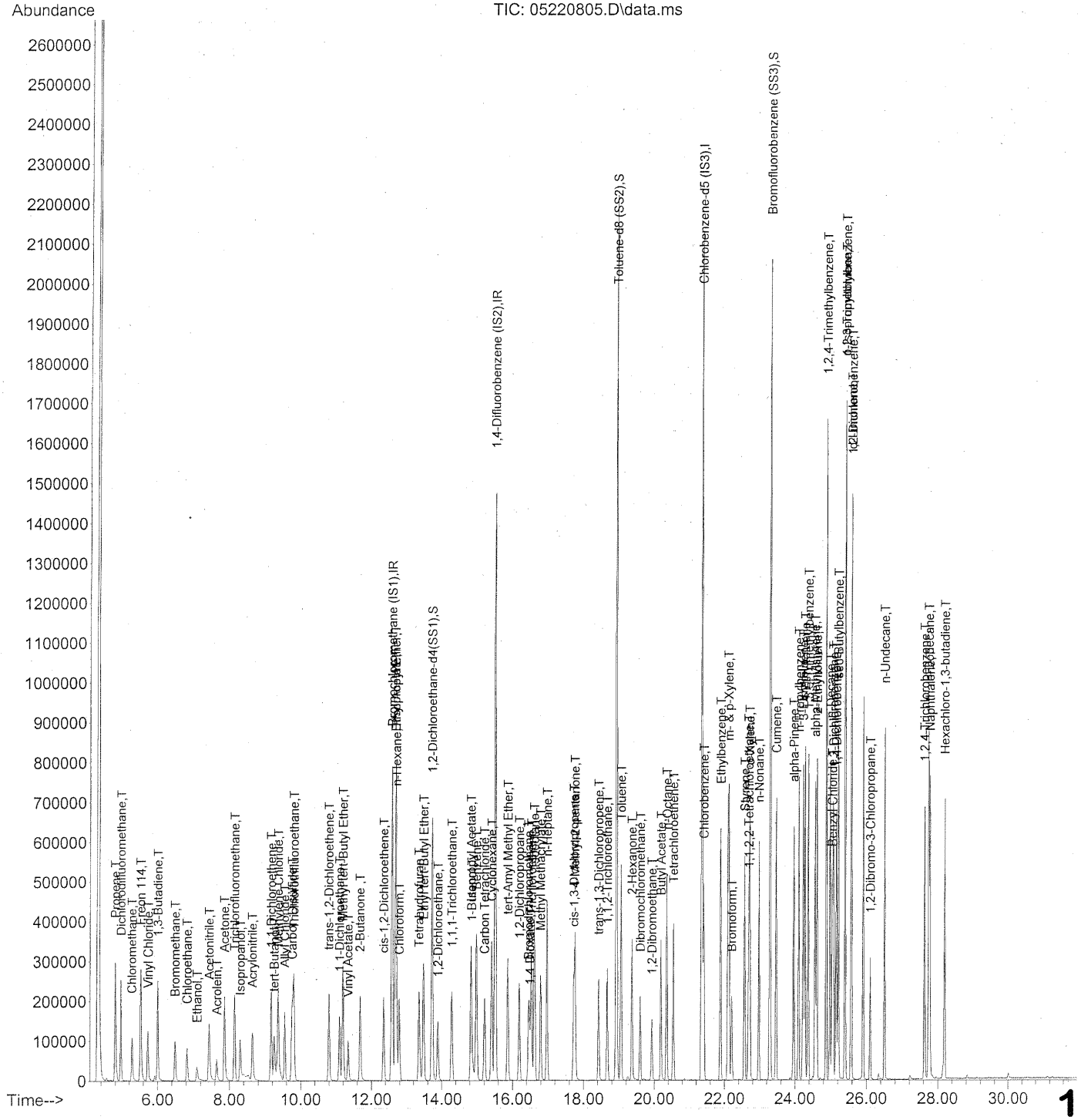
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	1.09
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK
5/22/08
5/22/08

1117

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	392159	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	15.51	114	1692913	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	804687	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	670984	21.335	ng		-0.02
Spiked Amount 25.000			Recovery =	85.36% ✓			
57) Toluene-d8 (SS2)	18.93	98	1810051	25.096	ng		0.00
Spiked Amount 25.000			Recovery =	100.40% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	741734	29.884	ng		0.00
Spiked Amount 25.000			Recovery =	119.52% ✓			
Target Compounds							Qvalue
2) Propene	4.80	42	143507	4.421	ng		87
3) Dichlorodifluoromethane	4.96	85	277418	4.688	ng		99
4) Chloromethane	5.28	50	161479	3.265	ng		96
5) Freon 114	5.53	135	137052	4.730	ng		100
6) Vinyl Chloride	5.73	62	174777	3.797	ng		96
7) 1,3-Butadiene	6.00	54	142395	4.001	ng	#	77
8) Bromomethane	6.49	94	95601	4.327	ng		99
9) Chloroethane	6.82	64	85760	4.498	ng		94
10) Ethanol	7.10	45	81383m	3.677	ng		
11) Acetonitrile	7.43	41	254835	4.381	ng		96
12) Acrolein	7.65	56	63562	4.064	ng		98
13) Acetone	7.86	58	102750	4.733	ng	#	56
14) Trichlorofluoromethane	8.14	101	236616	5.089	ng		97
15) Isopropanol	8.30	45	286440	3.899	ng		97
16) Acrylonitrile	8.63	53	152877	4.539	ng		99
17) 1,1-Dichloroethene	9.16	96	113381	5.236	ng	#	77
18) tert-Butanol	9.24	59	279157	4.582	ng		92
19) Methylene Chloride	9.36	84	118026	4.733	ng		84
20) Allyl Chloride	9.54	41	160353	4.813	ng		97
21) Trichlorotrifluoroethane	9.81	151	115537	5.816	ng		94
22) Carbon Disulfide	9.76	76	404136	4.371	ng		97
23) trans-1,2-Dichloroethene	10.79	61	178894	4.740	ng		83
24) 1,1-Dichloroethane	11.10	63	212706	4.842	ng		95
25) Methyl tert-Butyl Ether	11.19	73	356345	4.939	ng		86
26) Vinyl Acetate	11.34	86	15989	3.707	ng	#	92
27) 2-Butanone	11.67	72	79090	5.195	ng		98
28) cis-1,2-Dichloroethene	12.34	61	170613	4.797	ng		85
29) Diisopropyl Ether	12.68	87	89599	4.483	ng	#	88
30) Ethyl Acetate	12.68	61	49302	5.195	ng		81
31) n-Hexane	12.70	57	219324	4.447	ng		89

RJS 05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.78	83	211901	5.787 ng		97
34) Tetrahydrofuran	13.35	72	76042	4.994 ng		95
35) Ethyl tert-Butyl Ether	13.48	87	129652	4.932 ng	#	75
36) 1,2-Dichloroethane	13.89	62	177196	4.886 ng		98
38) 1,1,1-Trichloroethane	14.29	97	199328	5.651 ng		97
39) Isopropyl Acetate	14.83	61	69941	4.543 ng	#	33
40) 1-Butanol	14.84	56	100264	4.339 ng	#	54
41) Benzene	14.98	78	450320	5.014 ng		99
42) Carbon Tetrachloride	15.21	117	174878	5.888 ng		98
43) Cyclohexane	15.41	84	176057	5.299 ng	#	75
44) tert-Amyl Methyl Ether	15.87	73	311528	4.875 ng		94
45) 1,2-Dichloropropane	16.19	63	118558	4.607 ng		96
46) Bromodichloromethane	16.45	83	164042	5.372 ng		99
47) Trichloroethene	16.54	130	135766	6.144 ng		98
48) 1,4-Dioxane	16.49	88	89293	5.616 ng		81
49) Isooctane	16.62	57	489147	4.600 ng		77
50) Methyl Methacrylate	16.79	100	44906	5.506 ng		90
51) n-Heptane	16.98	71	124058	4.986 ng	#	79
52) cis-1,3-Dichloropropene	17.73	75	175145	5.006 ng		97
53) 4-Methyl-2-pentanone	17.76	58	117483	4.783 ng		80
54) trans-1,3-Dichloropropene	18.43	75	170691	5.647 ng		100
55) 1,1,2-Trichloroethane	18.67	97	112834	5.217 ng		99
58) Toluene	19.06	91	502050	5.540 ng		97
59) 2-Hexanone	19.37	43	341240	5.055 ng		80
60) Dibromochloromethane	19.60	129	141184	6.460 ng		99
61) 1,2-Dibromoethane	19.93	107	133769	6.278 ng		100
62) Butyl Acetate	20.19	43	350603	5.194 ng		85
63) n-Octane	20.35	57	105392	4.962 ng		90
64) Tetrachloroethene	20.55	166	144016	6.347 ng		99
65) Chlorobenzene	21.41	112	340277	6.062 ng		100
66) Ethylbenzene	21.89	91	581871	5.751 ng		94
67) m- & p-Xylene	22.12	91	919031	13.587 ng		91
68) Bromoform	22.21	173	126010	8.433 ng		99
69) Styrene	22.57	104	348304	5.967 ng		98
70) o-Xylene	22.71	91	470480	6.463 ng		93
71) n-Nonane	22.98	43	288186	4.944 ng	#	82
72) 1,1,2,2-Tetrachloroethane	22.69	83	210731	6.066 ng		97
74) Cumene	23.46	105	554593	6.006 ng		100
75) alpha-Pinene	23.96	93	281388	5.733 ng		93
76) n-Propylbenzene	24.10	91	701092	5.673 ng		97
77) 3-Ethyltoluene	24.23	105	562110	5.583 ng		98
78) 4-Ethyltoluene	24.28	105	597609	6.446 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	503181	6.111 ng		98

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	261042	5.987 ng	98
81) 2-Ethyltoluene	24.61	105	571215	5.644 ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	530732	5.705 ng	98
83) n-Decane	24.98	57	280459	5.451 ng	86
84) Benzyl Chloride	25.04	91	355075	5.599 ng	97
85) 1,3-Dichlorobenzene	25.08	146	317586	6.305 ng	100
86) 1,4-Dichlorobenzene	25.16	146	320921	6.658 ng	100
87) sec-Butylbenzene	25.21	105	669348	6.128 ng	98
88) p-Isopropyltoluene	25.40	119	609096	6.394 ng	94
89) 1,2,3-Trimethylbenzene	25.40	105	526166	5.751 ng	98
90) 1,2-Dichlorobenzene	25.58	146	311311	6.031 ng	100
91) d-Limonene	25.57	68	203342	4.820 ng	99
92) 1,2-Dibromo-3-Chloropr...	26.10	157	96726	7.073 ng	88
93) n-Undecane	26.50	57	295284	5.467 ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	226237	7.072 ng	96
95) Naphthalene	27.77	128	674861	6.561 ng	98
96) n-Dodecane	27.74	57	288982	5.273 ng	83
97) Hexachloro-1,3-butadiene	28.19	225	150775	7.319 ng	100

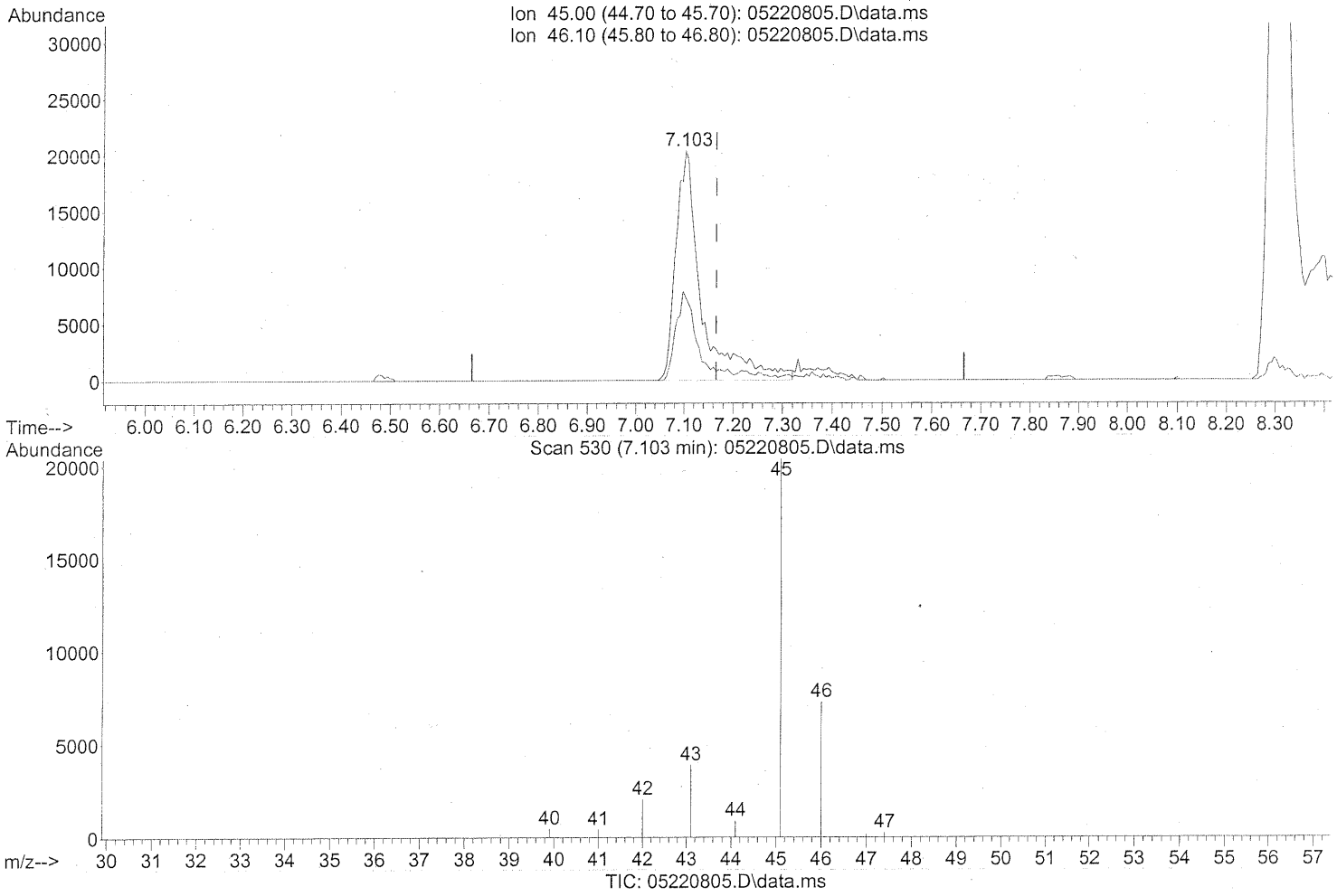
(#) = qualifier out of range (m) = manual integration (+) = signals summed

05/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.063) 3.40ng

response 75261

TAILING

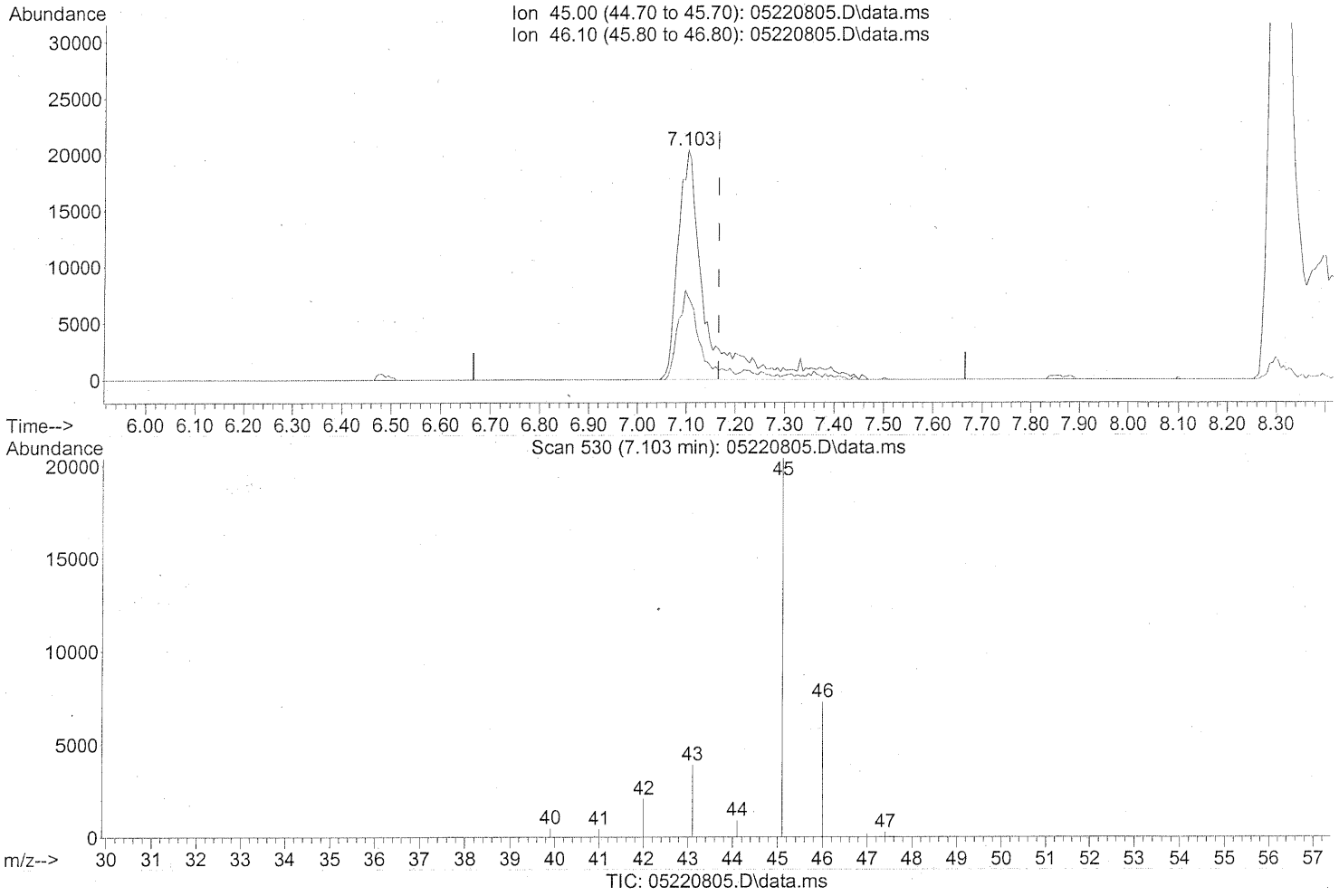
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.13
0.00	0.00	0.00
0.00	0.00	0.00

1122

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.063) 3.68ng m

response 81383

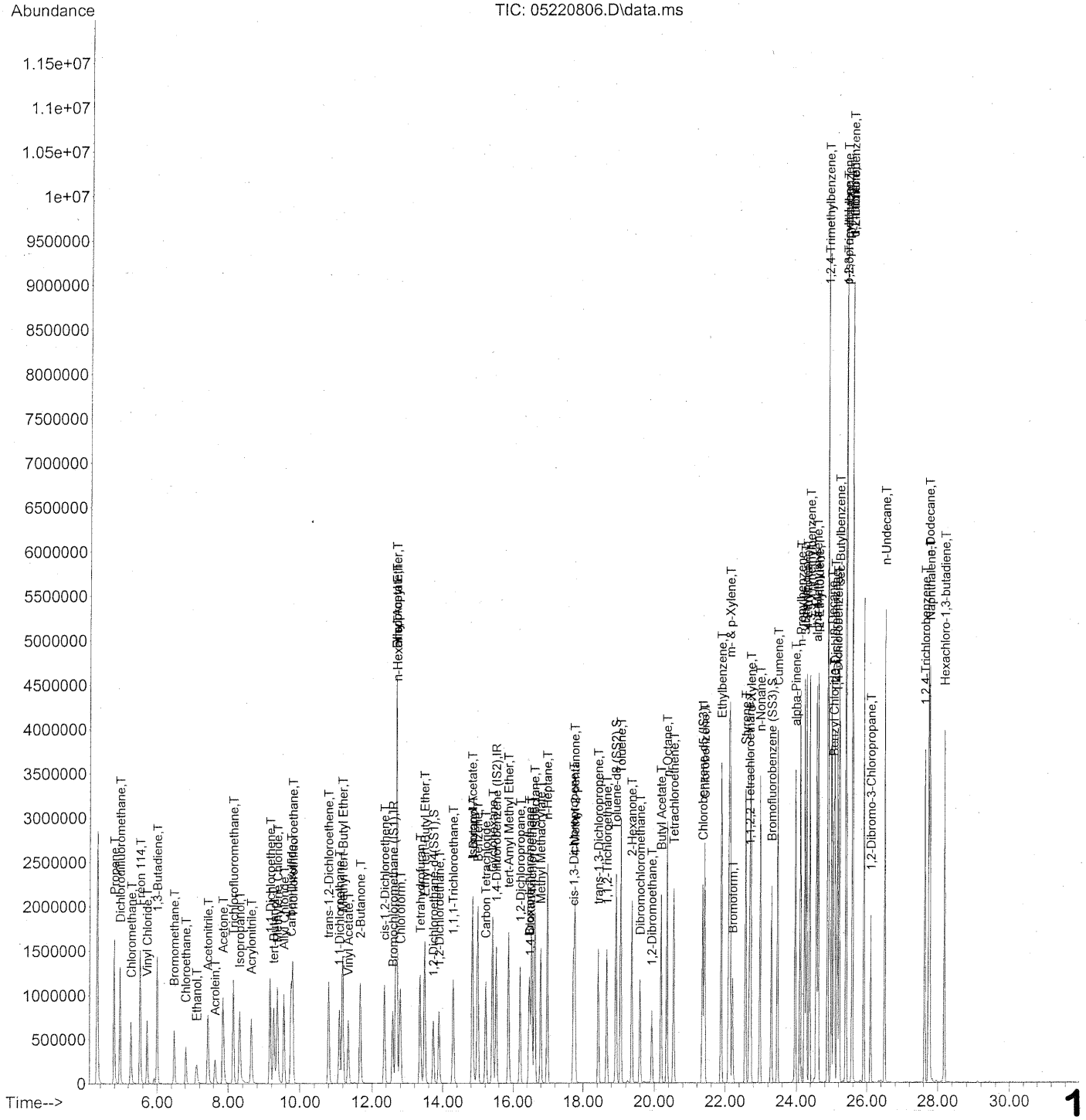
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.71
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
5/22/08
5/22/08

1123

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39 am
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39 am
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	416973	25.000	ng		-0.01
37) 1,4-Difluorobenzene (IS2)	15.52	114	1789357	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	21.35	82	864655	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	715546	21.398	ng		-0.02
Spiked Amount 25.000			Recovery =	85.60% ✓			
57) Toluene-d8 (SS2)	18.93	98	1925065	24.839	ng		0.00
Spiked Amount 25.000			Recovery =	99.36% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	804956	30.182	ng		0.00
Spiked Amount 25.000			Recovery =	120.72% ✓			
Target Compounds							Qvalue
2) Propene	4.79	42	762505	22.094	ng		88
3) Dichlorodifluoromethane	4.96	85	1436855	22.837	ng		100
4) Chloromethane	5.28	50	991714	18.861	ng		97
5) Freon 114	5.52	135	719512	23.356	ng		99
6) Vinyl Chloride	5.72	62	949617	19.405	ng		96
7) 1,3-Butadiene	6.00	54	813723	21.504	ng	#	77
8) Bromomethane	6.48	94	536830	22.849	ng		99
9) Chloroethane	6.82	64	460399	22.709	ng		96
10) Ethanol	7.12	45	452905	19.243	ng		96
11) Acetonitrile	7.43	41	1312976	21.227	ng		96
12) Acrolein	7.64	56	365766	21.992	ng		99
13) Acetone	7.86	58	543405	23.543	ng	#	59
14) Trichlorofluoromethane	8.14	101	1261154	25.511	ng		100
15) Isopropanol	8.32	45	1744228	22.331	ng		95
16) Acrylonitrile	8.64	53	877116	24.490	ng		98
17) 1,1-Dichloroethene	9.16	96	615935	26.749	ng	#	81
18) tert-Butanol	9.26	59	1602928	24.744	ng		90
19) Methylene Chloride	9.36	84	639063	24.103	ng		84
20) Allyl Chloride	9.55	41	987824	27.887	ng		99
21) Trichlorotrifluoroethane	9.81	151	618296	29.270	ng		96
22) Carbon Disulfide	9.76	76	2212349	22.504	ng		96
23) trans-1,2-Dichloroethene	10.80	61	980658	24.435	ng		84
24) 1,1-Dichloroethane	11.10	63	1145632	24.528	ng		95
25) Methyl tert-Butyl Ether	11.19	73	1917321	24.994	ng		86
26) Vinyl Acetate	11.35	86	116272	25.354	ng	#	96
27) 2-Butanone	11.68	72	443899	27.424	ng		97
28) cis-1,2-Dichloroethene	12.36	61	935518	24.736	ng		84
29) Diisopropyl Ether	12.69	87	495247	23.302	ng	#	88
30) Ethyl Acetate	12.69	61	281602	27.909	ng		79
31) n-Hexane	12.70	57	1215561	23.179	ng		90

1125

5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39 am
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	12.80	83	1136032	29.181 ng		100
34) Tetrahydrofuran	13.36	72	425202	26.263 ng		94
35) Ethyl tert-Butyl Ether	13.48	87	718287	25.700 ng	#	76
36) 1,2-Dichloroethane	13.90	62	955069	24.770 ng		98
38) 1,1,1-Trichloroethane	14.29	97	1053711	28.261 ng		97
39) Isopropyl Acetate	14.83	61	411835	25.310 ng	#	42
40) 1-Butanol	14.84	56	603998	24.731 ng	#	59
41) Benzene	14.99	78	2468333	26.003 ng		99
42) Carbon Tetrachloride	15.21	117	972741	30.984 ng		99
43) Cyclohexane	15.41	84	951654	27.102 ng	#	75
44) tert-Amyl Methyl Ether	15.87	73	1717895	25.432 ng		93
45) 1,2-Dichloropropane	16.20	63	656264	24.125 ng		98
46) Bromodichloromethane	16.46	83	892908	27.666 ng		99
47) Trichloroethene	16.54	130	717464	30.721 ng		100
48) 1,4-Dioxane	16.49	88	488486	29.064 ng		81
49) Isooctane	16.62	57	2708375	24.098 ng		79
50) Methyl Methacrylate	16.79	100	259495	30.103 ng		89
51) n-Heptane	16.98	71	690272	26.248 ng	#	79
52) cis-1,3-Dichloropropene	17.73	75	994088	26.881 ng		99
53) 4-Methyl-2-pentanone	17.77	58	666973	25.688 ng		80
54) trans-1,3-Dichloropropene	18.43	75	1001703	31.356 ng		100
55) 1,1,2-Trichloroethane	18.67	97	615078	26.907 ng		98
58) Toluene	19.07	91	2757560	28.319 ng		98
59) 2-Hexanone	19.37	43	1934323	26.668 ng		82
60) Dibromochloromethane	19.60	129	806828	34.355 ng		99
61) 1,2-Dibromoethane	19.93	107	733584	32.043 ng		100
62) Butyl Acetate	20.19	43	2047043	28.223 ng		86
63) n-Octane	20.35	57	600585	26.315 ng		90
64) Tetrachloroethene	20.55	166	798091	32.735 ng		99
65) Chlorobenzene	21.41	112	1853589	30.734 ng		100
66) Ethylbenzene	21.89	91	3251306	29.903 ng		94
67) m- & p-Xylene	22.13	91	5254327	72.293 ng		92
68) Bromoform	22.21	173	742658	46.253 ng		99
69) Styrene	22.57	104	1998118	31.854 ng		97
70) o-Xylene	22.72	91	2640019	33.753 ng		93
71) n-Nonane	22.98	43	1643415	26.237 ng	#	82
72) 1,1,2,2-Tetrachloroethane	22.69	83	1205766	32.301 ng		97
74) Cumene	23.47	105	3116293	31.410 ng		100
75) alpha-Pinene	23.97	93	1613330	30.592 ng		95
76) n-Propylbenzene	24.10	91	4011480	30.210 ng		98
77) 3-Ethyltoluene	24.23	105	3283639	30.351 ng		99
78) 4-Ethyltoluene	24.28	105	3333214	33.460 ng		99
79) 1,3,5-Trimethylbenzene	24.38	105	2850246	32.216 ng		99

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39 am
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1552921	33.146	ng	98
81) 2-Ethyltoluene	24.61	105	3255355	29.932	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	3101955	31.029	ng	99
83) n-Decane	24.99	57	1623112	29.359	ng	86
84) Benzyl Chloride	25.05	91	2339844	34.336	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1810597	33.455	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1821585	35.171	ng	99
87) sec-Butylbenzene	25.21	105	3795451	32.337	ng	98
88) p-Isopropyltoluene	25.40	119	3608029	35.250	ng	95
89) 1,2,3-Trimethylbenzene	25.41	105	3070241	31.230	ng	99
90) 1,2-Dichlorobenzene	25.58	146	1780747	32.105	ng	99
91) d-Limonene	25.58	68	1230457	27.146	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	591373	40.245	ng	91
93) n-Undecane	26.50	57	1720154	29.636	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	1310788	38.132	ng	96
95) Naphthalene	27.77	128	3956580	35.798	ng	99
96) n-Dodecane	27.74	57	1737723	29.508	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	850097	38.402	ng	100

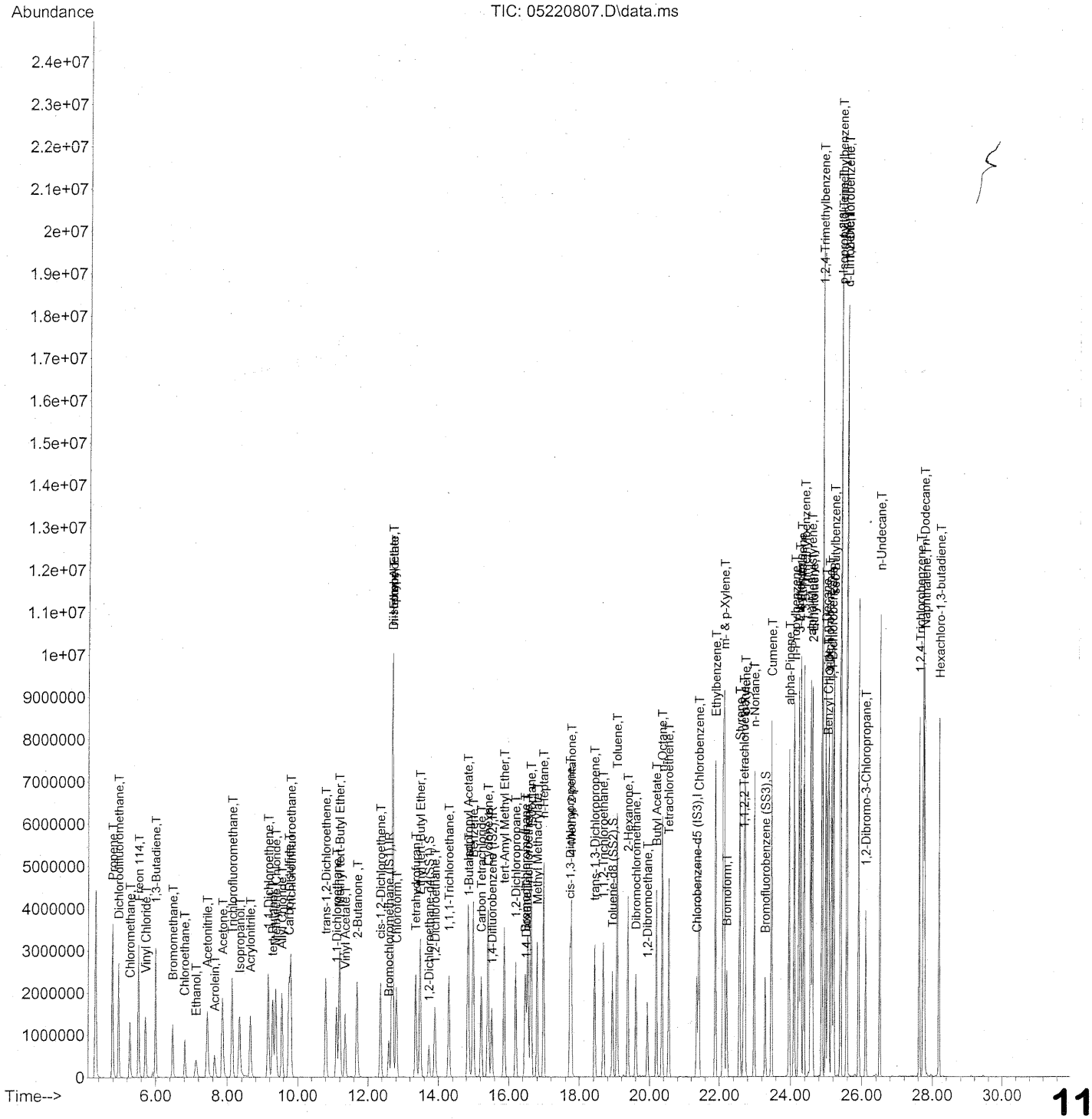
(#) = qualifier out of range (m) = manual integration (+) = signals summed

05/22/08

1127

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	454188	25.000	ng		0.01
37) 1,4-Difluorobenzene (IS2)	15.53	114	1924432	25.000	ng		0.01
56) Chlorobenzene-d5 (IS3)	21.36	82	936145	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.74	65	765682	23.208	ng		0.01
Spiked Amount 25.000			Recovery =	92.84% ✓			
57) Toluene-d8 (SS2)	18.93	98	2057293	24.538	ng		0.00
Spiked Amount 25.000			Recovery =	98.16% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	864419	26.619	ng		0.00
Spiked Amount 25.000			Recovery =	106.48% ✓			
Target Compounds							Qvalue
2) Propene	4.79	42	1702217	45.626	ng		90
3) Dichlorodifluoromethane	4.95	85	2981591	43.773	ng		100
4) Chloromethane	5.27	50	1894393	39.547	ng		97
5) Freon 114	5.52	135	1511964	44.647	ng		99
6) Vinyl Chloride	5.71	62	1982331	42.843	ng		96
7) 1,3-Butadiene	5.99	54	1751847	50.034	ng	#	78
8) Bromomethane	6.48	94	1147873	45.701	ng		99
9) Chloroethane	6.81	64	984146	46.080	ng		95
10) Ethanol	7.14	45	980730	40.554	ng		95
11) Acetonitrile	7.44	41	2851538	40.927	ng		97
12) Acrolein	7.65	56	792345	45.513	ng		99
13) Acetone	7.87	58	1155032	38.351	ng	#	62
14) Trichlorofluoromethane	8.14	101	2653036	46.367	ng		100
15) Isopropanol	8.34	45	3422080m	42.083	ng		
16) Acrylonitrile	8.65	53	1880949	49.196	ng		99
17) 1,1-Dichloroethene	9.16	96	1316988	52.309	ng	#	79
18) tert-Butanol	9.28	59	3398574	47.307	ng		91
19) Methylene Chloride	9.37	84	1352050	48.646	ng		83
20) Allyl Chloride	9.55	41	2169612	57.961	ng		99
21) Trichlorotrifluoroethane	9.81	151	1321714	51.616	ng		95
22) Carbon Disulfide	9.76	76	4679422	43.497	ng		96
23) trans-1,2-Dichloroethene	10.80	61	2084796	49.585	ng		85
24) 1,1-Dichloroethane	11.11	63	2435183	49.685	ng		95
25) Methyl tert-Butyl Ether	11.19	73	4047308	49.630	ng		86
26) Vinyl Acetate	11.35	86	257899	61.046	ng	#	96
27) 2-Butanone	11.69	72	939216	51.447	ng		94
28) cis-1,2-Dichloroethene	12.36	61	1976621	49.333	ng		85
29) Diisopropyl Ether	12.69	87	1062905	45.266	ng	#	90
30) Ethyl Acetate	12.70	61	620656	58.156	ng		79
31) n-Hexane	12.70	57	2606180	48.376	ng		90

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.81	83	2387290	56.390	ng		100
34) Tetrahydrofuran	13.36	72	873088	49.555	ng		93
35) Ethyl tert-Butyl Ether	13.49	87	1519912	49.016	ng	#	76
36) 1,2-Dichloroethane	13.90	62	1967827	47.558	ng		98
38) 1,1,1-Trichloroethane	14.30	97	2208142	50.337	ng		97
39) Isopropyl Acetate	14.84	61	873634	52.133	ng	#	45
40) 1-Butanol	14.86	56	1313131	50.723	ng	#	64
41) Benzene	14.99	78	5181804	50.503	ng		99
42) Carbon Tetrachloride	15.22	117	2050221	53.356	ng		99
43) Cyclohexane	15.42	84	1998084	50.165	ng	#	76
44) tert-Amyl Methyl Ether	15.87	73	3643868	49.255	ng		94
45) 1,2-Dichloropropane	16.20	63	1384060	49.886	ng		99
46) Bromodichloromethane	16.47	83	1894467	54.264	ng		100
47) Trichloroethene	16.54	130	1496111	48.844	ng		100
48) 1,4-Dioxane	16.50	88	1034911	53.471	ng		81
49) Isooctane	16.63	57	5664489	47.276	ng		79
50) Methyl Methacrylate	16.81	100	547862	55.294	ng		89
51) n-Heptane	16.99	71	1437618	52.152	ng	#	80
52) cis-1,3-Dichloropropene	17.73	75	2107625	51.402	ng		99
53) 4-Methyl-2-pentanone	17.77	58	1415573	51.262	ng		81
54) trans-1,3-Dichloropropene	18.43	75	2143285	60.836	ng		100
55) 1,1,2-Trichloroethane	18.67	97	1292274	51.574	ng		98
58) Toluene	19.07	91	5764092	50.193	ng		99
59) 2-Hexanone	19.38	43	4048530	50.407	ng		83
60) Dibromochloromethane	19.61	129	1698069	56.848	ng		98
61) 1,2-Dibromoethane	19.94	107	1545522	53.027	ng		100
62) Butyl Acetate	20.19	43	4286534	52.669	ng		87
63) n-Octane	20.36	57	1281368	49.489	ng		90
64) Tetrachloroethene	20.55	166	1678655	51.147	ng		99
65) Chlorobenzene	21.42	112	3910630	51.780	ng		100
66) Ethylbenzene	21.89	91	6762491	51.250	ng		95
67) m- & p-Xylene	22.13	91	10953492	121.782	ng		93
68) Bromoform	22.21	173	1568481	71.574	ng		99
69) Styrene	22.58	104	4217026	54.221	ng		97
70) o-Xylene	22.72	91	5530335	57.451	ng		94
71) n-Nonane	22.99	43	3423415	49.404	ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.69	83	2573642	63.796	ng		98
74) Cumene	23.47	105	6524352	51.467	ng		98
75) alpha-Pinene	23.97	93	3448151	52.529	ng		96
76) n-Propylbenzene	24.11	91	8176336	50.385	ng		99
77) 3-Ethyltoluene	24.23	105	6910758	51.365	ng		100
78) 4-Ethyltoluene	24.28	105	6763625	53.268	ng		99
79) 1,3,5-Trimethylbenzene	24.38	105	5917484	51.578	ng		100

1130

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration

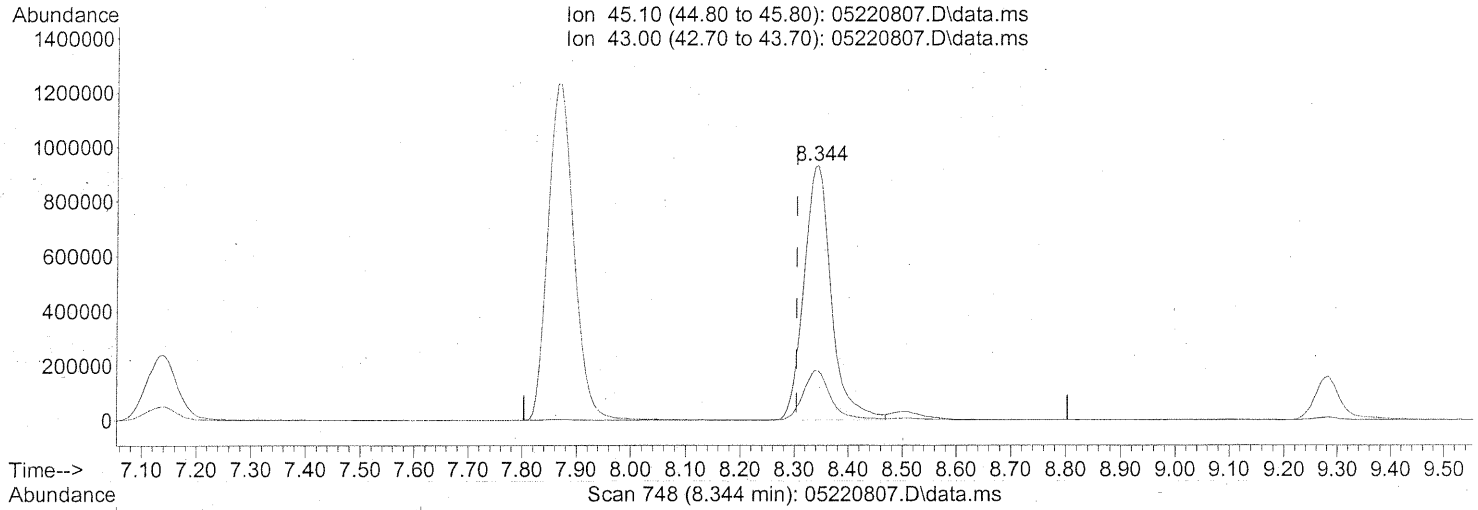
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	3260246	53.476	ng	97
81) 2-Ethyltoluene	24.62	105	6680322	48.849	ng	99
82) 1,2,4-Trimethylbenzene	24.89	105	6443274	51.595	ng	100
83) n-Decane	24.99	57	3353219	51.063	ng	85
84) Benzyl Chloride	25.05	91	5061948	64.084	ng	99
85) 1,3-Dichlorobenzene	25.08	146	3792345	52.804	ng	100
86) 1,4-Dichlorobenzene	25.16	146	3789076	54.907	ng	100
87) sec-Butylbenzene	25.22	105	7755102	52.228	ng	97
88) p-Isopropyltoluene	25.41	119	7381347	56.902	ng	94
89) 1,2,3-Trimethylbenzene	25.41	105	6401281	52.335	ng	100
90) 1,2-Dichlorobenzene	25.58	146	3698897	50.240	ng	99
91) d-Limonene	25.58	68	2592765	49.784	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	1267680	64.225	ng	93
93) n-Undecane	26.50	57	3628478	52.700	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	2831281	57.870	ng	95
95) Naphthalene	27.78	128	8221504	54.942	ng	100
96) n-Dodecane	27.74	57	3720630	54.418	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	1857176	56.635	ng	99

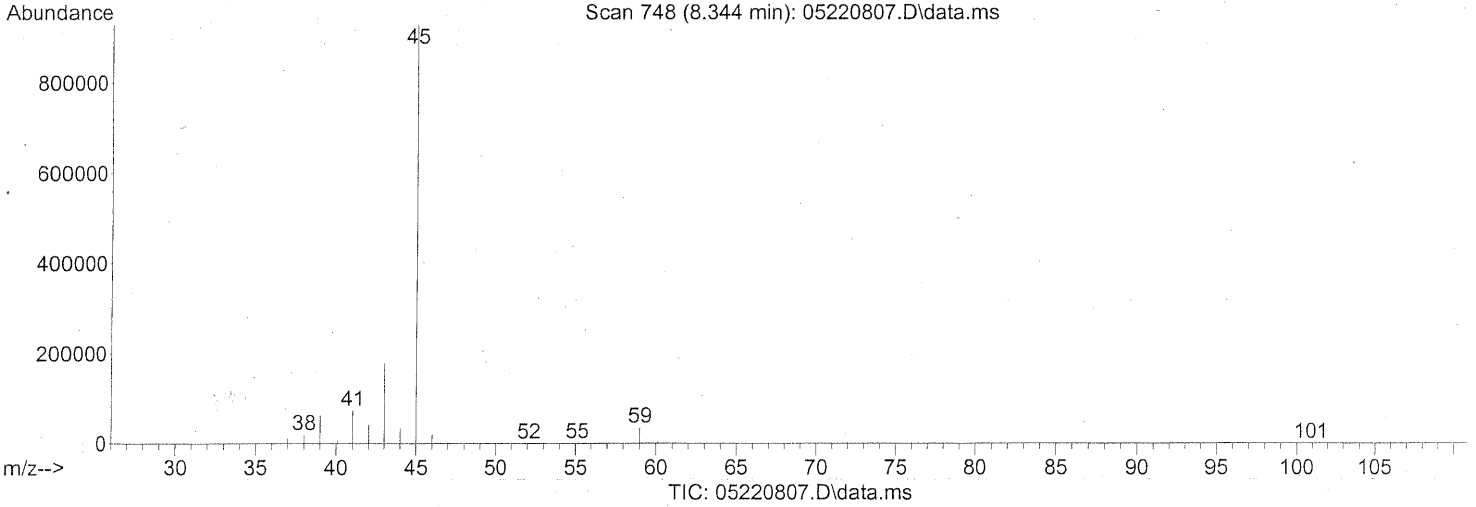
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration





TIC: 05220807.D\data.ms

(15) Isopropanol (T)

8.344min (+0.040) 40.42ng

response 3286841

TAILING

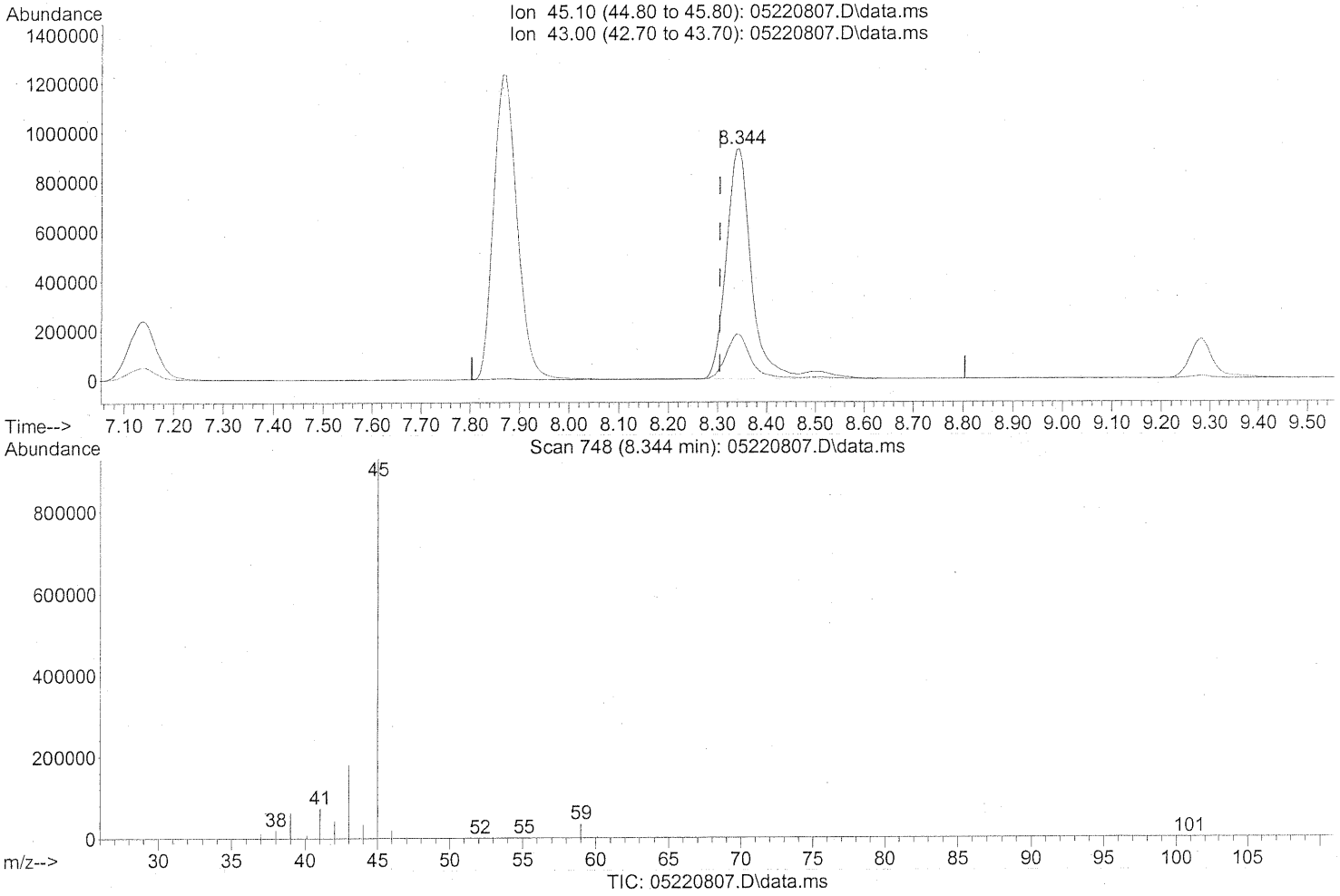
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	19.24
0.00	0.00	0.00
0.00	0.00	0.00

1132

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.344min (+0.040) 42.08ng m

response 3422080

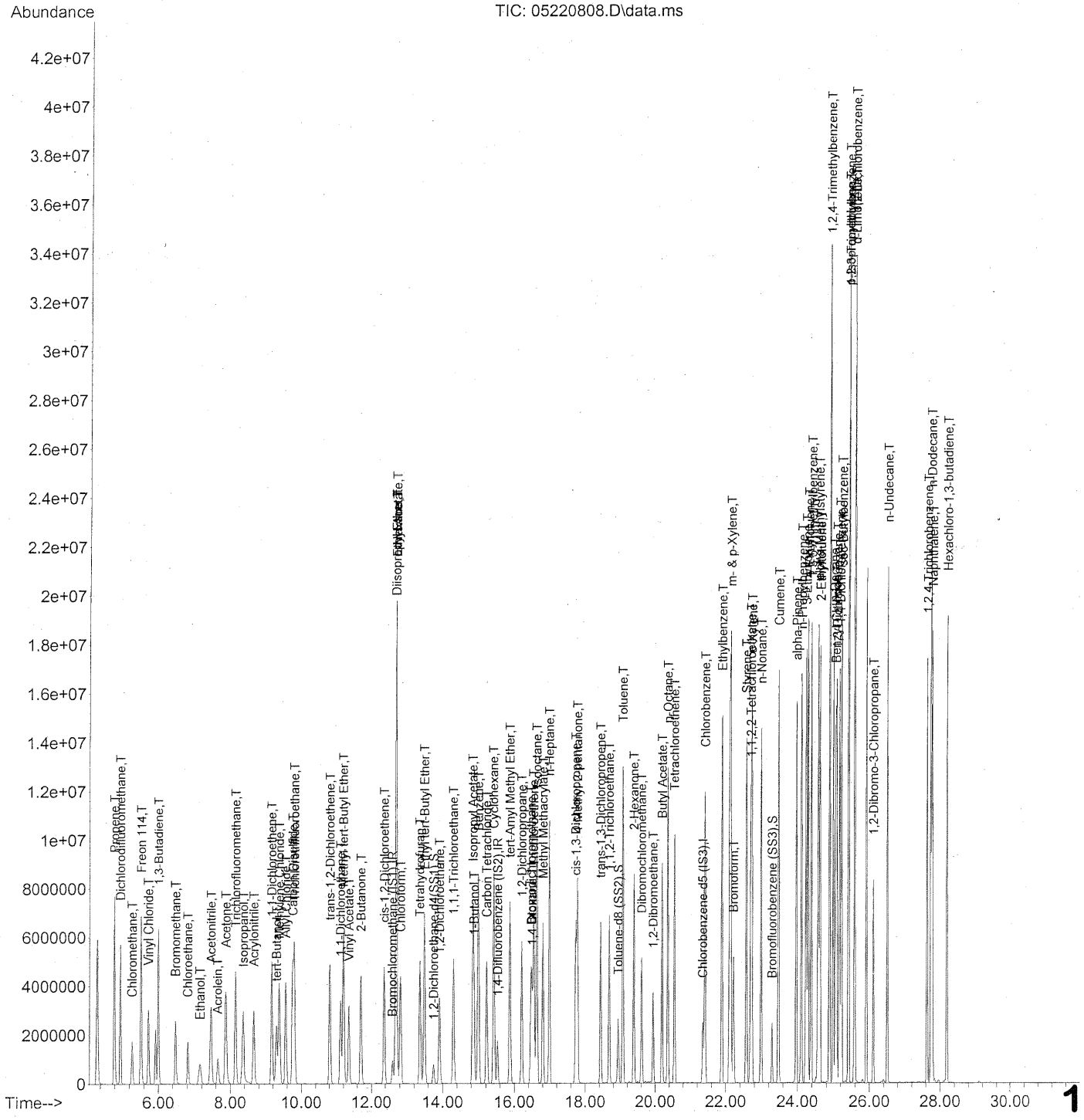
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	18.48
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING
BO 5/22/08
EM 5/22/08

1133

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01 am
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:18:59 2008
Response via : Initial Calibration



1134

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01 am
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:18:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.60	130	499844	25.000	ng		0.02
37) 1,4-Difluorobenzene (IS2)	15.53	114	2090195	25.000	ng		0.02
56) Chlorobenzene-d5 (IS3)	21.36	82	998042	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.75	65	821224	23.131	ng		0.02
Spiked Amount 25.000			Recovery =	92.52% ✓			
57) Toluene-d8 (SS2)	18.94	98	2226768	24.907	ng		0.01
Spiked Amount 25.000			Recovery =	99.64% ✓			
73) Bromofluorobenzene (SS3)	23.30	174	935196	26.328	ng		0.00
Spiked Amount 25.000			Recovery =	105.32% ✓			
Target Compounds							Qvalue
2) Propene	4.79	42	3618365	89.313	ng		91
3) Dichlorodifluoromethane	4.95	85	6233410	83.923	ng		99
4) Chloromethane	5.27	50	2613249	51.906	ng		97
5) Freon 114	5.52	135	3331516	90.532	ng		99
6) Vinyl Chloride	5.72	62	4258812	86.338	ng		95
7) 1,3-Butadiene	6.00	54	3733563	100.640	ng	#	78
8) Bromomethane	6.48	94	2454975	90.476	ng		99
9) Chloroethane	6.82	64	2104947	90.683	ng		95
10) Ethanol	7.15	45	2128819	80.341	ng		95
11) Acetonitrile	7.47	41	6047148	78.947	ng		96
12) Acrolein	7.65	56	1713269	90.046	ng		99
13) Acetone	7.88	58	2480814	75.471	ng	#	69
14) Trichlorofluoromethane	8.15	101	5619271	89.141	ng		100
15) Isopropanol	8.37	45	6968359	79.132	ng		95
16) Acrylonitrile	8.66	53	4003929	96.055	ng		98
17) 1,1-Dichloroethene	9.16	96	2816711	101.627	ng	#	78
18) tert-Butanol	9.30	59	4339050	55.424	ng		90
19) Methylene Chloride	9.37	84	2894936	95.058	ng	#	82
20) Allyl Chloride	9.56	41	4725704	115.661	ng		99
21) Trichlorotrifluoroethane	9.81	151	2795872	98.032	ng		95
22) Carbon Disulfide	9.77	76	9906306	84.782	ng		95
23) trans-1,2-Dichloroethene	10.81	61	4508123	98.826	ng		84
24) 1,1-Dichloroethane	11.12	63	5197608	97.423	ng		95
25) Methyl tert-Butyl Ether	11.20	73	8560648	96.251	ng		87
26) Vinyl Acetate	11.36	86	584588	126.385	ng	#	86
27) 2-Butanone	11.70	72	1930849	96.606	ng	#	90
28) cis-1,2-Dichloroethene	12.37	61	4225200	97.160	ng		83
29) Diisopropyl Ether	12.70	87	2241936	88.201	ng	#	87
30) Ethyl Acetate	12.71	61	1322393	115.760	ng		79
31) n-Hexane	12.71	57	5495351	95.245	ng		90

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01 am
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:18:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.82	83	5076347	109.731	ng		100
34) Tetrahydrofuran	13.36	72	1822782	95.305	ng		93
35) Ethyl tert-Butyl Ether	13.49	87	3270454	95.746	ng	#	74
36) 1,2-Dichloroethane	13.91	62	4127321	91.824	ng		97
38) 1,1,1-Trichloroethane	14.30	97	4698078	98.102	ng		96
39) Isopropyl Acetate	14.85	61	1868872	102.984	ng	#	54
40) 1-Butanol	14.88	56	2791756	97.697	ng	#	66
41) Benzene	15.00	78	10862072	97.961	ng		98
42) Carbon Tetrachloride	15.22	117	4396527	104.214	ng		99
43) Cyclohexane	15.42	84	4341704	100.544	ng	#	76
44) tert-Amyl Methyl Ether	15.88	73	7750761	97.021	ng		94
45) 1,2-Dichloropropane	16.21	63	2995074	100.524	ng		99
46) Bromodichloromethane	16.48	83	4038109	107.117	ng		100
47) Trichloroethene	16.55	130	3275567	97.388	ng		99
48) 1,4-Dioxane	16.51	88	2240784	106.812	ng		82
49) Isooctane	16.64	57	11898201	92.431	ng		80
50) Methyl Methacrylate	16.81	100	1175755	107.816	ng		90
51) n-Heptane	16.99	71	3110452	104.634	ng	#	80
52) cis-1,3-Dichloropropene	17.74	75	4505013	101.650	ng		100
53) 4-Methyl-2-pentanone	17.79	58	3035968	102.112	ng		80
54) trans-1,3-Dichloropropene	18.44	75	4596030	120.483	ng		99
55) 1,1,2-Trichloroethane	18.68	97	2798170	102.528	ng		97
58) Toluene	19.07	91	11935621	97.032	ng		99
59) 2-Hexanone	19.39	43	8273154	97.077	ng		85
60) Dibromochloromethane	19.61	129	3659026	112.467	ng		98
61) 1,2-Dibromoethane	19.94	107	3324092	105.186	ng		100
62) Butyl Acetate	20.20	43	8830378	102.235	ng		88
63) n-Octane	20.36	57	2732318	99.278	ng		91
64) Tetrachloroethene	20.55	166	3697436	103.310	ng		100
65) Chlorobenzene	21.42	112	8257282	101.037	ng		98
66) Ethylbenzene	21.90	91	13475481	95.315	ng		100
67) m- & p-Xylene	22.14	91	21735890	226.751	ng		97
68) Bromoform	22.22	173	3386774	140.735	ng		100
69) Styrene	22.58	104	8806510	104.763	ng		95
70) o-Xylene	22.73	91	11379968	110.493	ng		97
71) n-Nonane	22.99	43	7073437	96.240	ng	#	84
72) 1,1,2,2-Tetrachloroethane	22.70	83	5546058	129.023	ng		98
74) Cumene	23.48	105	12994730	95.422	ng		94
75) alpha-Pinene	23.97	93	7235722	102.454	ng		96
76) n-Propylbenzene	24.11	91	15249075	87.865	ng		95
77) 3-Ethyltoluene	24.24	105	13665128	94.255	ng		96
78) 4-Ethyltoluene	24.30	105	12869382	94.572	ng		94
79) 1,3,5-Trimethylbenzene	24.38	105	11704517	95.061	ng		96

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01 am
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

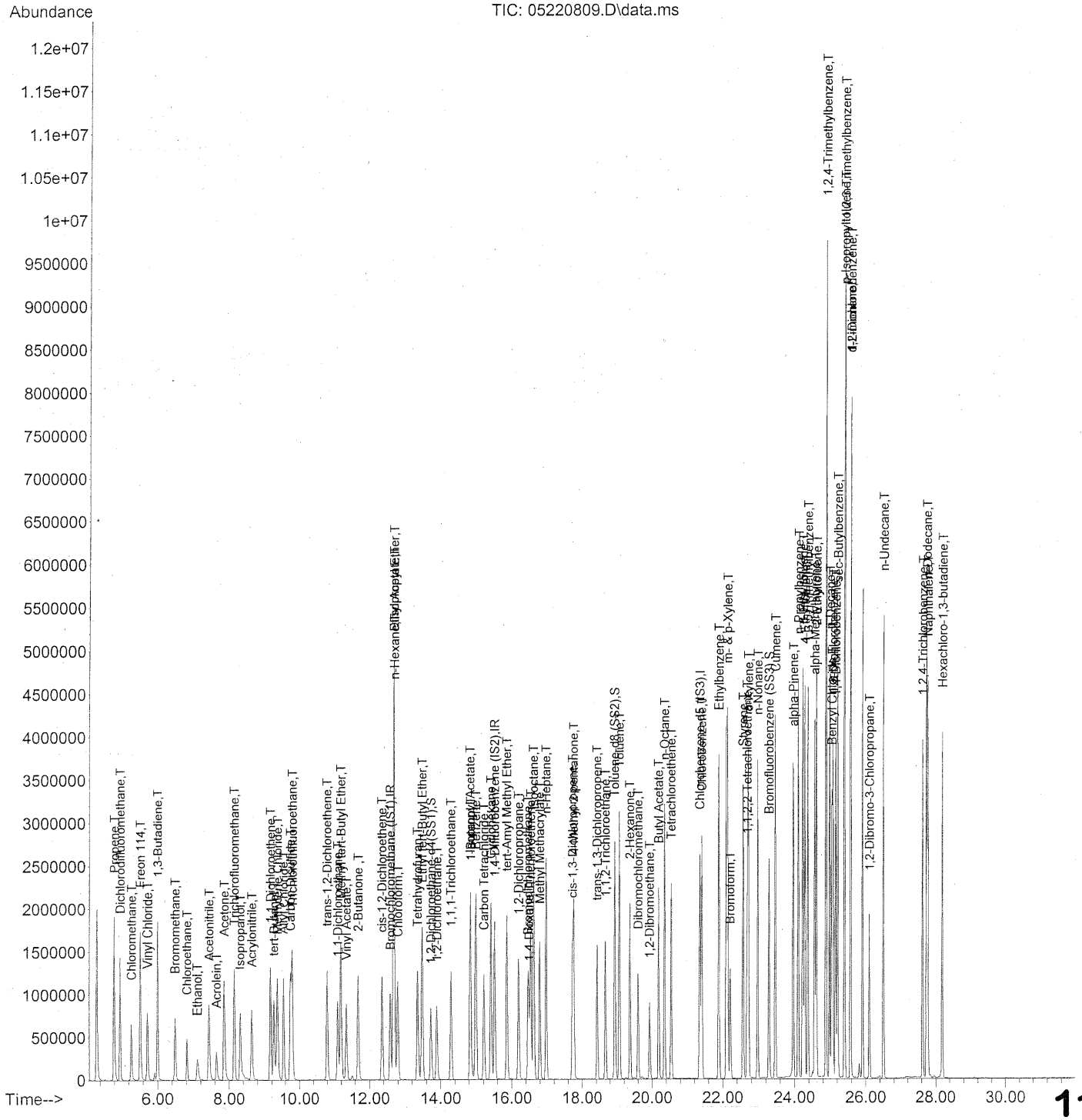
Quant Time: May 22 11:19:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:18:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	6793283	102.591	ng	97
81) 2-Ethyltoluene	24.63	105	12944985	87.872	ng	95
82) 1,2,4-Trimethylbenzene	24.90	105	12183750	93.691	ng	98
83) n-Decane	25.00	57	6684949	95.503	ng	84
84) Benzyl Chloride	25.06	91	10394950	122.582	ng	98
85) 1,3-Dichlorobenzene	25.09	146	7799683	99.904	ng	99
86) 1,4-Dichlorobenzene	25.17	146	7808346	103.898	ng	98
87) sec-Butylbenzene	25.22	105	14254088	89.336	ng	92
88) p-Isopropyltoluene	25.41	119	13122108	97.057	ng	90
89) 1,2,3-Trimethylbenzene	25.42	105	12020170	94.382	ng	98
90) 1,2-Dichlorobenzene	25.59	146	7117955	91.406	ng	98
91) d-Limonene	25.58	68	5122339	94.899	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.11	157	2745855	125.009	ng	96
93) n-Undecane	26.51	57	7238505	98.491	ng	82
94) 1,2,4-Trichlorobenzene	27.64	180	6082208	113.506	ng	94
95) Naphthalene	27.78	128	15301122	93.920	ng	95
96) n-Dodecane	27.74	57	7513203	102.717	ng	80
97) Hexachloro-1,3-butadiene	28.19	225	4111380	114.428	ng	99

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

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41 am
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:20:46 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41 am
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:20:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	526986	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	2202027	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1025095	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	856754	23.463	ng		0.00
Spiked Amount 25.000			Recovery =	93.84% ✓			
57) Toluene-d8 (SS2)	18.93	98	2305788	25.046	ng		0.00
Spiked Amount 25.000			Recovery =	100.20% ✓			
73) Bromofluorobenzene (SS3)	23.29	174	957507	25.576	ng		0.00
Spiked Amount 25.000			Recovery =	102.32% ✓			
Target Compounds							Qvalue
2) Propene	4.79	42	904492	21.732	ng		89
3) Dichlorodifluoromethane	4.96	85	1592833	20.763	ng		100
4) Chloromethane	5.28	50	951593	19.156	ng		97
5) Freon 114	5.52	135	846788	22.439	ng		99
6) Vinyl Chloride	5.72	62	1083652	21.802	ng		96
7) 1,3-Butadiene	5.99	54	1063896	28.776	ng	#	80
8) Bromomethane	6.48	94	657228	23.743	ng		99
9) Chloroethane	6.82	64	546673	23.153	ng		96
10) Ethanol	7.11	45	522833	18.869	ng		95
11) Acetonitrile	7.43	41	1535229	19.160	ng		99
12) Acrolein	7.64	56	448122	22.640	ng		99
13) Acetone	7.86	58	679311	23.946	ng	#	70
14) Trichlorofluoromethane	8.14	101	1461864	22.211	ng		100
15) Isopropanol	8.32	45	1791646	19.802	ng		97
16) Acrylonitrile	8.64	53	1021254	23.643	ng		98
17) 1,1-Dichloroethene	9.16	96	711330	24.569	ng	#	77
18) tert-Butanol	9.26	59	1820081	23.651	ng		91
19) Methylene Chloride	9.36	84	731536	23.074	ng	#	80
20) Allyl Chloride	9.55	41	1238821	29.284	ng		100
21) Trichlorotrifluoroethane	9.81	151	704259	23.529	ng		94
22) Carbon Disulfide	9.76	76	2534413	21.066	ng		97
23) trans-1,2-Dichloroethene	10.80	61	1111763	23.707	ng		83
24) 1,1-Dichloroethane	11.10	63	1307596	23.769	ng		96
25) Methyl tert-Butyl Ether	11.19	73	2142908	23.359	ng		86
26) Vinyl Acetate	11.35	86	160863	30.682	ng	#	80
27) 2-Butanone	11.68	72	493795	23.849	ng	#	91
28) cis-1,2-Dichloroethene	12.35	61	1043381	23.279	ng		82
29) Diisopropyl Ether	12.69	87	574546	22.646	ng	#	84
30) Ethyl Acetate	12.69	61	296591	26.536	ng		80
31) n-Hexane	12.70	57	1330931	23.599	ng		89

R 05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41 am
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:20:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.80	83	1256429	26.146	ng		100
34) Tetrahydrofuran	13.35	72	462519	23.366	ng	#	90
35) Ethyl tert-Butyl Ether	13.48	87	827620	23.294	ng	#	75
36) 1,2-Dichloroethane	13.90	62	1024639	22.070	ng		98
38) 1,1,1-Trichloroethane	14.29	97	1172977	23.390	ng		96
39) Isopropyl Acetate	14.83	61	470529	25.017	ng	#	55
40) 1-Butanol	14.84	56	553333	18.281	ng	#	52
41) Benzene	14.99	78	2737421	23.742	ng		99
42) Carbon Tetrachloride	15.21	117	1070287	24.104	ng		100
43) Cyclohexane	15.41	84	1063631	23.714	ng	#	75
44) tert-Amyl Methyl Ether	15.87	73	1966905	23.781	ng		94
45) 1,2-Dichloropropane	16.20	63	731352	23.707	ng		99
46) Bromodichloromethane	16.46	83	1003739	25.754	ng		99
47) Trichloroethene	16.54	130	779244	22.032	ng		100
48) 1,4-Dioxane	16.49	88	532567	24.490	ng		80
49) Isooctane	16.62	57	3122023	23.617	ng		81
50) Methyl Methacrylate	16.80	100	280468	24.343	ng	#	89
51) n-Heptane	16.98	71	738106	24.093	ng	#	80
52) cis-1,3-Dichloropropene	17.73	75	1093368	23.856	ng		98
53) 4-Methyl-2-pentanone	17.77	58	704061	22.999	ng		79
54) trans-1,3-Dichloropropene	18.43	75	1097339	27.755	ng		99
55) 1,1,2-Trichloroethane	18.67	97	675092	23.694	ng		97
58) Toluene	19.07	91	2956298	23.623	ng		98
59) 2-Hexanone	19.37	43	1910790	22.159	ng		83
60) Dibromochloromethane	19.60	129	870561	25.756	ng		99
61) 1,2-Dibromoethane	19.93	107	797380	24.343	ng		100
62) Butyl Acetate	20.19	43	2128474	24.318	ng		87
63) n-Octane	20.35	57	663984	23.991	ng		89
64) Tetrachloroethene	20.55	166	849341	22.937	ng		99
65) Chlorobenzene	21.41	112	1988254	23.699	ng		100
66) Ethylbenzene	21.89	91	3424846	23.867	ng		94
67) m- & p-Xylene	22.13	91	5432092	56.594	ng		92
68) Bromoform	22.21	173	811353	32.258	ng		99
69) Styrene	22.57	104	2078402	24.224	ng		98
70) o-Xylene	22.72	91	2764174	26.678	ng		94
71) n-Nonane	22.98	43	1755676	23.864	ng	#	84
72) 1,1,2,2-Tetrachloroethane	22.69	83	1287414	29.813	ng		97
74) Cumene	23.47	105	3407138	24.694	ng		99
75) alpha-Pinene	23.97	93	1694437	23.751	ng		96
76) n-Propylbenzene	24.10	91	4256280	24.244	ng		99
77) 3-Ethyltoluene	24.23	105	3497532	23.816	ng		99
78) 4-Ethyltoluene	24.28	105	3310164	24.177	ng		100
79) 1,3,5-Trimethylbenzene	24.37	105	2875327	23.246	ng		100

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Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41 am
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:20:46 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1446859	21.606	ng	98
81) 2-Ethyltoluene	24.61	105	3432797	23.065	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	3024740	24.019	ng	100
83) n-Decane	24.98	57	1706800	24.634	ng	85
84) Benzyl Chloride	25.05	91	2488736	29.453	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1830636	23.251	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1844553	24.167	ng	99
87) sec-Butylbenzene	25.21	105	3958133	24.591	ng	98
88) p-Isopropyltoluene	25.40	119	3670414	27.703	ng	95
89) 1,2,3-Trimethylbenzene	25.41	105	3191482	25.901	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1756962	23.529	ng	100
91) d-Limonene	25.58	68	1053273	20.994	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	635829	27.437	ng	94
93) n-Undecane	26.50	57	1797042	24.782	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	1355653	24.787	ng	96
95) Naphthalene	27.77	128	4000200	24.083	ng	99
96) n-Dodecane	27.74	57	1741563	24.150	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	871677	23.942	ng	99

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

05/22/08

1141

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05220809.D**
Data File Path: **J:\MS13\DATA\2008_05\22**
Operator: **RTB**
Date Acquired: **5/22/08 8:41**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV Standard**
Misc Info: **S20-04300802/S20-04290803**
Instrument Name: **GCMS13**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.79	21.73	26.3	82.6	70	130	*
3)	Dichlorodifluoromethane	4.96	20.76	25.5	81.4	70	130	*
4)	Chloromethane	5.28	19.16	24.5	78.2	70	130	*
5)	Freon 114	5.52	22.44	26.0	86.3	70	130	*
6)	Vinyl Chloride	5.72	21.80	24.8	87.9	70	130	*
7)	1,3-Butadiene	5.99	28.78	30.0	95.9	70	130	*
8)	Bromomethane	6.48	23.74	25.0	95.0	70	130	*
9)	Chloroethane	6.82	23.15	25.0	92.6	70	130	*
10)	Ethanol	7.11	18.87	23.8	79.3	70	130	*
11)	Acetonitrile	7.43	19.16	25.3	75.7	70	130	*
12)	Acrolein	7.64	22.64	24.8	91.3	70	130	*
13)	Acetone	7.86	23.95	26.8	89.4	70	130	*
14)	Trichlorofluoromethane	8.14	22.21	26.3	84.5	70	130	*
15)	Isopropanol	8.32	19.80	25.8	76.8	70	130	*
16)	Acrylonitrile	8.64	23.64	25.5	92.7	70	130	*
17)	1,1-Dichloroethene	9.16	24.57	27.8	88.4	70	130	*
18)	tert-Butanol	9.26	23.65	25.8	91.7	70	130	*
19)	Methylene Chloride	9.36	23.07	27.8	83.0	70	130	*
20)	Allyl Chloride	9.55	29.28	26.8	109.3	70	130	*
21)	Trichlorotrifluoroethane	9.81	23.53	27.8	84.6	70	130	*
22)	Carbon Disulfide	9.76	21.07	25.0	84.3	70	130	*
23)	trans-1,2-Dichloroethene	10.80	23.71	26.5	89.5	70	130	*
24)	1,1-Dichloroethane	11.10	23.77	26.8	88.7	70	130	*
25)	Methyl tert-Butyl Ether	11.19	23.36	26.8	87.2	70	130	*
26)	Vinyl Acetate	11.35	30.68	25.3	121.3	70	130	*
27)	2-Butanone	11.68	23.85	27.0	88.3	70	130	*
28)	cis-1,2-Dichloroethene	12.35	23.28	27.0	86.2	70	130	*
29)	Diisopropyl Ether	12.69	22.65	26.3	86.1	70	130	*
30)	Ethyl Acetate	12.69	26.54	29.3	90.6	70	130	*
31)	n-Hexane	12.70	23.60	27.0	87.4	70	130	*
32)	Chloroform	12.80	26.15	29.8	87.7	70	130	*
34)	Tetrahydrofuran	13.35	23.37	26.8	87.2	70	130	*
35)	Ethyl tert-Butyl Ether	13.48	23.29	26.0	89.6	70	130	*
36)	1,2-Dichloroethane	13.90	22.07	26.3	83.9	70	130	*
38)	1,1,1-Trichloroethane	14.29	23.39	26.8	87.3	70	130	*
39)	Isopropyl Acetate	14.83	25.02	25.5	98.1	70	130	*

05/22/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05220809.D**
Data File Path: **J:\MS13\DATA\2008_05\22**
Operator: **RTB**
Date Acquired: **5/22/08 8:41**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV Standard**
Misc Info: **S20-04300802/S20-04290803**
Instrument Name: **GCMS13**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
40)	1-Butanol	14.84	18.28	24.8	73.7	70	130	*
41)	**Benzene**	**14.99**	**23.74**	**27.0**	**87.9**	**70**	**130**	*
42)	**Carbon Tetrachloride**	**15.21**	**24.10**	**26.0**	**92.7**	**70**	**130**	*
43)	Cyclohexane	15.41	23.71	26.8	88.5	70	130	*
44)	**tert-Amyl Methyl Ether**	**15.87**	**23.78**	**26.0**	**91.5**	**70**	**130**	*
45)	**1,2-Dichloropropane**	**16.20**	**23.71**	**26.5**	**89.5**	**70**	**130**	*
46)	**Bromodichloromethane**	**16.46**	**25.75**	**27.8**	**92.6**	**70**	**130**	*
47)	**Trichloroethene**	**16.54**	**22.03**	**27.3**	**80.7**	**70**	**130**	*
48)	**1,4-Dioxane**	**16.49**	**24.49**	**27.5**	**89.1**	**70**	**130**	*
49)	Isooctane	16.62	23.62	26.3	89.8	70	130	*
50)	Methyl Methacrylate	16.80	24.34	25.8	94.4	70	130	*
51)	n-Heptane	16.98	24.09	26.8	89.9	70	130	*
52)	**cis-1,3-Dichloropropene**	**17.73**	**23.86**	**25.0**	**95.4**	**70**	**130**	*
53)	**4-Methyl-2-pentanone**	**17.77**	**23.00**	**27.5**	**83.6**	**70**	**130**	*
54)	**trans-1,3-Dichloropropene**	**18.43**	**27.75**	**28.0**	**99.1**	**70**	**130**	*
55)	**1,1,2-Trichloroethane**	**18.67**	**23.69**	**26.3**	**90.1**	**70**	**130**	*
58)	**Toluene**	**19.07**	**23.62**	**26.5**	**89.1**	**70**	**130**	*
59)	**2-Hexanone**	**19.37**	**22.16**	**26.3**	**84.3**	**70**	**130**	*
60)	**Dibromochloromethane**	**19.60**	**25.76**	**27.0**	**95.4**	**70**	**130**	*
61)	**1,2-Dibromoethane**	**19.93**	**24.34**	**26.3**	**92.6**	**70**	**130**	*
62)	**Butyl Acetate**	**20.19**	**24.32**	**26.3**	**92.5**	**70**	**130**	*
63)	n-Octane	20.35	23.99	26.0	92.3	70	130	*
64)	**Tetrachloroethene**	**20.55**	**22.94**	**26.0**	**88.2**	**70**	**130**	*
65)	**Chlorobenzene**	**21.41**	**23.70**	**26.5**	**89.4**	**70**	**130**	*
66)	**Ethylbenzene**	**21.89**	**23.87**	**26.3**	**90.8**	**70**	**130**	*
67)	**m- & p-Xylene**	**22.13**	**56.59**	**62.5**	**90.6**	**70**	**130**	*
68)	**Bromoform**	**22.21**	**32.26**	**31.3**	**103.1**	**70**	**130**	*
69)	**Styrene**	**22.57**	**24.22**	**26.3**	**92.1**	**70**	**130**	*
70)	**o-Xylene**	**22.72**	**26.68**	**29.8**	**89.5**	**70**	**130**	*
71)	**n-Nonane**	**22.98**	**23.86**	**26.0**	**91.8**	**70**	**130**	*
72)	**1,1,2,2-Tetrachloroethane**	**22.69**	**29.81**	**29.8**	**100.0**	**70**	**130**	*
74)	**Cumene**	**23.47**	**24.69**	**27.0**	**91.5**	**70**	**130**	*
75)	**alpha-Pinene**	**23.97**	**23.75**	**26.3**	**90.3**	**70**	**130**	*
76)	n-Propylbenzene	24.10	24.24	26.3	92.2	70	130	*
77)	3-Ethyltoluene	24.23	23.82	25.5	93.4	70	130	*

05/22/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05220809.D**
Data File Path: **J:\MS13\DATA\2008_05\22**
Operator: **RTB**
Date Acquired: **5/22/08 8:41**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV Standard**
Misc Info: **S20-04300802/S20-04290803**
Instrument Name: **GCMS13**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
78)	**4-Ethyltoluene**	**24.28**	**24.18**	**26.5**	**91.2**	**70**	**130**	*
79)	**1,3,5-Trimethylbenzene**	**24.37**	**23.25**	**26.0**	**89.4**	**70**	**130**	*
80)	alpha-Methylstyrene	24.56	21.61	25.5	84.7	70	130	*
81)	2-Ethyltoluene	24.61	23.06	24.8	93.0	70	130	*
82)	**1,2,4-Trimethylbenzene**	**24.88**	**24.02**	**26.0**	**92.4**	**70**	**130**	*
83)	n-Decane	24.98	24.63	26.3	93.7	70	130	*
84)	**Benzyl Chloride**	**25.05**	**29.45**	**25.8**	**114.2**	**70**	**130**	*
85)	**1,3-Dichlorobenzene**	**25.08**	**23.25**	**25.5**	**91.2**	**70**	**130**	*
86)	**1,4-Dichlorobenzene**	**25.16**	**24.17**	**26.3**	**91.9**	**70**	**130**	*
87)	sec-Butylbenzene	25.21	24.59	26.8	91.8	70	130	*
88)	p-Isopropyltoluene	25.40	27.70	28.8	96.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.41	25.90	28.5	90.9	70	130	*
90)	**1,2-Dichlorobenzene**	**25.58**	**23.53**	**25.8**	**91.2**	**70**	**130**	*
91)	**d-Limonene**	**25.58**	**20.99**	**26.0**	**80.7**	**70**	**130**	*
92)	**1,2-Dibromo-3-Chloropropane**	**26.11**	**27.44**	**25.8**	**106.3**	**70**	**130**	*
93)	n-Undecane	26.50	24.78	26.5	93.5	70	130	*
94)	**1,2,4-Trichlorobenzene**	**27.63**	**24.79**	**26.0**	**95.3**	**70**	**130**	*
95)	**Naphthalene**	**27.77**	**24.08**	**26.3**	**91.6**	**70**	**130**	*
96)	n-Dodecane	27.74	24.15	26.5	91.1	70	130	*
97)	**Hexachloro-1,3-butadiene**	**28.19**	**23.94**	**26.3**	**91.0**	**70**	**130**	*

Bold = 67 Compound List

5/22/08

Method Path : J:\MS13\METHODS\
Method File : S13052208.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Sun May 25 20:31:38 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	ISTD								
2)	S	1,2-Dichloroethane-	1.794	1.789	1.787	1.711	1.716	1.686	1.643	1.732	3.40
3)	IR	1,4-Difluorobenzene (	ISTD								
4)	I	Chlorobenzene-d5 (IS3	ISTD								
5)	S	Toluene-d8 (SS2)	2.281	2.276	2.255	2.249	2.226	2.198	2.231	2.245	1.31
6)	S	Bromofluorobenzene	0.879	0.895	0.904	0.922	0.931	0.923	0.937	0.913	2.31
7)		tert-Butylbenzene	2.735	3.218	2.885	2.855	3.140	3.024	2.693	2.936	6.77
8)		n-Butylbenzene	2.864	3.570	3.351	3.289	3.496	3.275	2.882	3.247	8.53

(#) = Out of Range

11145

5/26/08

Method Path : J:\MS13\METHODS\
Method File : S13052208.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Sun May 25 20:32:30 2008
Response Via : Initial Calibration

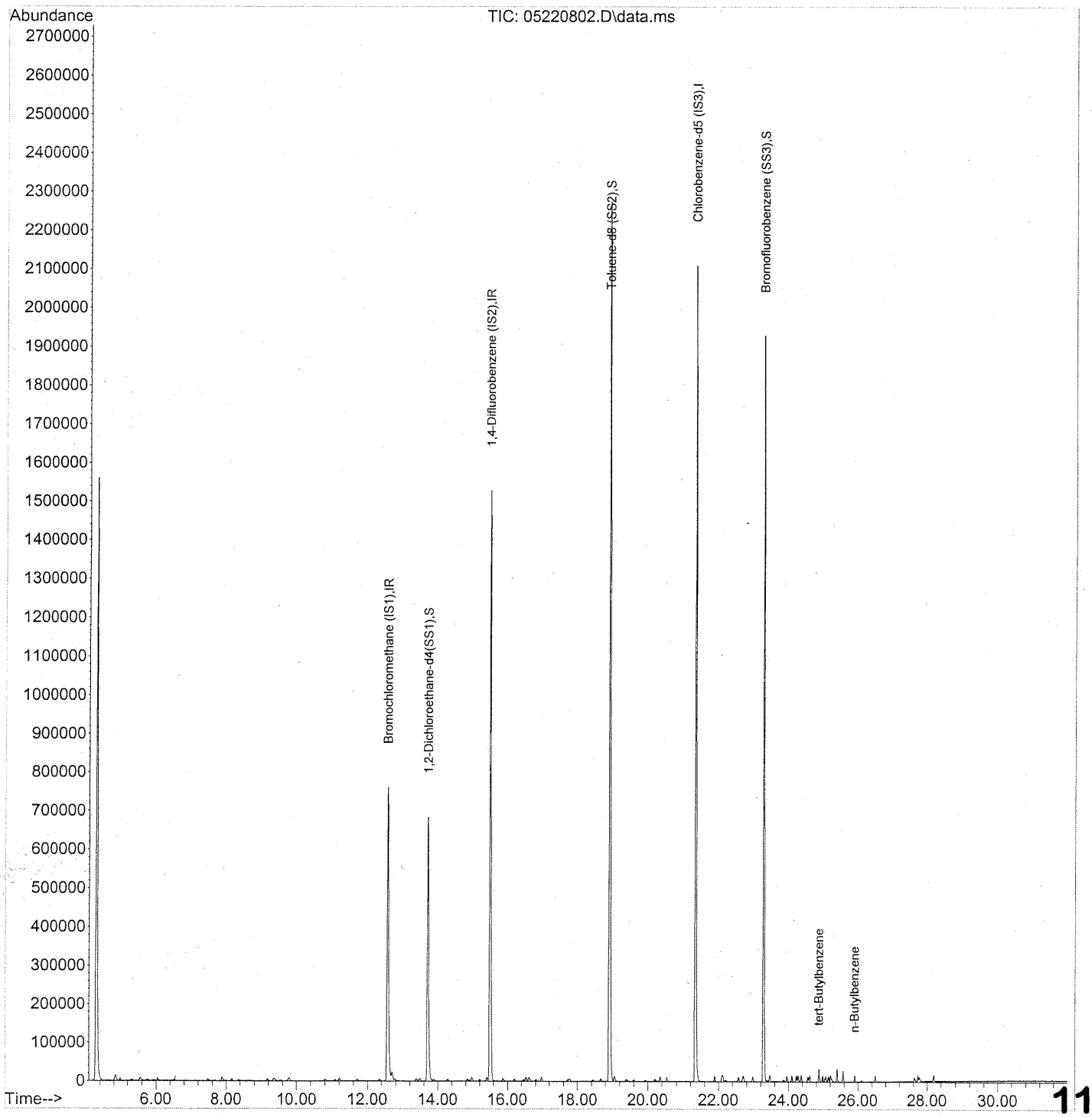
#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2008_05\22\05220802.D
2	0.5	1	25	J:\MS13\DATA\2008_05\22\05220803.D
3	1.0	1	25	J:\MS13\DATA\2008_05\22\05220804.D
4	5.0	5	25	J:\MS13\DATA\2008_05\22\05220805.D
5	25	26	25	J:\MS13\DATA\2008_05\22\05220806.D
6	50	52	25	J:\MS13\DATA\2008_05\22\05220807.D
7	100	104	25	J:\MS13\DATA\2008_05\22\05220808.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 25 20:26 2008	May 25 20:25 2008	22 May 2008 3:56
2	0.5	May 25 20:27 2008	May 25 20:25 2008	22 May 2008 4:37
3	1.0	May 25 20:28 2008	May 25 20:25 2008	22 May 2008 5:18
4	5.0	May 25 20:29 2008	May 25 20:25 2008	22 May 2008 5:58
5	25	May 25 20:30 2008	May 25 20:25 2008	22 May 2008 6:39
6	50	May 25 20:31 2008	May 25 20:25 2008	22 May 2008 7:20
7	100	May 25 20:31 2008	May 25 20:25 2008	22 May 2008 8:01

S13052208.M Sun May 25 20:42:55 2008

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:25:01 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:25:01 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

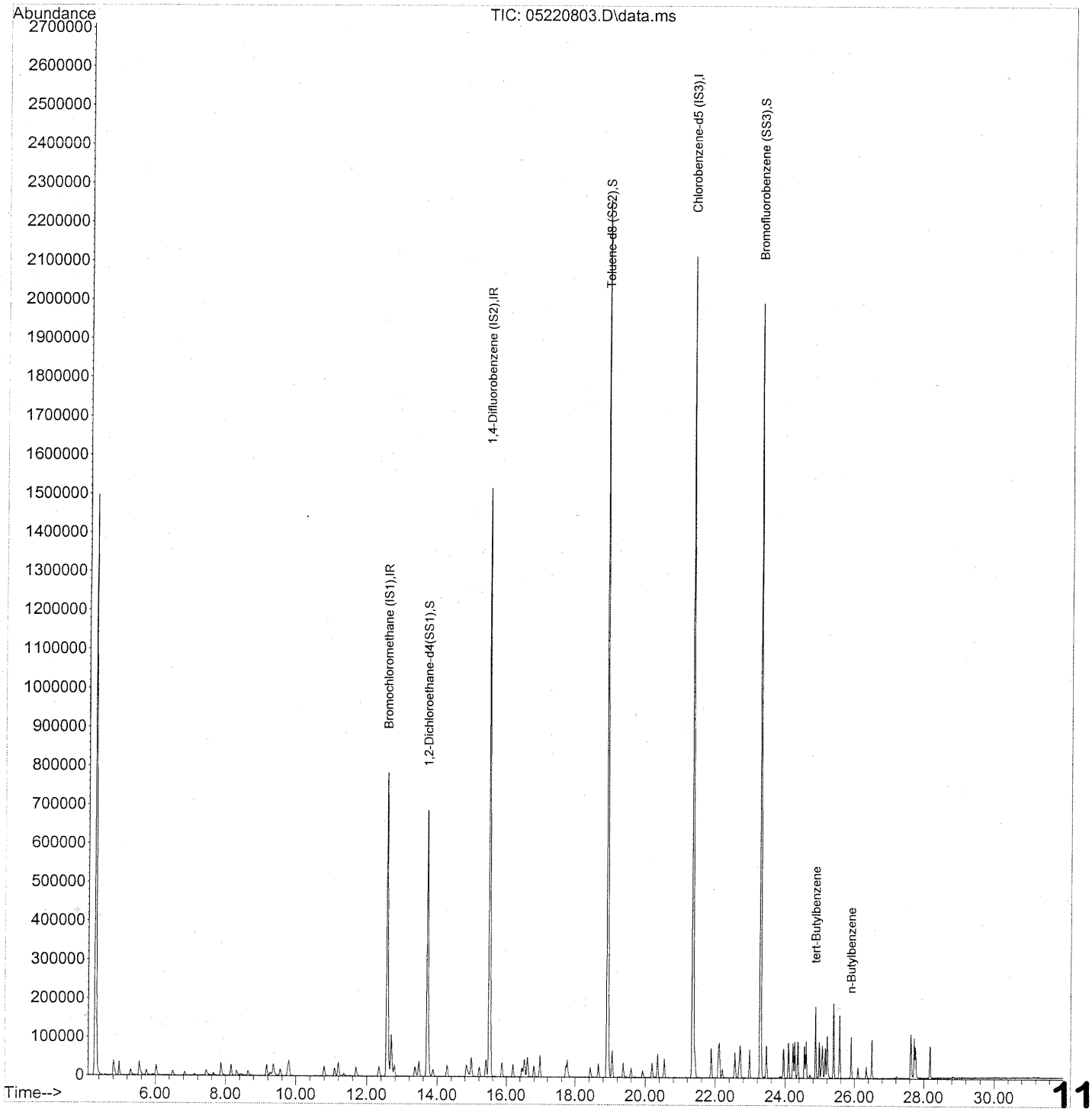
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	391084	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1729052	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	807664	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	701754	22.375	ng	-0.03
Spiked Amount 25.000			Recovery = 89.48%			
5) Toluene-d8 (SS2)	18.92	98	1842585	25.453	ng	-0.01
Spiked Amount 25.000			Recovery = 101.80%			
6) Bromofluorobenzene (SS3)	23.29	174	709723	28.489	ng	0.00
Spiked Amount 25.000			Recovery = 113.96%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	9190	0.104	ng	99
8) n-Butylbenzene	25.91	91	9900	0.104	ng	98

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

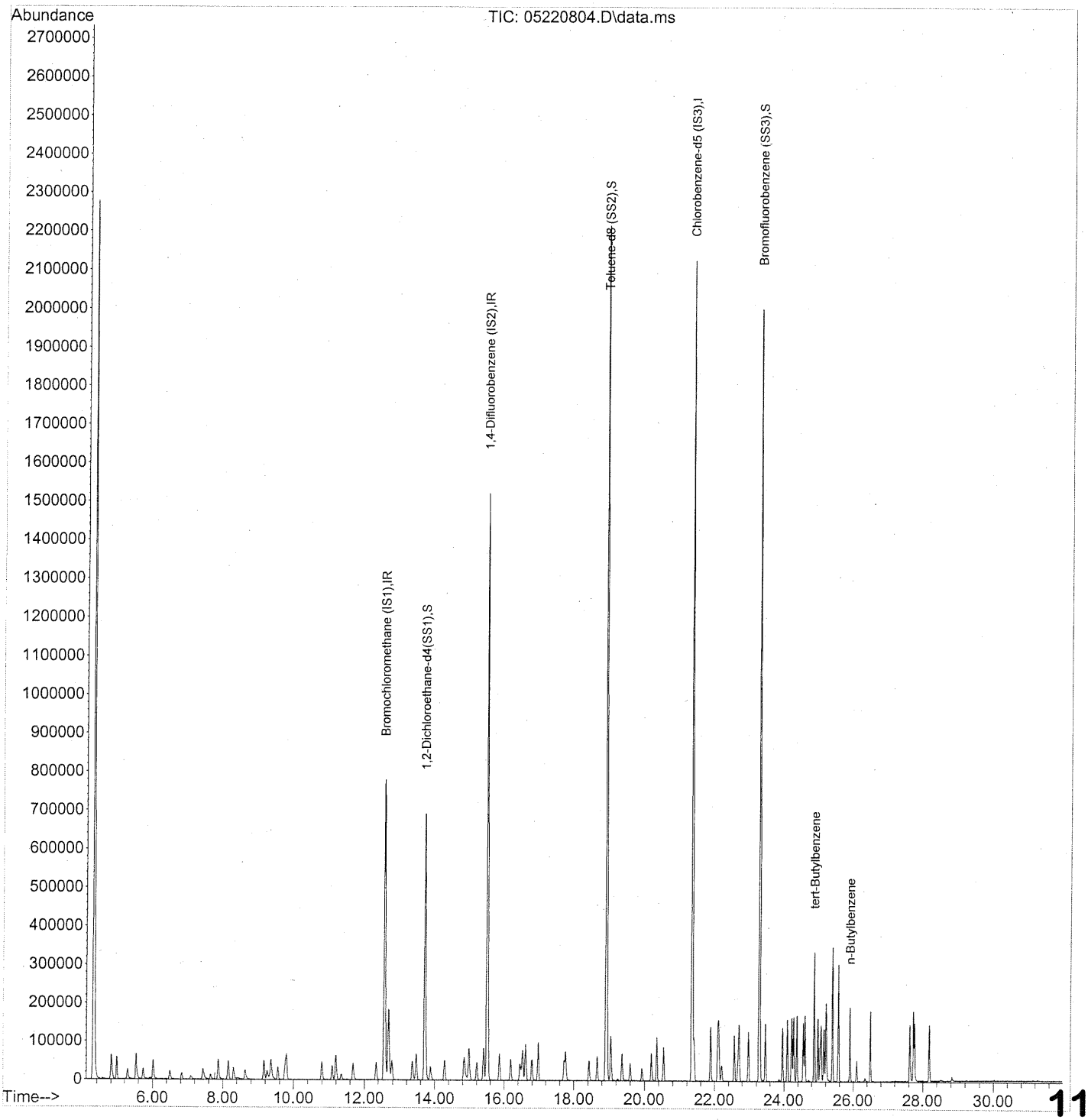
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	390197	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1721246	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	802715	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	697916	22.303	ng	-0.03
Spiked Amount 25.000			Recovery = 89.20%			
5) Toluene-d8 (SS2)	18.92	98	1826728	25.389	ng	-0.01
Spiked Amount 25.000			Recovery = 101.56%			
6) Bromofluorobenzene (SS3)	23.29	174	718304	29.011	ng	0.00
Spiked Amount 25.000			Recovery = 116.04%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	53731	0.611	ng	100
8) n-Butylbenzene	25.91	91	61321	0.647	ng	98

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

1150

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

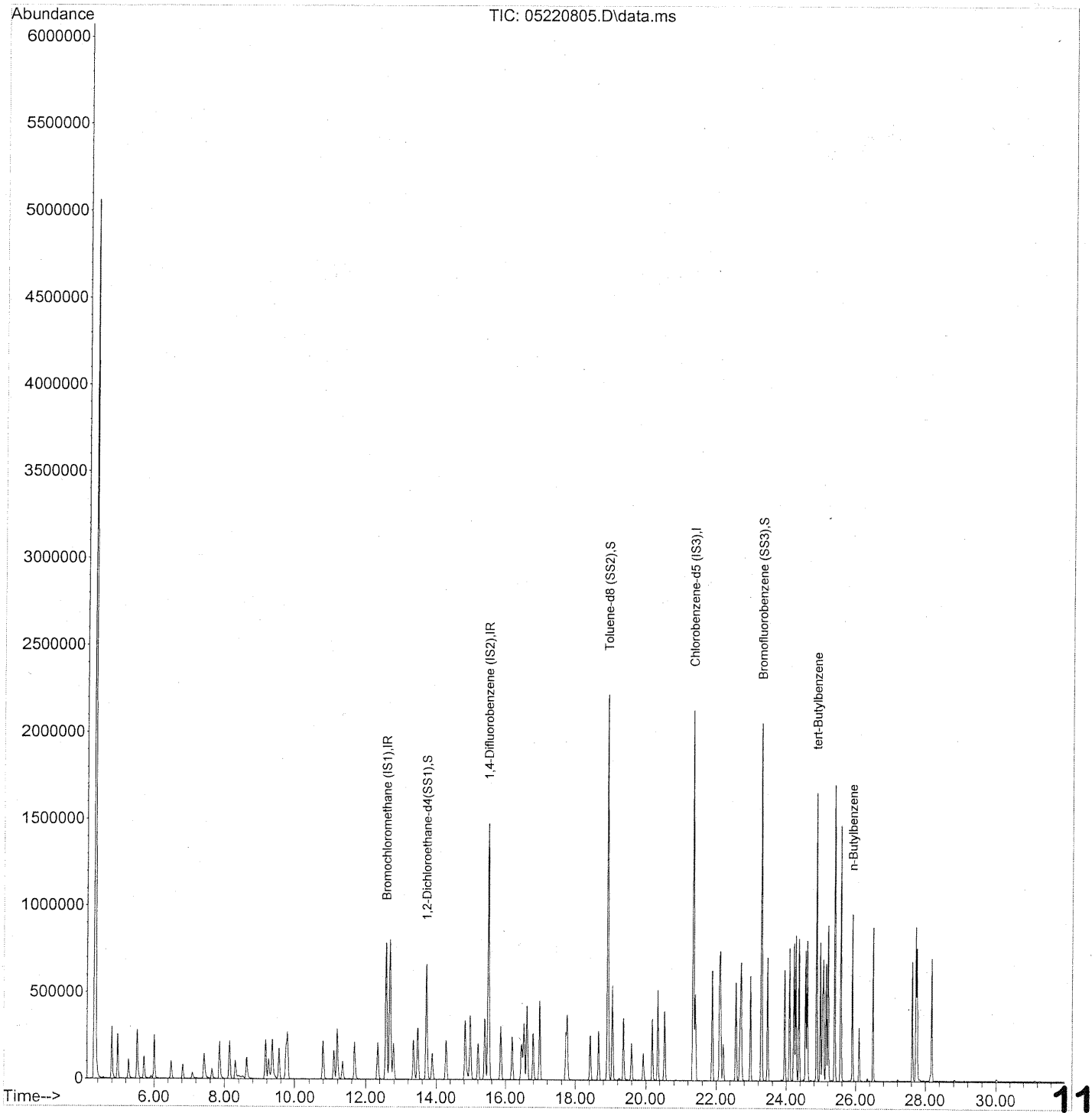
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	387850	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1717781	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	808909	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.72	65	693031	22.281	ng	-0.03
Spiked Amount 25.000			Recovery =	89.12%		
5) Toluene-d8 (SS2)	18.92	98	1824190	25.160	ng	-0.01
Spiked Amount 25.000			Recovery =	100.64%		
6) Bromofluorobenzene (SS3)	23.29	174	731633	29.323	ng	0.00
Spiked Amount 25.000			Recovery =	117.28%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	97077	1.096	ng	100
8) n-Butylbenzene	25.91	91	116000	1.214	ng	96

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

1152

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:14 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:14 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	392159	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1692913	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	804687	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	670984	21.335	ng	-0.02
Spiked Amount 25.000			Recovery = 85.36%			
5) Toluene-d8 (SS2)	18.93	98	1810051	25.096	ng	0.00
Spiked Amount 25.000			Recovery = 100.40%			
6) Bromofluorobenzene (SS3)	23.29	174	741734	29.884	ng	0.00
Spiked Amount 25.000			Recovery = 119.52%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	477896	5.424	ng	99
8) n-Butylbenzene	25.91	91	566409	5.958	ng	96

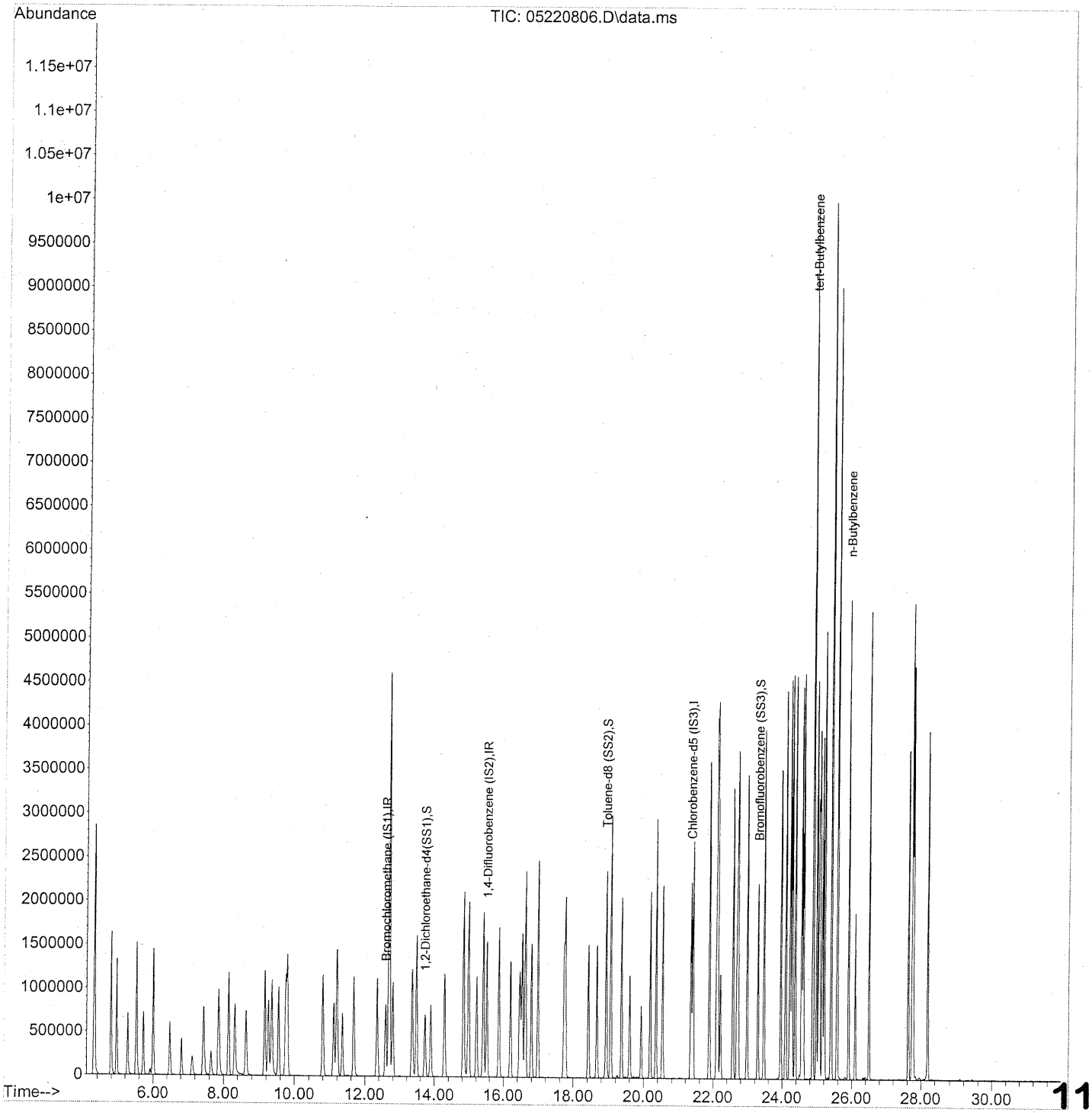
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1154

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:18 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



1155

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220806.D
Acq On : 22 May 2008 6:39
Operator : RTB
Sample : 25ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:18 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

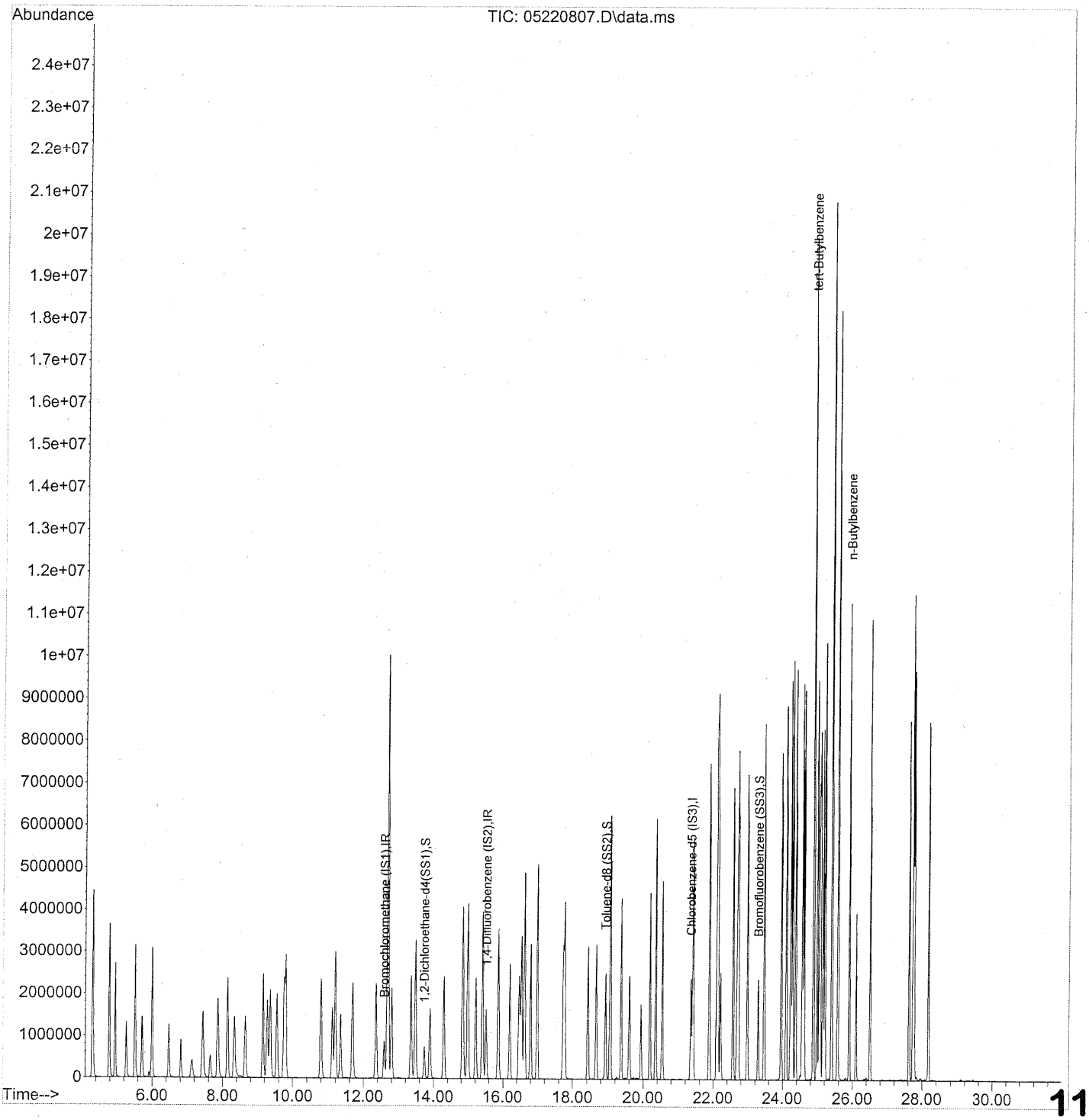
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	416973	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	1789357	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	864655	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	715546	21.398	ng	-0.02
Spiked Amount 25.000			Recovery =	85.60%		
5) Toluene-d8 (SS2)	18.93	98	1925065	24.839	ng	0.00
Spiked Amount 25.000			Recovery =	99.36%		
6) Bromofluorobenzene (SS3)	23.29	174	804956	30.182	ng	0.00
Spiked Amount 25.000			Recovery =	120.72%		
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	2823383	29.820	ng	99
8) n-Butylbenzene	25.91	91	3240519	31.722	ng	97

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

1156

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:22 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

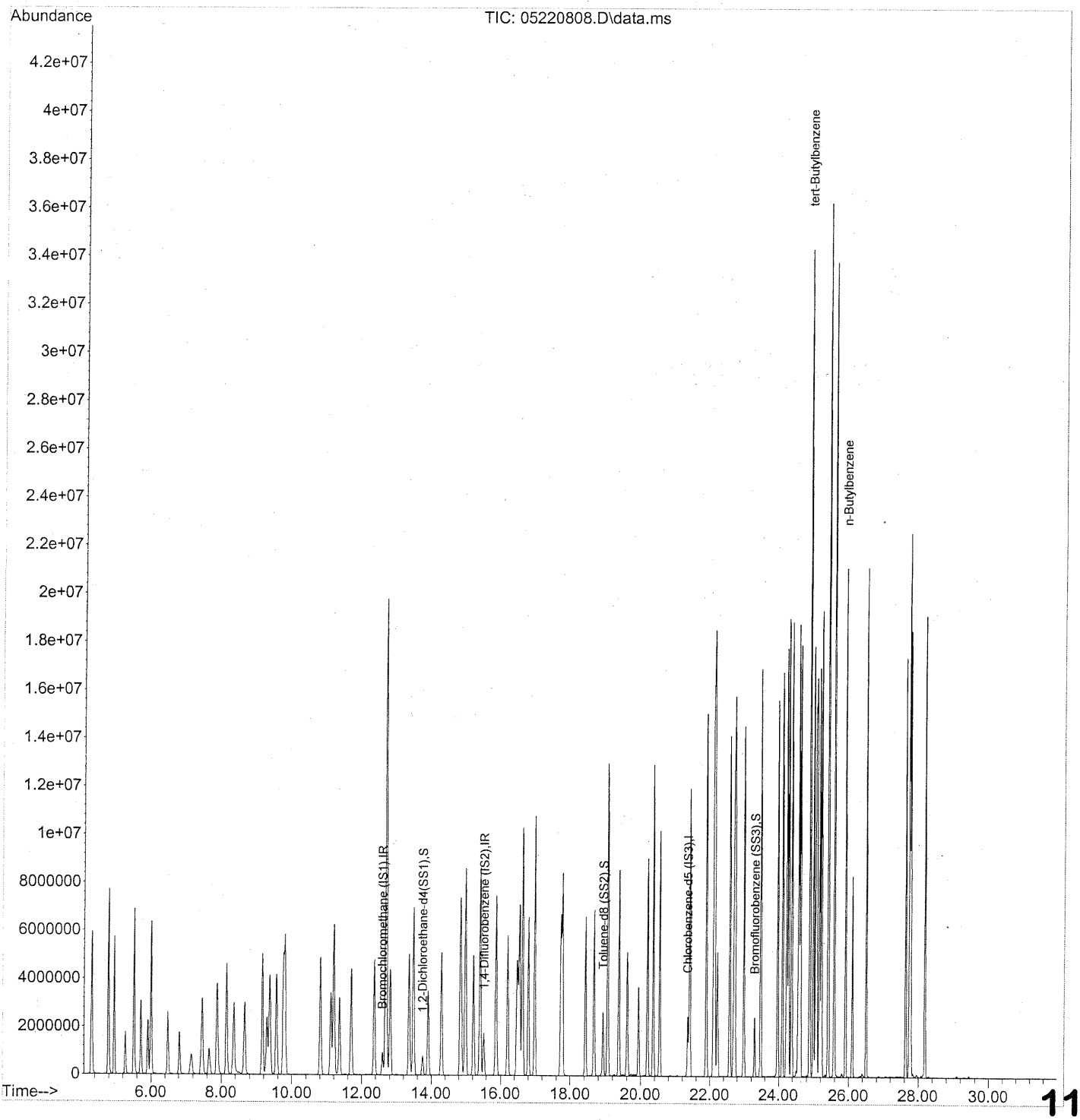
Quant Time: May 25 20:25:22 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	454188	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.53	114	1924432	25.000	ng	0.00
4) Chlorobenzene-d5 (IS3)	21.36	82	936145	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.74	65	765682	21.021	ng	-0.01
Spiked Amount 25.000			Recovery = 84.08%			
5) Toluene-d8 (SS2)	18.93	98	2057293	24.518	ng	0.00
Spiked Amount 25.000			Recovery = 98.08%			
6) Bromofluorobenzene (SS3)	23.29	174	864419	29.936	ng	0.00
Spiked Amount 25.000			Recovery = 119.76%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.89	119	5887817	57.437	ng	99
8) n-Butylbenzene	25.91	91	6561385	59.326	ng	99

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

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:27 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

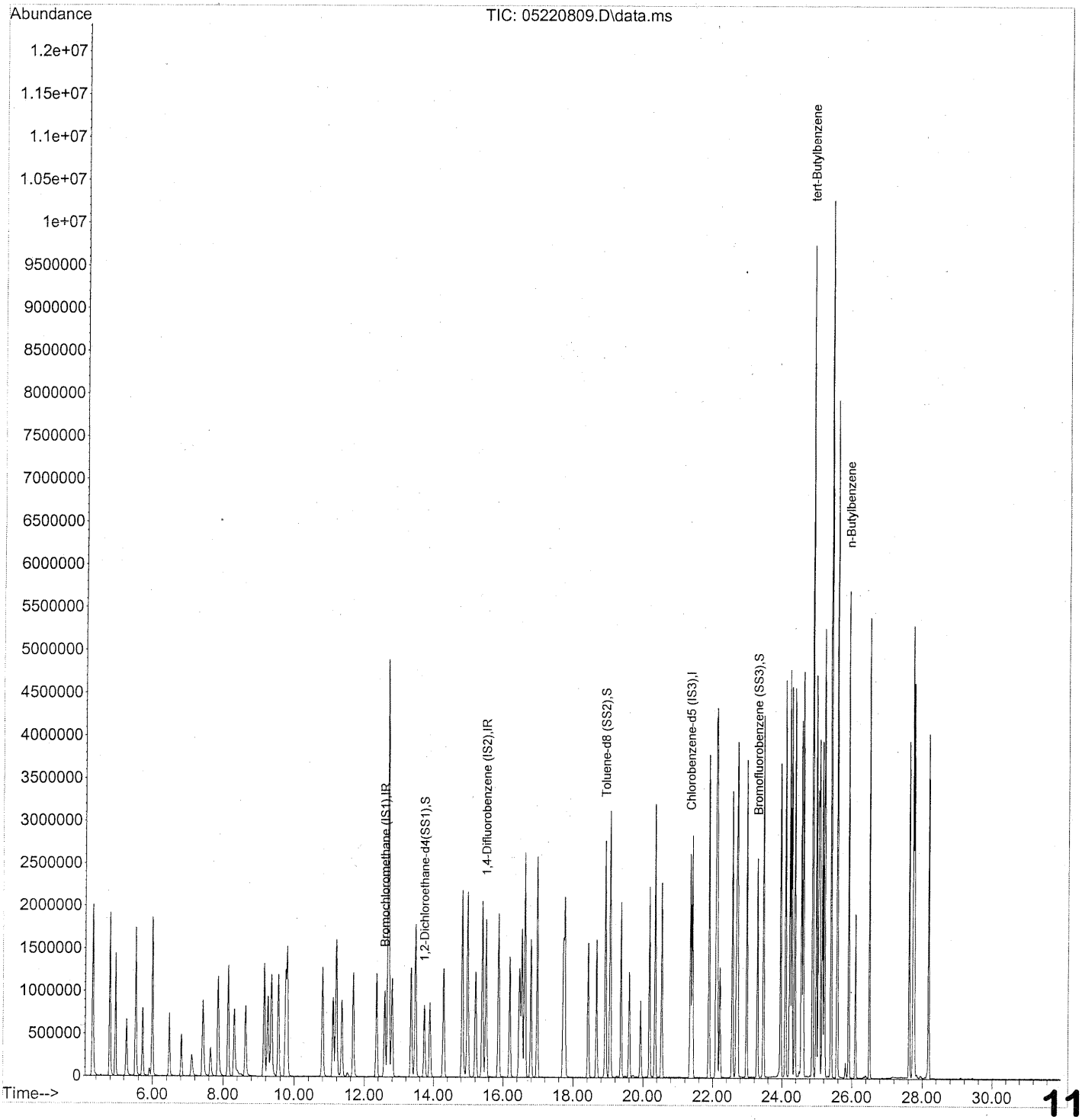
Quant Time: May 25 20:25:27 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.60	130	499844	25.000	ng	0.00
3) 1,4-Difluorobenzene (IS2)	15.53	114	2090195	25.000	ng	0.00
4) Chlorobenzene-d5 (IS3)	21.36	82	998042	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.75	65	821224	20.487	ng	0.00
Spiked Amount 25.000			Recovery = 81.96%			
5) Toluene-d8 (SS2)	18.94	98	2226768	24.892	ng	0.00
Spiked Amount 25.000			Recovery = 99.56%			
6) Bromofluorobenzene (SS3)	23.30	174	935196	30.378	ng	0.00
Spiked Amount 25.000			Recovery = 121.52%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.89	119	11182254	102.320	ng	98
8) n-Butylbenzene	25.92	91	12309412	104.395	ng	95

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

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	526986	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	2202027	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	1025095	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	856754	23.463	ng	-0.02
Spiked Amount 25.000			Recovery = 93.84%			
5) Toluene-d8 (SS2)	18.93	98	2305788	25.046	ng	-0.01
Spiked Amount 25.000			Recovery = 100.20%			
6) Bromofluorobenzene (SS3)	23.29	174	957507	25.576	ng	0.00
Spiked Amount 25.000			Recovery = 102.32%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	2937403	24.402	ng	98
8) n-Butylbenzene	25.91	91	3302624	24.809	ng	98

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

JDH 5/26/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05220809.D**
Data File Path: **J:\MS13\DATA\2008_05\22**
Operator: **RTB**
Date Acquired: **5/22/08 8:41**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV Standard**
Misc Info: **S20-04300802/S20-04290803**
Instrument Name: **GCMS13**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
7)	tert-Butylbenzene	24.88	24.40	26.3	92.8	70	130	*
8)	n-Butylbenzene	25.91	24.81	26.8	92.6	70	130	*

RA 5/26/08

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	103	-0.05
2	T	Propene	2.500	2.265	9.4	98	0.00
3	T	Dichlorodifluoromethane	2.956	2.699	8.7	95	0.00
4	T	Chloromethane	3.654	3.768	-3.1	113	-0.01
5	T	Freon 114	1.425	1.535	-7.7	115	-0.01
6	T	Vinyl Chloride	2.523	2.214	12.2	89	-0.02
7	T	1,3-Butadiene	2.356	2.154	8.6	97	-0.02
8	T	Bromomethane	1.040	0.973	6.4	102	-0.02
9	T	Chloroethane	1.153	1.126	2.3	103	-0.02
10	T	Ethanol	1.719	1.645	4.3	95	-0.08
11	T	Acetonitrile	4.463	4.373	2.0	100	-0.06
12	T	Acrolein	1.224	1.238	-1.1	109	-0.04
13	T	Acetone	1.652	1.541	6.7	99	-0.05
14	T	Trichlorofluoromethane	2.445	2.386	2.4	101	-0.02
15	T	Isopropanol	5.356	5.565	-3.9	108	-0.08
16	T	Acrylonitrile	2.938	2.972	-1.2	107	-0.07
17	T	1,1-Dichloroethene	1.197	1.217	-1.7	106	-0.03
18	T	tert-Butanol	4.871	4.132	15.2	91	-0.08
19	T	Methylene Chloride	1.305	1.186	9.1	101	-0.05
20	T	Allyl Chloride	2.735	2.311	15.5	97	-0.04
21	T	Trichlorotrifluoroethane	1.027	1.204	-17.2	123	-0.02
22	T	Carbon Disulfide	4.925	4.685	4.9	101	-0.03
23	T	trans-1,2-Dichloroethene	2.559	2.308	9.8	93	-0.04
24	T	1,1-Dichloroethane	2.918	2.618	10.3	95	-0.05
25	T	Methyl tert-Butyl Ether	3.922	3.426	12.6	90	-0.04
26	T	Vinyl Acetate	0.335	0.228	31.9#	67	-0.04
27	T	2-Butanone	0.851	0.777	8.7	92	-0.05
28	T	cis-1,2-Dichloroethene	2.359	2.148	8.9	94	-0.05
29	T	Diisopropyl Ether	1.083	1.086	-0.3	101	-0.03
30	T	Ethyl Acetate	0.629	0.572	9.1	93	-0.04
31	T	n-Hexane	3.557	3.309	7.0	100	-0.03
32	T	Chloroform	1.864	1.717	7.9	95	-0.05
33	S	1,2-Dichloroethane-d4(SS1)	1.763	1.486	15.7	84	-0.04
34	T	Tetrahydrofuran	0.853	0.769	9.8	93	-0.03
35	T	Ethyl tert-Butyl Ether	1.536	1.491	2.9	96	-0.04
36	T	1,2-Dichloroethane	2.230	2.007	10.0	93	-0.04
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.03
38	T	1,1,1-Trichloroethane	0.481	0.469	2.5	97	-0.04

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	0.256	0.247	3.5	94	-0.03
40	T	1-Butanol	0.474	0.410	13.5	85	-0.05
41	T	Benzene	1.226	1.139	7.1	97	-0.04
42	T	Carbon Tetrachloride	0.363	0.375	-3.3	98	-0.03
43	T	Cyclohexane	0.485	0.444	8.5	97	-0.02
44	T	tert-Amyl Methyl Ether	0.863	0.776	10.1	89	-0.03
45	T	1,2-Dichloropropane	0.380	0.360	5.3	94	-0.03
46	T	Bromodichloromethane	0.364	0.358	1.6	95	-0.04
47	T	Trichloroethene	0.337	0.374	-11.0	116	-0.04
48	T	1,4-Dioxane	0.230	0.231	-0.4	97	-0.04
49	T	Isooctane	2.036	2.019	0.8	100	-0.03
50	T	Methyl Methacrylate	0.121	0.133	-9.9	108	-0.04
51	T	n-Heptane	0.312	0.299	4.2	94	-0.03
52	T	cis-1,3-Dichloropropene	0.489	0.447	8.6	90	-0.03
53	T	4-Methyl-2-pentanone	0.446	0.426	4.5	95	-0.03
54	T	trans-1,3-Dichloropropene	0.432	0.375	13.2	84	-0.02
55	T	1,1,2-Trichloroethane	0.297	0.302	-1.7	101	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	88	-0.01
57	S	Toluene-d8 (SS2)	2.462	2.573	-4.5	92	-0.02
58	T	Toluene	3.016	3.265	-8.3	102	-0.02
59	T	2-Hexanone	3.189	3.248	-1.9	92	-0.04
60	T	Dibromochloromethane	0.787	0.934	-18.7	107	-0.02
61	T	1,2-Dibromoethane	0.778	0.888	-14.1	102	-0.02
62	T	Butyl Acetate	3.254	3.355	-3.1	93	-0.02
63	T	n-Octane	0.965	1.052	-9.0	99	-0.02
64	T	Tetrachloroethene	0.745	0.947	-27.1	119	-0.02
65	T	Chlorobenzene	1.996	2.326	-16.5	108	-0.02
66	T	Ethylbenzene	3.440	3.714	-8.0	100	-0.02
67	T	m- & p-Xylene	2.254	2.468	-9.5	101	-0.04
68	T	Bromoform	0.426	0.546	-28.2	116	-0.02
69	T	Styrene	2.089	2.432	-16.4	106	-0.02
70	T	o-Xylene	2.404	2.651	-10.3	100	-0.02
71	T	n-Nonane	2.655	2.960	-11.5	100	-0.01
72	T	1,1,2,2-Tetrachloroethane	1.059	1.115	-5.3	94	-0.02
73	S	Bromofluorobenzene (SS3)	0.641	0.731	-14.0	101	-0.01
74	T	Cumene	3.358	3.894	-16.0	107	-0.01
75	T	alpha-Pinene	1.641	1.883	-14.7	103	0.00
76	T	n-Propylbenzene	4.211	4.666	-10.8	102	-0.01

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5/21/08

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	3.637	4.235	-16.4	109	-0.01
78 T	4-Ethyltoluene	3.312	3.913	-18.1	107	-0.01
79 T	1,3,5-Trimethylbenzene	2.916	3.349	-14.8	106	-0.01
80 T	alpha-Methylstyrene	1.582	2.027	-28.1	113	-0.02
81 T	2-Ethyltoluene	3.608	4.247	-17.7	109	-0.02
82 T	1,2,4-Trimethylbenzene	3.013	3.371	-11.9	105	-0.02
83 T	n-Decane	2.388	2.630	-10.1	99	-0.01
84 T	Benzyl Chloride	2.511	2.635	-4.9	94	-0.02
85 T	1,3-Dichlorobenzene	1.748	2.139	-22.4	116	-0.02
86 T	1,4-Dichlorobenzene	1.670	2.072	-24.1	116	-0.01
87 T	sec-Butylbenzene	3.925	4.624	-17.8	109	-0.01
88 T	p-Isopropyltoluene	3.333	4.031	-20.9	112	-0.02
89 T	1,2,3-Trimethylbenzene	2.934	3.410	-16.2	107	-0.02
90 T	1,2-Dichlorobenzene	1.622	2.008	-23.8	115	-0.02
91 T	d-Limonene	1.087	1.168	-7.5	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.511	0.665	-30.1#	116	-0.01
93 T	n-Undecane	2.511	2.783	-10.8	99	0.00
94 T	1,2,4-Trichlorobenzene	0.282	0.400	-41.8#	127	0.00
95 T	Naphthalene	4.263	5.280	-23.9	115	-0.01
96 T	n-Dodecane	2.451	2.716	-10.8	100	0.00
97 T	Hexachloro-1,3-butadiene	0.422	0.566	-34.1#	122	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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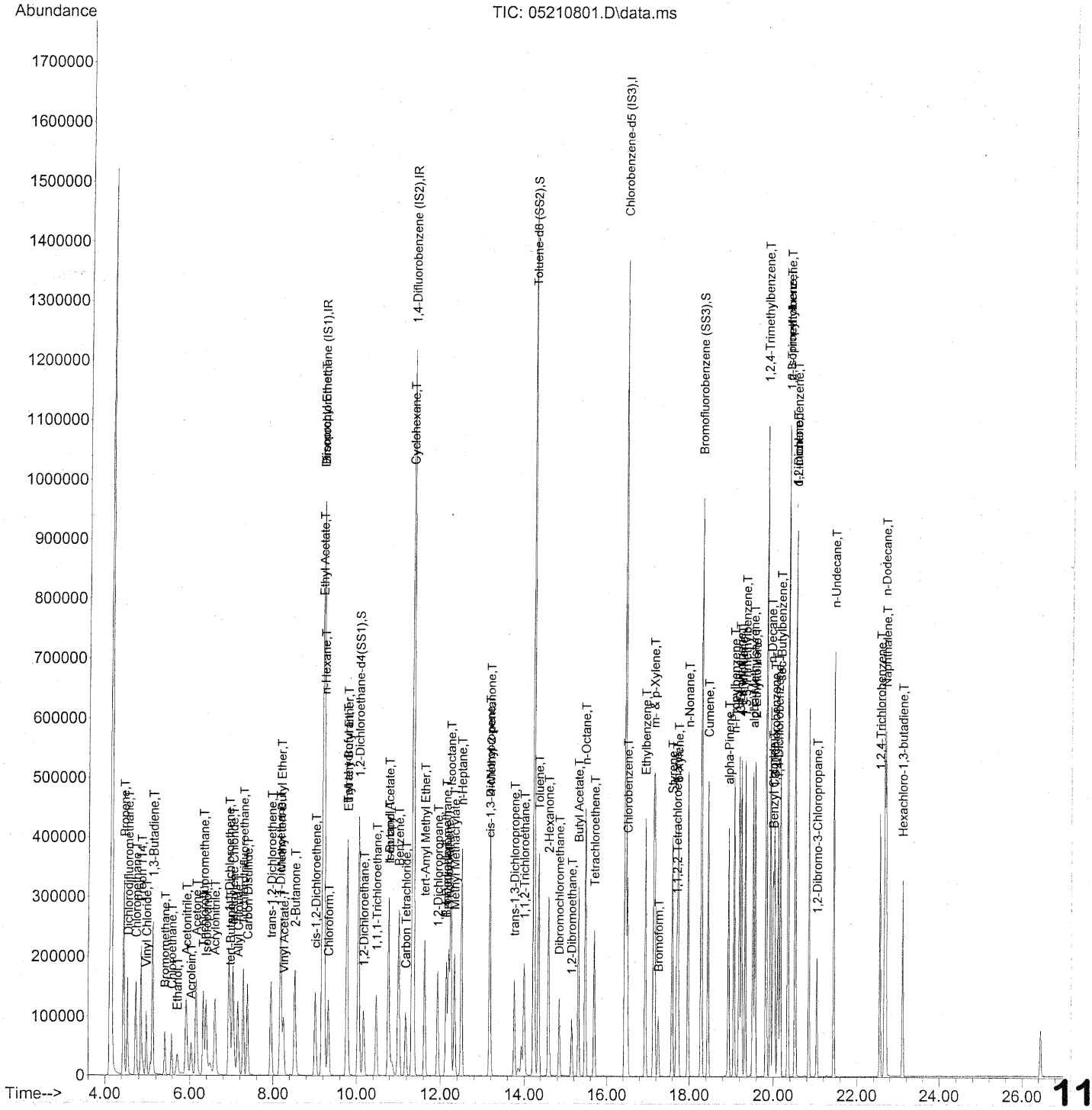
Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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	280453	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1159366	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	455765	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	416652	21.068	ng		-0.04
Spiked Amount 25.000			Recovery =	84.28%			
57) Toluene-d8 (SS2)	14.23	98	1172458	26.127	ng		-0.02
Spiked Amount 25.000			Recovery =	104.52%			
73) Bromofluorobenzene (SS3)	18.28	174	333301	28.538	ng		-0.01
Spiked Amount 25.000			Recovery =	114.16%			
Target Compounds							Qvalue
2) Propene	4.44	42	137185	4.892	ng		92
3) Dichlorodifluoromethane	4.54	85	157439	4.748	ng		98
4) Chloromethane	4.73	50	215550	5.258	ng		99
5) Freon 114	4.85	135	92132	5.762	ng		97
6) Vinyl Chloride	4.97	62	127890	4.518	ng		94
7) 1,3-Butadiene	5.12	54	131705	4.984	ng		89
8) Bromomethane	5.41	94	57307	4.913	ng		100
9) Chloroethane	5.58	64	66307	5.125	ng		95
10) Ethanol	5.71	45	83984m	4.355	ng		
11) Acetonitrile	5.92	41	240356	4.801	ng		100
12) Acrolein	6.03	56	66688	4.857	ng		99
13) Acetone	6.16	58	95921	5.177	ng	#	86
14) Trichlorofluoromethane	6.32	101	139161	5.074	ng		98
15) Isopropanol	6.39	45	321516m	5.352	ng		
16) Acrylonitrile	6.60	53	168360	5.109	ng		96
17) 1,1-Dichloroethene	6.93	96	77150	5.747	ng		93
18) tert-Butanol	6.97	59	236415m	4.327	ng		
19) Methylene Chloride	7.03	84	74496	5.089	ng	#	32
20) Allyl Chloride	7.15	41	136122	4.437	ng		79
21) Trichlorotrifluoroethane	7.28	151	76998	6.681	ng		88
22) Carbon Disulfide	7.39	76	262770	4.756	ng		100
23) trans-1,2-Dichloroethene	7.95	61	142391	4.960	ng		93
24) 1,1-Dichloroethane	8.17	63	163001	4.980	ng		95
25) Methyl tert-Butyl Ether	8.19	73	213294	4.847	ng		79
26) Vinyl Acetate	8.26	86	12534	3.334	ng	#	1
27) 2-Butanone	8.52	72	48835	5.115	ng	#	1
28) cis-1,2-Dichloroethene	9.01	61	133730	5.053	ng		92
29) Diisopropyl Ether	9.19	87	62720	5.162	ng	#	18
30) Ethyl Acetate	9.17	61	40781	5.775	ng		84
31) n-Hexane	9.23	57	207903	5.210	ng		9

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Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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	124232	5.940	ng		94
34) Tetrahydrofuran	9.77	72	47899	5.006	ng	#	32
35) Ethyl tert-Butyl Ether	9.78	87	87786	5.094	ng	#	75
36) 1,2-Dichloroethane	10.17	62	123825	4.950	ng		97
38) 1,1,1-Trichloroethane	10.48	97	119705	5.369	ng		91
39) Isopropyl Acetate	10.77	61	57784	4.876	ng	#	55
40) 1-Butanol	10.77	56	86430	3.935	ng		83
41) Benzene	11.01	78	290398	5.109	ng		99
42) Carbon Tetrachloride	11.18	117	93084	5.531	ng		100
43) Cyclohexane	11.33	84	114158	5.071	ng	#	26
44) tert-Amyl Methyl Ether	11.62	73	187226	4.678	ng	#	71
45) 1,2-Dichloropropane	11.94	63	91068	5.165	ng		96
46) Bromodichloromethane	12.14	83	95378	5.647	ng		94
47) Trichloroethene	12.19	130	98964	6.323	ng		99
48) 1,4-Dioxane	12.14	88	61623	5.771	ng	#	71
49) Isooctane	12.24	57	486784	5.156	ng		96
50) Methyl Methacrylate	12.34	100	32599	5.808	ng	#	77
51) n-Heptane	12.50	71	76994	5.324	ng	#	51
52) cis-1,3-Dichloropropene	13.16	75	107815	4.756	ng		99
53) 4-Methyl-2-pentanone	13.18	58	103672	5.012	ng		83
54) trans-1,3-Dichloropropene	13.76	75	100930	5.041	ng		98
55) 1,1,2-Trichloroethane	13.99	97	76369	5.537	ng		93
58) Toluene	14.35	91	327386	5.954	ng		98
59) 2-Hexanone	14.58	43	301986	5.194	ng		93
60) Dibromochloromethane	14.84	129	94464	6.583	ng		100
61) 1,2-Dibromoethane	15.14	107	88235	6.219	ng		99
62) Butyl Acetate	15.31	43	321093	5.413	ng		95
63) n-Octane	15.47	57	99712	5.667	ng		95
64) Tetrachloroethene	15.69	166	94085	6.924	ng		100
65) Chlorobenzene	16.50	112	233243	6.410	ng		99
66) Ethylbenzene	16.94	91	365641	5.830	ng		93
67) m- & p-Xylene	17.14	91	580461	14.126	ng		91
68) Bromoform	17.26	173	65232	8.406	ng		99
69) Styrene	17.59	104	239447	6.287	ng		94
70) o-Xylene	17.73	91	294818	6.728	ng		93
71) n-Nonane	17.97	43	277890	5.742	ng		89
72) 1,1,2,2-Tetrachloroethane	17.70	83	125062	6.478	ng		92
74) Cumene	18.45	105	383349	6.262	ng		95
75) alpha-Pinene	18.93	93	181970	6.084	ng		94
76) n-Propylbenzene	19.06	91	446583	5.817	ng		92
77) 3-Ethyltoluene	19.19	105	393752	5.939	ng		94
78) 4-Ethyltoluene	19.24	105	395887	6.557	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	329684	6.202	ng		9

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 08:16:32 2008
Quant Method : J:\MS16\METHODS\R16051208.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	188462	6.535	ng		96
81) 2-Ethyltoluene	19.56	105	383262	5.826	ng		92
82) 1,2,4-Trimethylbenzene	19.83	105	338012	6.154	ng		91
83) n-Decane	19.93	57	249321	5.727	ng		79
84) Benzyl Chloride	19.99	91	257038	5.616	ng		90
85) 1,3-Dichlorobenzene	20.02	146	206676	6.484	ng		100
86) 1,4-Dichlorobenzene	20.10	146	207783	6.825	ng		99
87) sec-Butylbenzene	20.15	105	450953	6.302	ng		96
88) p-Isopropyltoluene	20.34	119	433627	7.136	ng		94
89) 1,2,3-Trimethylbenzene	20.34	105	341958	6.394	ng		87
90) 1,2-Dichlorobenzene	20.52	146	197666	6.686	ng		100
91) d-Limonene	20.52	68	112841	5.695	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	63067	6.770	ng		90
93) n-Undecane	21.43	57	266387	5.818	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	40849	7.943	ng	#	85
95) Naphthalene	22.69	128	505327	6.502	ng		99
96) n-Dodecane	22.66	57	262439	5.874	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	57242	7.445	ng		98

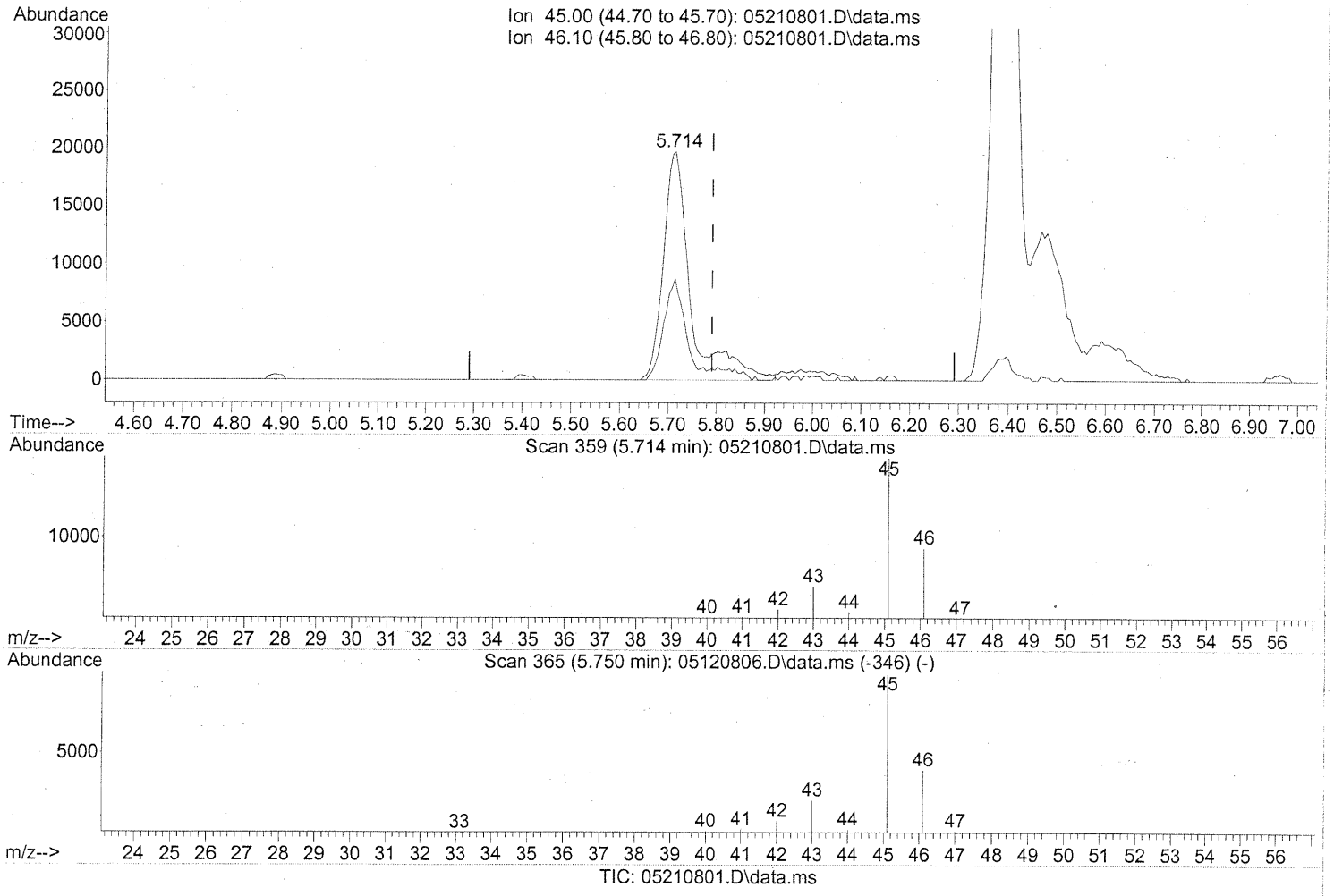
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1171

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210801.D\data.ms

(10) Ethanol (T)

5.714min (-0.077) 4.05ng

response 78001

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.30
0.00	0.00	0.00
0.00	0.00	0.00

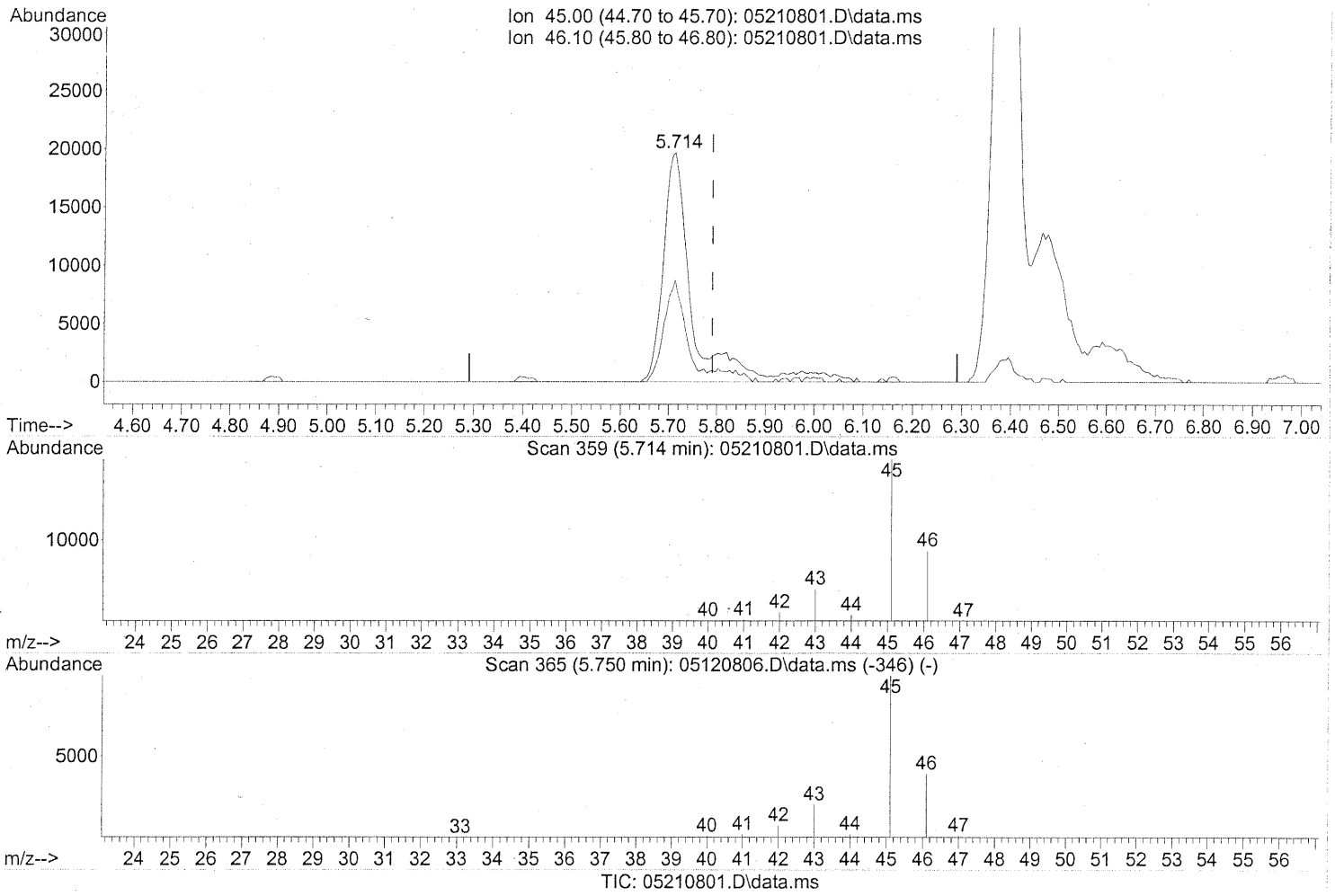
tailing

1172

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210801.D\data.ms

(10) Ethanol (T)

5.714min (-0.077) 4.36ng m

response 83984

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	37.42
0.00	0.00	0.00
0.00	0.00	0.00

added tailing

RA 5/21/08

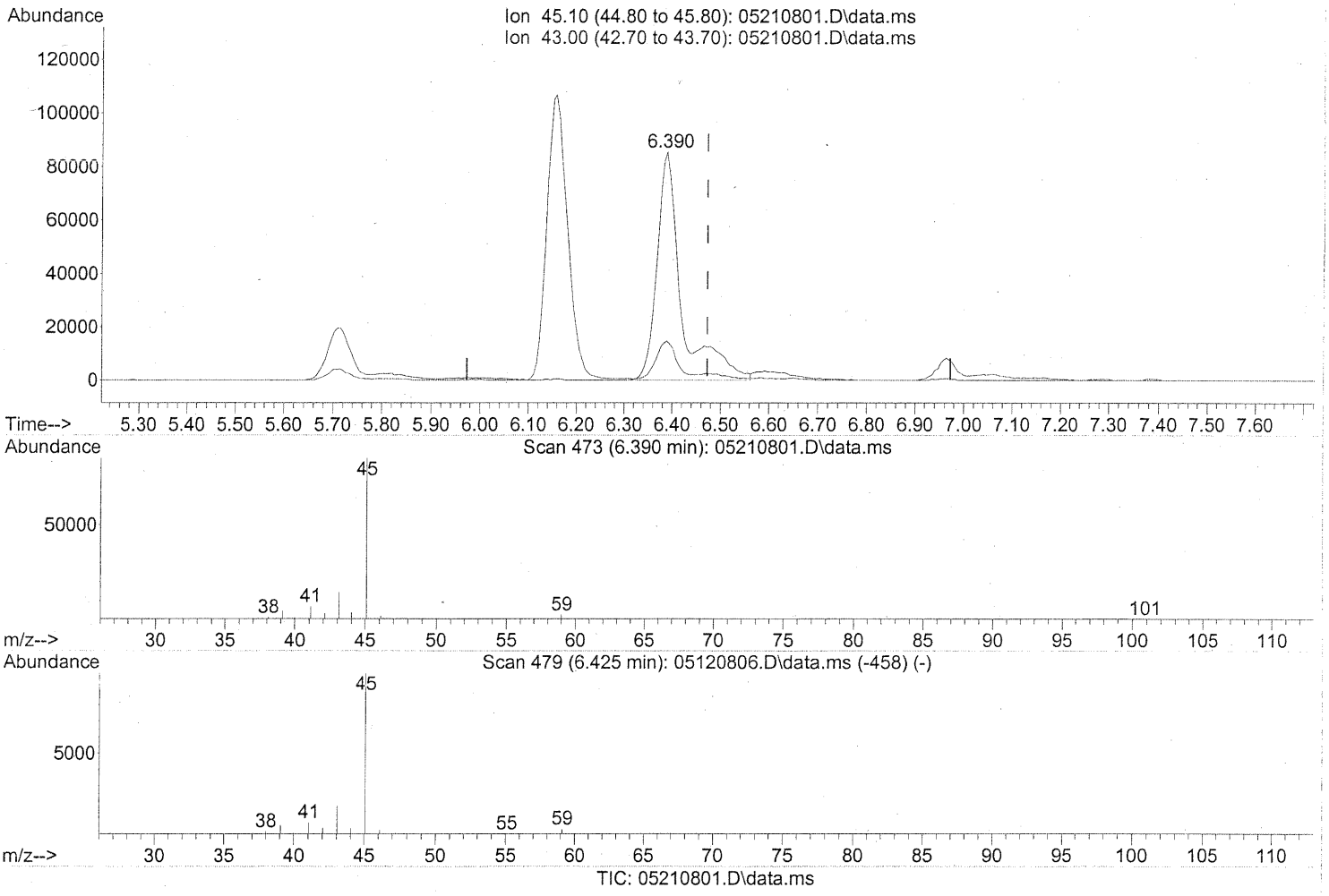
EM 5/22/08

1173

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210801.D\data.ms

(15) Isopropanol (T)

6.390min (-0.083) 5.03ng

response 302265

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

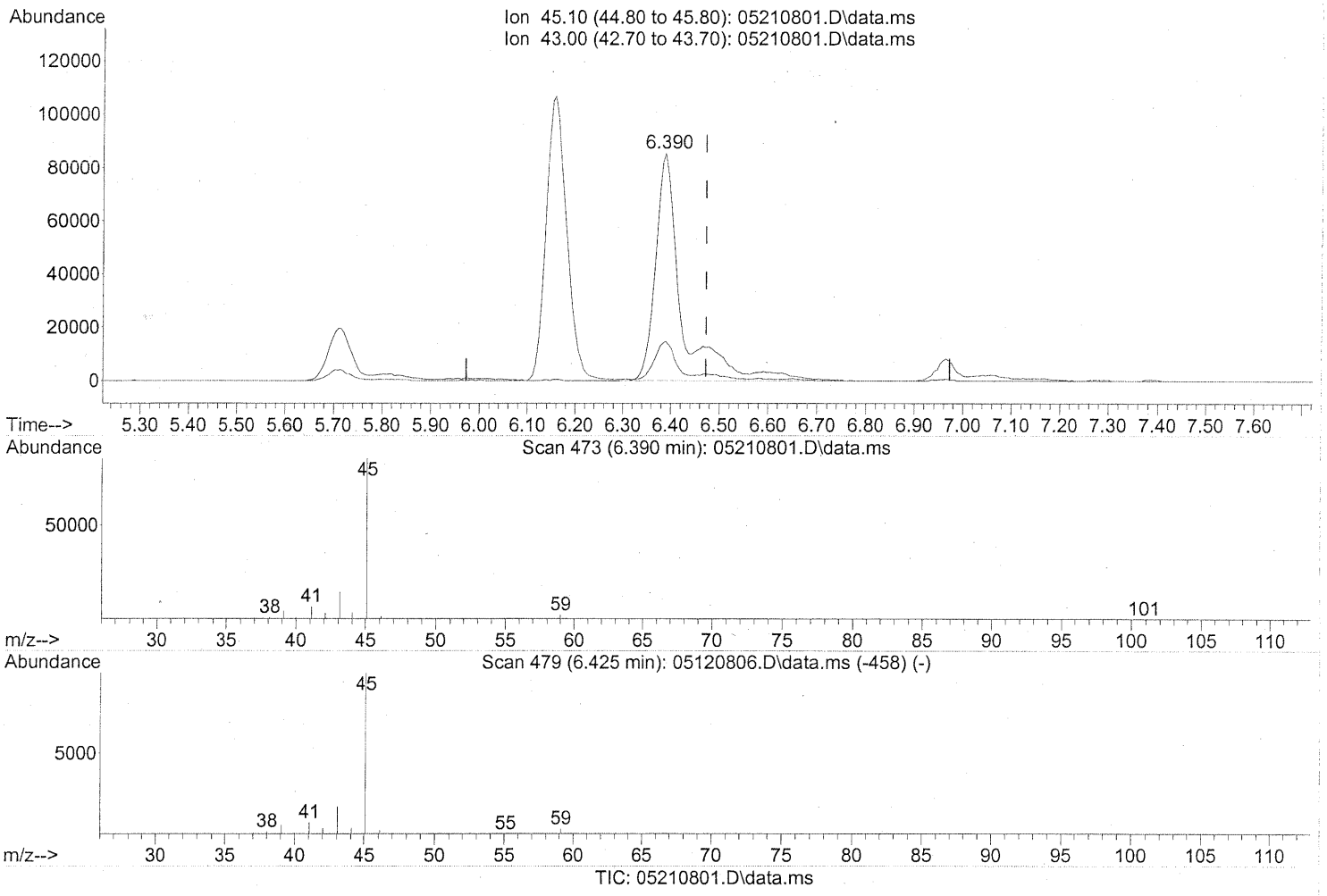
tailing

1174

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05210801.D\data.ms

(15) Isopropanol (T)

6.390min (-0.083) 5.35ng m

response 321516

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	14.56
0.00	0.00	0.00
0.00	0.00	0.00

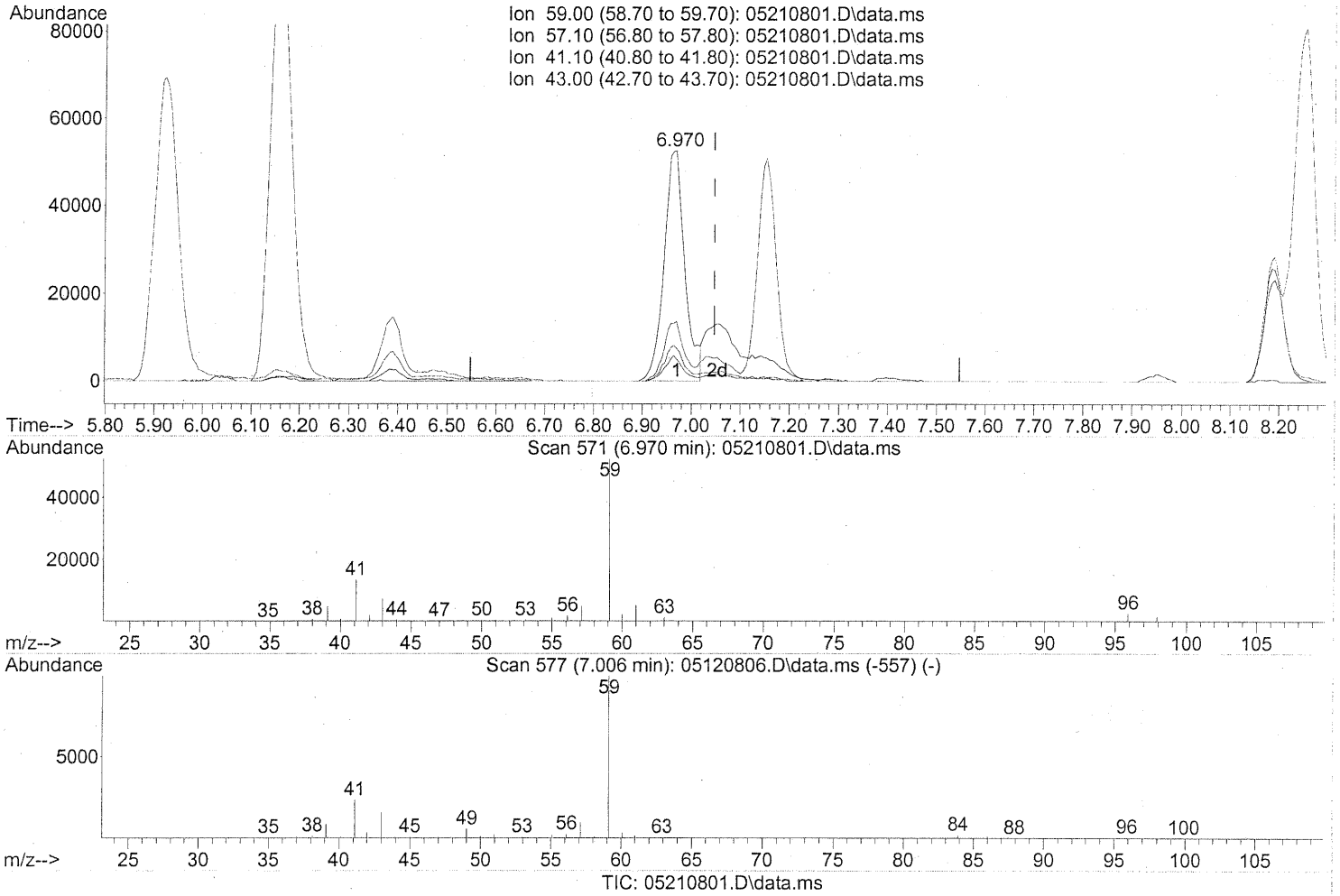
addid tailing
DH 5/21/08
Em 5/22/08

1175

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.970min (-0.077) 2.83ng

response 154599

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.96
41.10	21.90	25.26
43.00	17.20	24.10

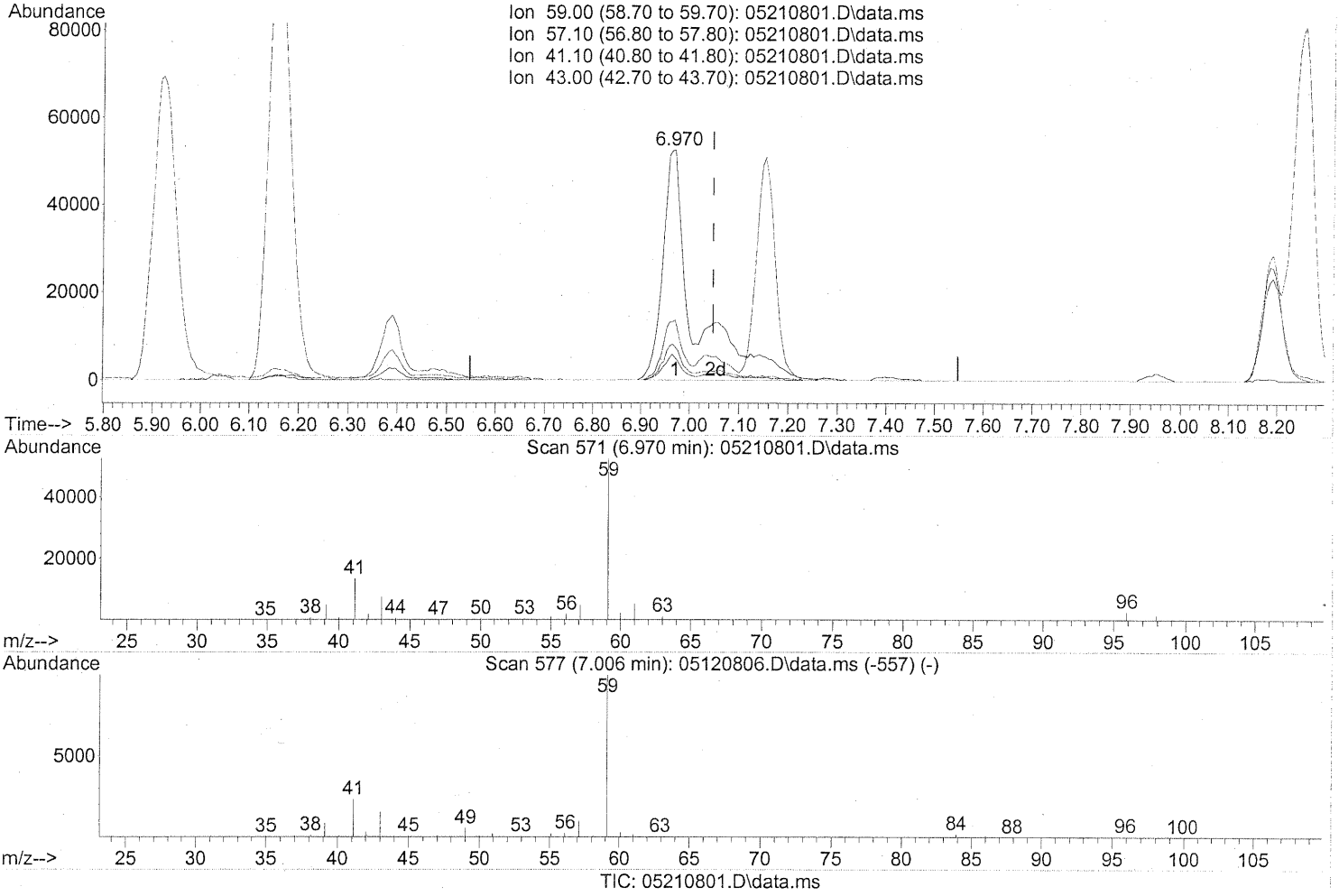
split peaks

1176

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 21 07:43:35 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.970min (-0.077) 4.33ng m

response 236415

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	6.51
41.10	21.90	16.52
43.00	17.20	15.76

int. whole peaks

IDA 5/21/08

Exam 5/22/08

1177

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	107	-0.05
2	T	Propene	2.500	2.061	17.6	92	0.00
3	T	Dichlorodifluoromethane	2.956	2.577	12.8	94	-0.01
4	T	Chloromethane	3.654	3.515	3.8	109	-0.01
5	T	Freon 114	1.425	1.458	-2.3	113	-0.01
6	T	Vinyl Chloride	2.523	2.067	18.1	86	-0.02
7	T	1,3-Butadiene	2.356	1.833	22.2	86	-0.02
8	T	Bromomethane	1.040	1.065	-2.4	116	-0.02
9	T	Chloroethane	1.153	1.062	7.9	101	-0.02
10	T	Ethanol	1.719	1.615	6.1	96	-0.08
11	T	Acetonitrile	4.463	4.348	2.6	103	-0.06
12	T	Acrolein	1.224	1.228	-0.3	112	-0.04
13	T	Acetone	1.652	1.457	11.8	96	-0.05
14	T	Trichlorofluoromethane	2.445	2.254	7.8	99	-0.02
15	T	Isopropanol	5.356	5.212	2.7	104	-0.09
16	T	Acrylonitrile	2.938	2.810	4.4	105	-0.07
17	T	1,1-Dichloroethene	1.197	1.143	4.5	103	-0.03
18	T	tert-Butanol	4.871	3.933	19.3	89	-0.08
19	T	Methylene Chloride	1.305	1.128	13.6	100	-0.04
20	T	Allyl Chloride	2.735	1.859	32.0#	81	-0.04
21	T	Trichlorotrifluoroethane	1.027	1.134	-10.4	119	-0.02
22	T	Carbon Disulfide	4.925	4.630	6.0	103	-0.02
23	T	trans-1,2-Dichloroethene	2.559	2.180	14.8	91	-0.04
24	T	1,1-Dichloroethane	2.918	2.500	14.3	94	-0.05
25	T	Methyl tert-Butyl Ether	3.922	3.204	18.3	87	-0.03
26	T	Vinyl Acetate	0.335	0.261	22.1	80	-0.04
27	T	2-Butanone	0.851	0.743	12.7	91	-0.05
28	T	cis-1,2-Dichloroethene	2.359	2.067	12.4	94	-0.05
29	T	Diisopropyl Ether	1.083	1.008	6.9	97	-0.03
30	T	Ethyl Acetate	0.629	0.553	12.1	93	-0.04
31	T	n-Hexane	3.557	3.187	10.4	99	-0.02
32	T	Chloroform	1.864	1.647	11.6	94	-0.05
33	S	1,2-Dichloroethane-d4(SS1)	1.763	1.488	15.6	87	-0.04
34	T	Tetrahydrofuran	0.853	0.736	13.7	92	-0.03
35	T	Ethyl tert-Butyl Ether	1.536	1.390	9.5	93	-0.03
36	T	1,2-Dichloroethane	2.230	1.899	14.8	91	-0.04
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	103	-0.02
38	T	1,1,1-Trichloroethane	0.481	0.446	7.3	97	-0.04

1178

5/22/08

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	0.256	0.234	8.6	94	-0.04
40	T	1-Butanol	0.474	0.424	10.5	93	-0.05
41	T	Benzene	1.226	1.053	14.1	95	-0.03
42	T	Carbon Tetrachloride	0.363	0.346	4.7	96	-0.03
43	T	Cyclohexane	0.485	0.422	13.0	97	-0.02
44	T	tert-Amyl Methyl Ether	0.863	0.712	17.5	86	-0.02
45	T	1,2-Dichloropropane	0.380	0.337	11.3	93	-0.03
46	T	Bromodichloromethane	0.364	0.334	8.2	94	-0.04
47	T	Trichloroethene	0.337	0.354	-5.0	116	-0.03
48	T	1,4-Dioxane	0.230	0.216	6.1	96	-0.03
49	T	Isooctane	2.036	1.869	8.2	97	-0.02
50	T	Methyl Methacrylate	0.121	0.127	-5.0	110	-0.03
51	T	n-Heptane	0.312	0.279	10.6	92	-0.02
52	T	cis-1,3-Dichloropropene	0.489	0.412	15.7	87	-0.02
53	T	4-Methyl-2-pentanone	0.446	0.403	9.6	95	-0.02
54	T	trans-1,3-Dichloropropene	0.432	0.351	18.8	83	-0.02
55	T	1,1,2-Trichloroethane	0.297	0.285	4.0	101	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	91	-0.01
57	S	Toluene-d8 (SS2)	2.462	2.587	-5.1	96	-0.02
58	T	Toluene	3.016	3.120	-3.4	101	-0.02
59	T	2-Hexanone	3.189	3.063	4.0	90	-0.03
60	T	Dibromochloromethane	0.787	0.894	-13.6	106	-0.02
61	T	1,2-Dibromoethane	0.778	0.864	-11.1	103	-0.02
62	T	Butyl Acetate	3.254	3.217	1.1	92	-0.02
63	T	n-Octane	0.965	0.996	-3.2	97	-0.02
64	T	Tetrachloroethene	0.745	0.906	-21.6	119	-0.02
65	T	Chlorobenzene	1.996	2.249	-12.7	108	-0.02
66	T	Ethylbenzene	3.440	3.537	-2.8	99	-0.01
67	T	m- & p-Xylene	2.254	2.349	-4.2	99	-0.02
68	T	Bromoform	0.426	0.535	-25.6	117	-0.02
69	T	Styrene	2.089	2.294	-9.8	104	-0.02
70	T	o-Xylene	2.404	2.538	-5.6	99	-0.02
71	T	n-Nonane	2.655	2.712	-2.1	95	-0.01
72	T	1,1,2,2-Tetrachloroethane	1.059	1.071	-1.1	93	-0.02
73	S	Bromofluorobenzene (SS3)	0.641	0.719	-12.2	103	0.00
74	T	Cumene	3.358	3.702	-10.2	105	-0.01
75	T	alpha-Pinene	1.641	1.780	-8.5	101	0.00
76	T	n-Propylbenzene	4.211	4.433	-5.3	101	-0.01

5/22/08

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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

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	3.637	4.007	-10.2	107	-0.01
78	T	4-Ethyltoluene	3.312	3.748	-13.2	107	-0.01
79	T	1,3,5-Trimethylbenzene	2.916	3.225	-10.6	106	-0.01
80	T	alpha-Methylstyrene	1.582	1.925	-21.7	112	-0.02
81	T	2-Ethyltoluene	3.608	4.084	-13.2	108	-0.01
82	T	1,2,4-Trimethylbenzene	3.013	3.272	-8.6	105	-0.02
83	T	n-Decane	2.388	2.488	-4.2	97	-0.01
84	T	Benzyl Chloride	2.511	2.546	-1.4	94	-0.02
85	T	1,3-Dichlorobenzene	1.748	2.064	-18.1	116	-0.02
86	T	1,4-Dichlorobenzene	1.670	2.002	-19.9	116	-0.01
87	T	sec-Butylbenzene	3.925	4.415	-12.5	108	-0.01
88	T	p-Isopropyltoluene	3.333	3.802	-14.1	110	-0.02
89	T	1,2,3-Trimethylbenzene	2.934	3.235	-10.3	105	-0.02
90	T	1,2-Dichlorobenzene	1.622	1.946	-20.0	115	-0.02
91	T	d-Limonene	1.087	1.107	-1.8	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.511	0.637	-24.7	115	-0.01
93	T	n-Undecane	2.511	2.640	-5.1	97	0.00
94	T	1,2,4-Trichlorobenzene	0.282	0.355	-25.9	117	0.00
95	T	Naphthalene	4.263	5.108	-19.8	115	-0.01
96	T	n-Dodecane	2.451	2.642	-7.8	101	0.00
97	T	Hexachloro-1,3-butadiene	0.422	0.561	-32.9#	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

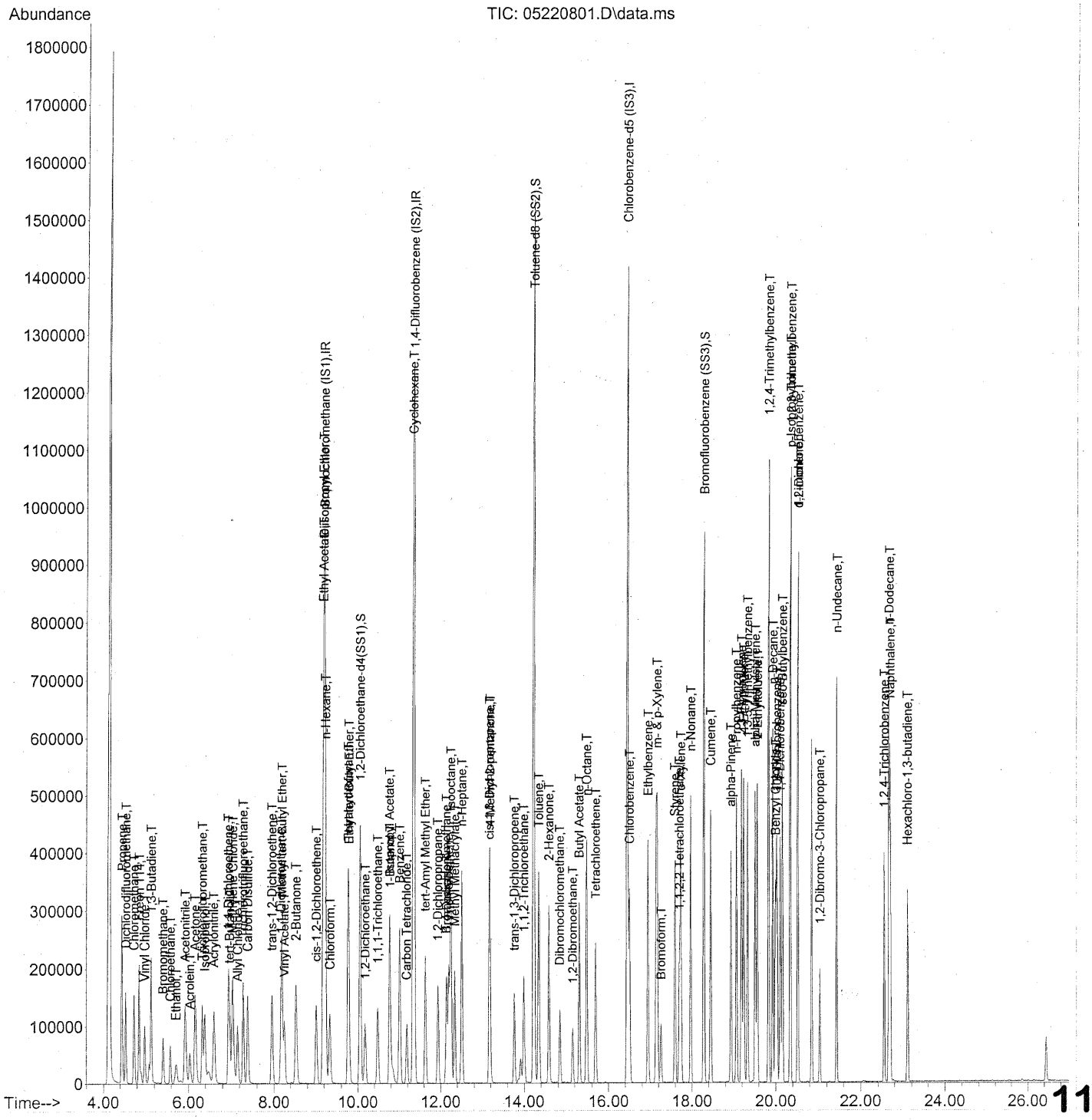
1180

5/22/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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	290078	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.36	114	1224526	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	472512	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	431634	21.101	ng		-0.04
Spiked Amount 25.000			Recovery = 84.40%				
57) Toluene-d8 (SS2)	14.23	98	1222346	26.273	ng		-0.02
Spiked Amount 25.000			Recovery = 105.08%				
73) Bromofluorobenzene (SS3)	18.29	174	339545	28.042	ng		0.00
Spiked Amount 25.000			Recovery = 112.16%				
Target Compounds							Qvalue
2) Propene	4.44	42	129132	4.452	ng		93
3) Dichlorodifluoromethane	4.53	85	155512	4.534	ng		98
4) Chloromethane	4.73	50	207974	4.905	ng		99
5) Freon 114	4.85	135	90496	5.472	ng		98
6) Vinyl Chloride	4.97	62	123508	4.219	ng		94
7) 1,3-Butadiene	5.12	54	115926	4.241	ng	#	86
8) Bromomethane	5.41	94	64848	5.375	ng		99
9) Chloroethane	5.58	64	64677	4.833	ng		95
10) Ethanol	5.71	45	85258m	4.275	ng		
11) Acetonitrile	5.92	41	247225	4.774	ng		99
12) Acrolein	6.03	56	68392	4.816	ng		99
13) Acetone	6.16	58	93847	4.897	ng	#	82
14) Trichlorofluoromethane	6.32	101	135985	4.794	ng		99
15) Isopropanol	6.38	45	311477m	5.012	ng		
16) Acrylonitrile	6.60	53	164648	4.830	ng		97
17) 1,1-Dichloroethene	6.93	96	74964	5.399	ng		93
18) tert-Butanol	6.96	59	232733m	4.118	ng		
19) Methylene Chloride	7.04	84	73301	4.841	ng	#	35
20) Allyl Chloride	7.15	41	113227	3.568	ng		79
21) Trichlorotrifluoroethane	7.28	151	74974	6.290	ng		89
22) Carbon Disulfide	7.39	76	268634	4.700	ng		100
23) trans-1,2-Dichloroethene	7.95	61	139120	4.685	ng		94
24) 1,1-Dichloroethane	8.17	63	160981	4.755	ng		95
25) Methyl tert-Butyl Ether	8.19	73	206305	4.533	ng		79
26) Vinyl Acetate	8.25	86	14856	3.821	ng	#	25
27) 2-Butanone	8.53	72	48283	4.890	ng	#	3
28) cis-1,2-Dichloroethene	9.01	61	133113	4.863	ng		92
29) Diisopropyl Ether	9.19	87	60261	4.795	ng	#	18
30) Ethyl Acetate	9.18	61	40746	5.579	ng		85
31) n-Hexane	9.23	57	207057	5.016	ng		94

1182

JDH 5/22/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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	123283	5.700	ng		95
34) Tetrahydrofuran	9.77	72	47409	4.790	ng	#	39
35) Ethyl tert-Butyl Ether	9.79	87	84689	4.751	ng	#	75
36) 1,2-Dichloroethane	10.18	62	121163	4.683	ng		95
38) 1,1,1-Trichloroethane	10.48	97	120138	5.102	ng		93
39) Isopropyl Acetate	10.77	61	57970	4.632	ng	#	58
40) 1-Butanol	10.78	56	94411	4.070	ng		93
41) Benzene	11.01	78	283741	4.727	ng		99
42) Carbon Tetrachloride	11.18	117	90738	5.104	ng		100
43) Cyclohexane	11.34	84	114781	4.827	ng	#	29
44) tert-Amyl Methyl Ether	11.63	73	181340	4.290	ng	#	72
45) 1,2-Dichloropropane	11.94	63	89873	4.826	ng		96
46) Bromodichloromethane	12.14	83	94125	5.277	ng		92
47) Trichloroethene	12.20	130	98928	5.984	ng		98
48) 1,4-Dioxane	12.14	88	60823	5.393	ng	#	67
49) Isooctane	12.25	57	475933	4.773	ng		94
50) Methyl Methacrylate	12.35	100	33010	5.569	ng	#	74
51) n-Heptane	12.51	71	75856	4.967	ng	#	50
52) cis-1,3-Dichloropropene	13.17	75	104882	4.381	ng		100
53) 4-Methyl-2-pentanone	13.19	58	103647	4.744	ng		84
54) trans-1,3-Dichloropropene	13.77	75	99574	4.709	ng		98
55) 1,1,2-Trichloroethane	13.99	97	76083	5.223	ng		90
58) Toluene	14.35	91	324323	5.690	ng		98
59) 2-Hexanone	14.58	43	295244	4.898	ng		96
60) Dibromochloromethane	14.84	129	93818	6.306	ng		99
61) 1,2-Dibromoethane	15.15	107	89022	6.052	ng		99
62) Butyl Acetate	15.31	43	319211	5.191	ng		94
63) n-Octane	15.48	57	97889	5.366	ng		95
64) Tetrachloroethene	15.69	166	93354	6.626	ng		98
65) Chlorobenzene	16.50	112	233757	6.197	ng		99
66) Ethylbenzene	16.94	91	361025	5.552	ng		93
67) m- & p-Xylene	17.16	91	572722	13.444	ng		91
68) Bromoform	17.26	173	66178	8.226	ng		98
69) Styrene	17.59	104	234178	5.931	ng		94
70) o-Xylene	17.73	91	292623	6.441	ng		93
71) n-Nonane	17.97	43	263976	5.261	ng		91
72) 1,1,2,2-Tetrachloroethane	17.70	83	124548	6.223	ng		94
74) Cumene	18.45	105	377869	5.954	ng		93
75) alpha-Pinene	18.93	93	178352	5.751	ng		94
76) n-Propylbenzene	19.06	91	439879	5.527	ng		92
77) 3-Ethyltoluene	19.19	105	386261	5.619	ng		94
78) 4-Ethyltoluene	19.24	105	393155	6.281	ng		92
79) 1,3,5-Trimethylbenzene	19.33	105	329102	5.972	ng		9

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:08:01 2008
Quant Method : J:\MS16\METHODS\R16051208.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	185518	6.205	ng		98
81) 2-Ethyltoluene	19.57	105	382055	5.602	ng		92
82) 1,2,4-Trimethylbenzene	19.83	105	340161	5.974	ng		91
83) n-Decane	19.93	57	244491	5.417	ng		81
84) Benzyl Chloride	20.00	91	257428	5.425	ng		89
85) 1,3-Dichlorobenzene	20.02	146	206799	6.258	ng		100
86) 1,4-Dichlorobenzene	20.10	146	208132	6.594	ng		98
87) sec-Butylbenzene	20.16	105	446484	6.019	ng		95
88) p-Isopropyltoluene	20.34	119	423921	6.729	ng		94
89) 1,2,3-Trimethylbenzene	20.34	105	336324	6.065	ng		88
90) 1,2-Dichlorobenzene	20.52	146	198636	6.481	ng		99
91) d-Limonene	20.52	68	110888	5.398	ng		90
92) 1,2-Dibromo-3-Chloropr...	21.04	157	62605	6.482	ng		87
93) n-Undecane	21.44	57	261969	5.519	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	37531	7.039	ng	#	86
95) Naphthalene	22.69	128	506851	6.290	ng		99
96) n-Dodecane	22.66	57	264637	5.714	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	58845	7.382	ng		99

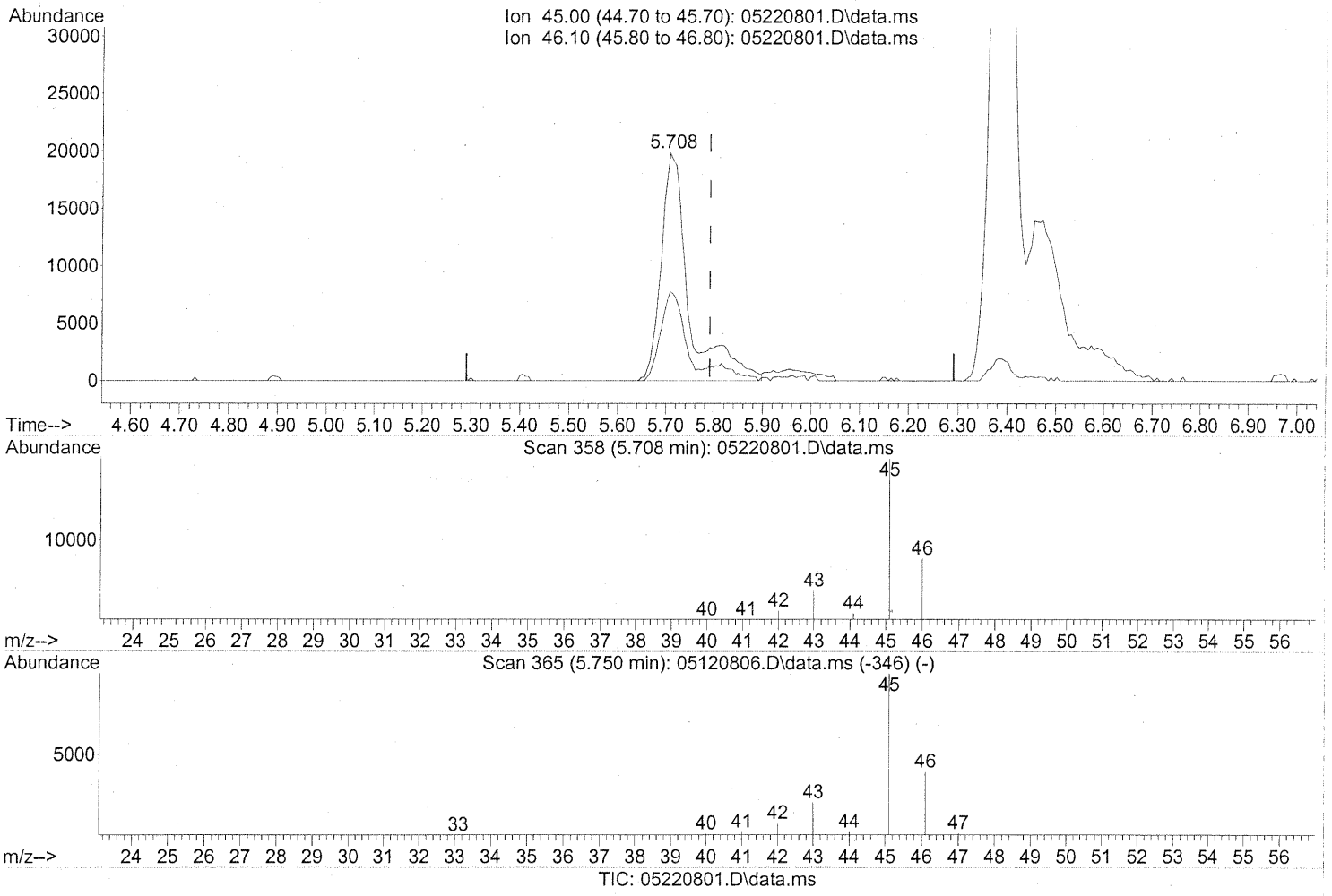
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1184

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220801.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 3.96ng

response 78989

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.83
0.00	0.00	0.00
0.00	0.00	0.00

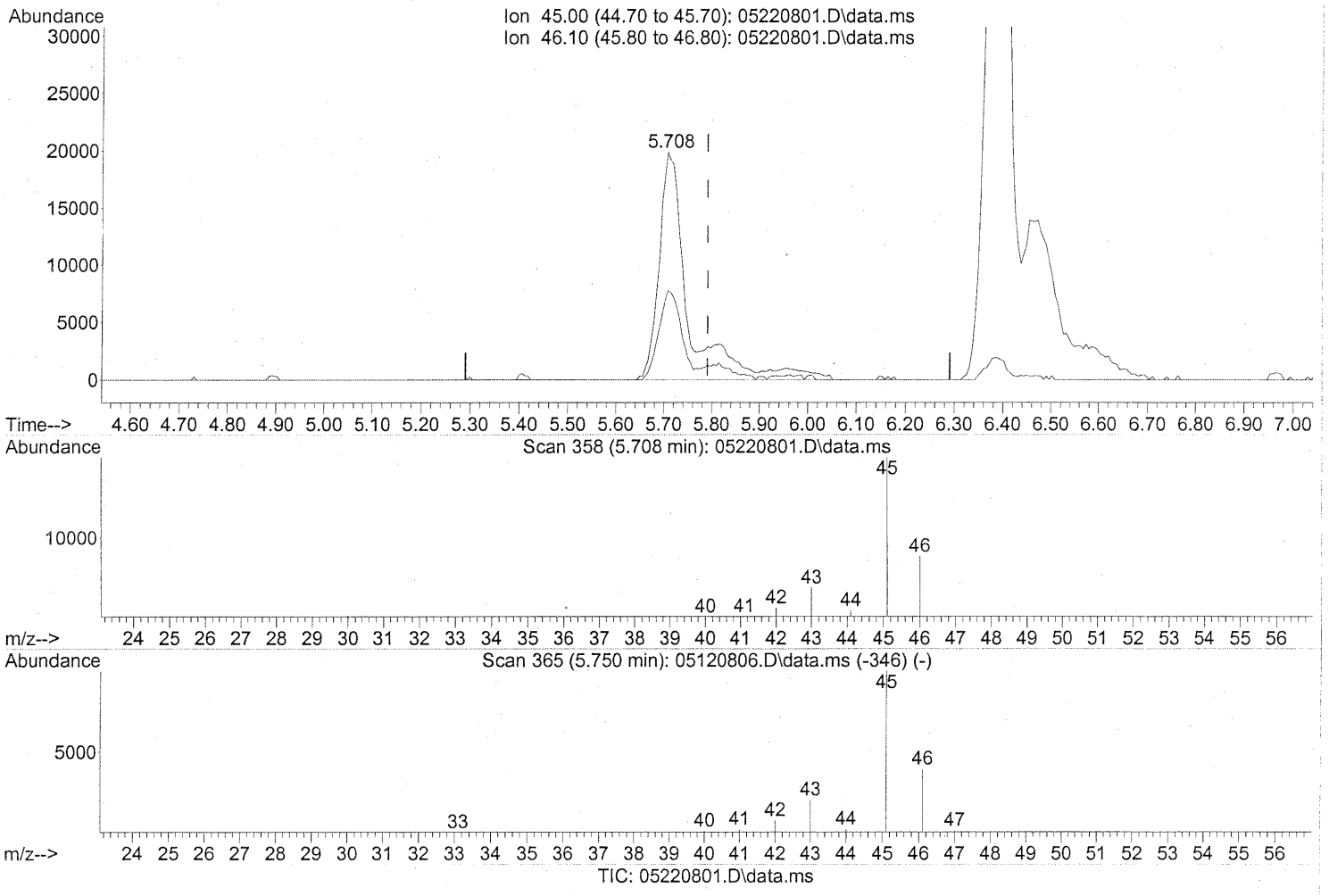
tailing

1185

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220801.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 4.27ng m

response 85258

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	36.90
0.00	0.00	0.00
0.00	0.00	0.00

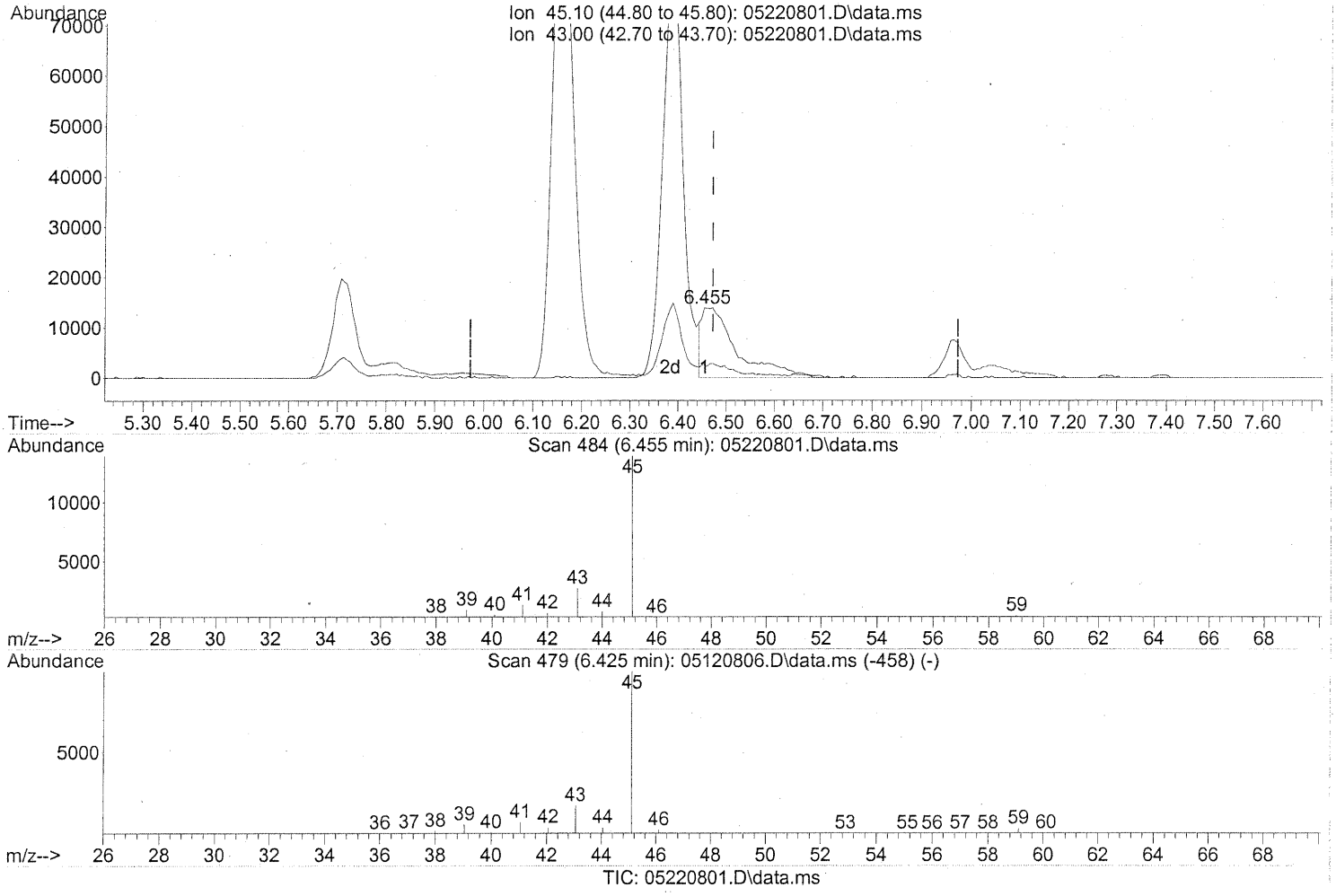
added tailing
JDH 5/22/08
TOM 5/22/08

1186

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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: 05220801.D\data.ms

(15) Isopropanol (T)

6.455min (-0.018) 1.15ng

response 71486

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

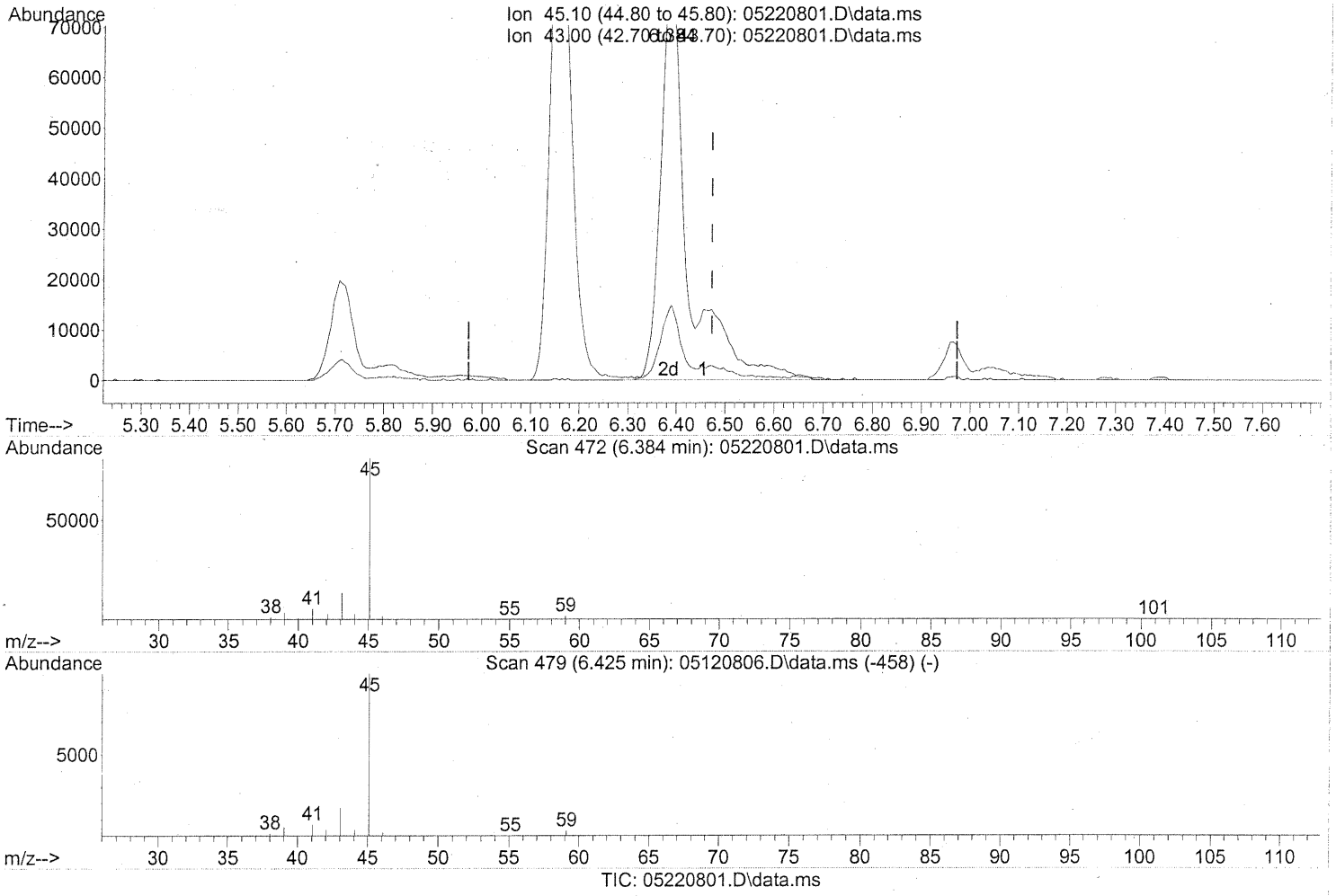
split peaks

1187

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.384min (-0.089) 5.01ng m

response 311477

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

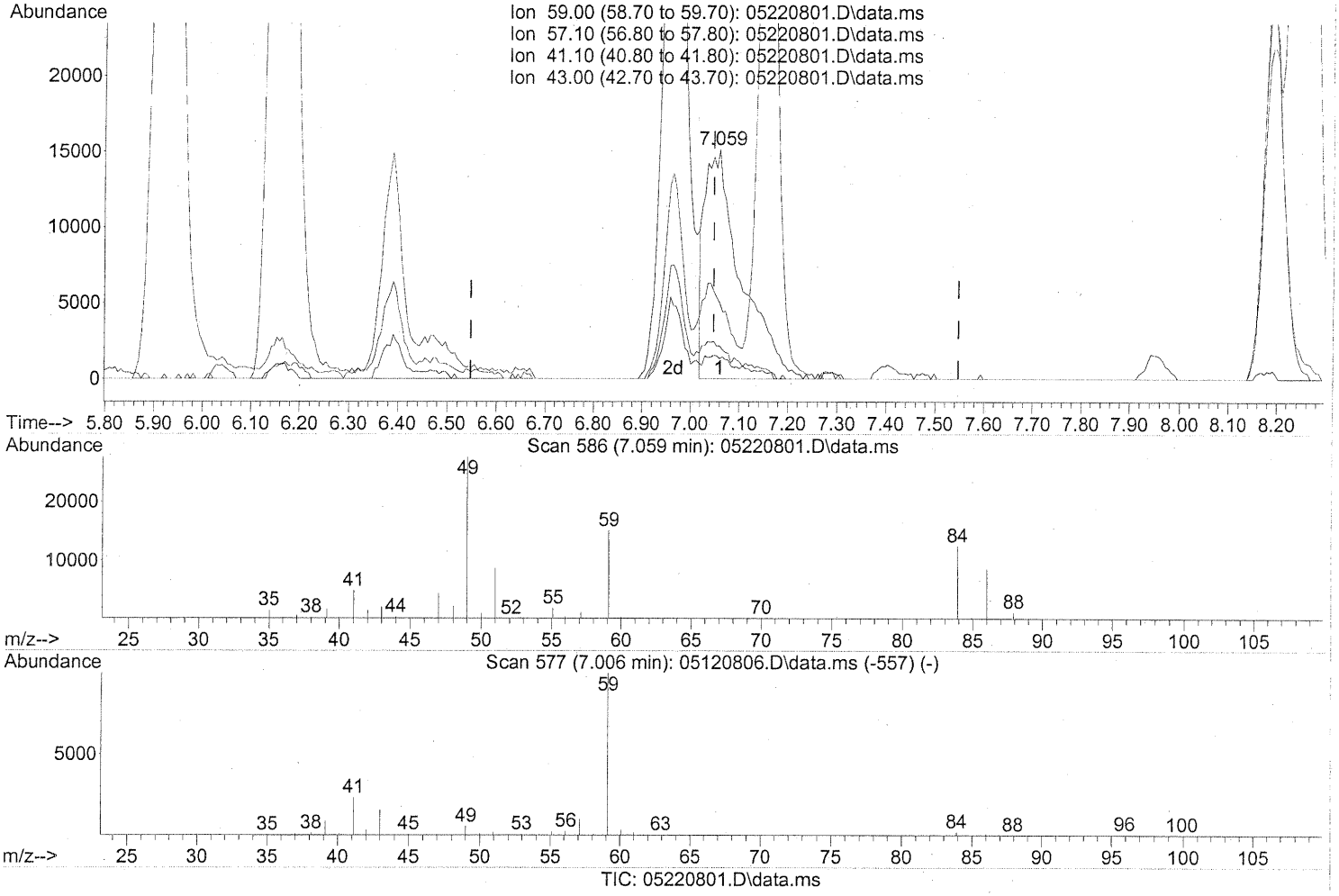
DT 5/22/08

EM 5/22/08

1188

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

7.059min (+0.012) 1.37ng

response 77611

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.80
41.10	21.90	0.00#
43.00	17.20	15.73

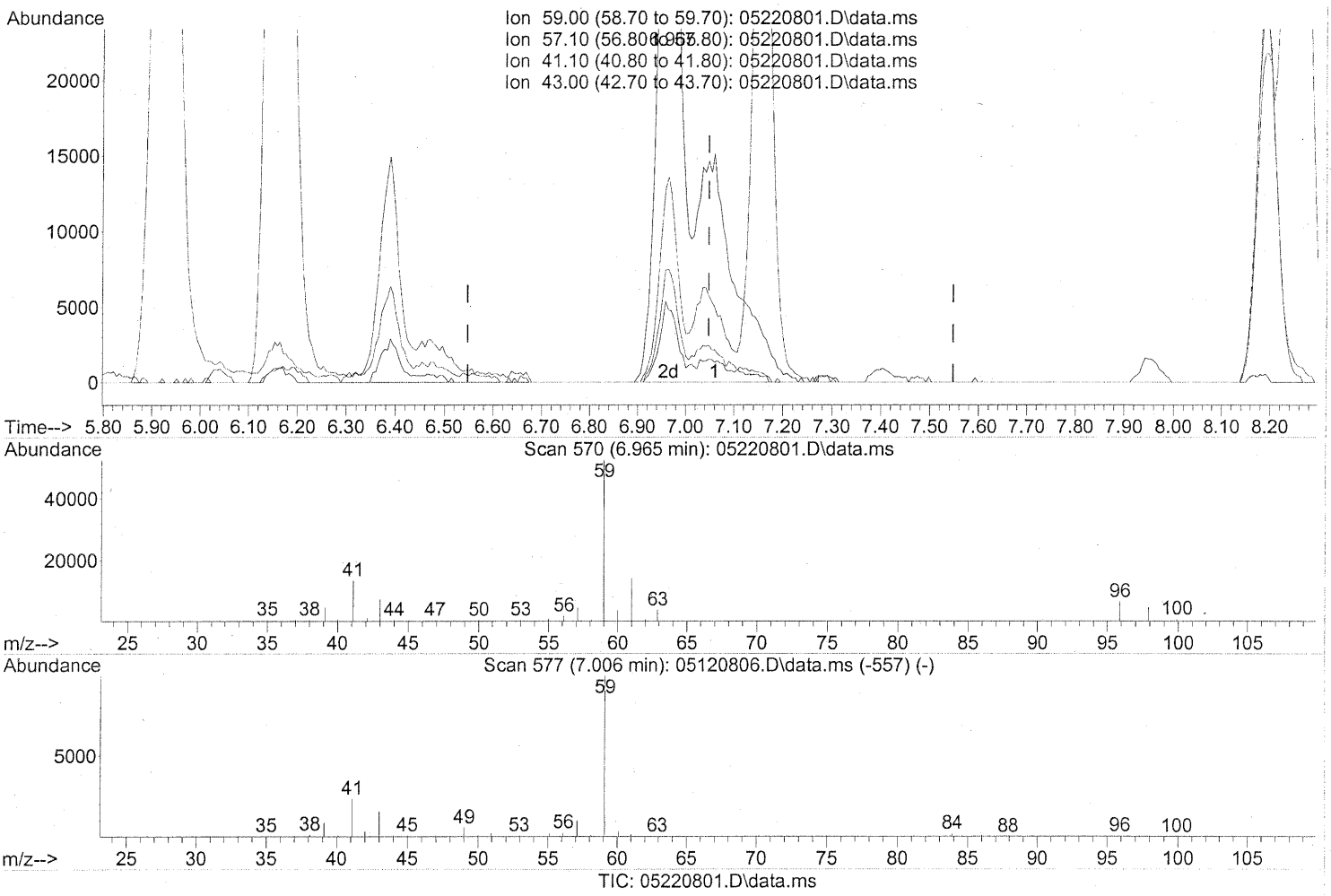
split peaks

1189

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 22 14:06:57 2008
Quant Method : J:\MS16\METHODS\R16051208.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)

6.965min (-0.083) 4.12ng m

response 232733

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	3.27
41.10	21.90	0.00#
43.00	17.20	5.24

int. whole peaks
KM 5/22/08
Em 5/22/08

1190

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

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	108	0.00
2	T	Propene	1.974	1.600	18.9	102	0.00
3	T	Dichlorodifluoromethane	3.639	3.095	14.9	100	0.00
4	T	Chloromethane	2.357	2.203	6.5	102	0.00
5	T	Freon 114	1.790	1.531	14.5	102	0.00
6	T	Vinyl Chloride	2.358	2.072	12.1	101	-0.01
7	T	1,3-Butadiene	1.754	1.543	12.0	93	0.00
8	T	Bromomethane	1.313	1.157	11.9	102	0.00
9	T	Chloroethane	1.120	1.007	10.1	103	0.00
10	T	Ethanol	1.314	1.161	11.6	105	0.01
11	T	Acetonitrile	3.801	3.141	17.4	105	0.00
12	T	Acrolein	0.939	0.859	8.5	101	0.00
13	T	Acetone	1.346	1.100	18.3	101	0.00
14	T	Trichlorofluoromethane	3.122	2.794	10.5	103	0.00
15	T	Isopropanol	4.292	3.881	9.6	103	0.02
16	T	Acrylonitrile	2.049	2.007	2.0	104	0.00
17	T	1,1-Dichloroethene	1.373	1.262	8.1	104	0.00
18	T	tert-Butanol	3.651	3.552	2.7	101	0.02
19	T	Methylene Chloride	1.504	1.332	11.4	105	0.00
20	T	Allyl Chloride	2.007	2.191	-9.2	105	0.00
21	T	Trichlorotrifluoroethane	1.420	1.278	10.0	106	0.00
22	T	Carbon Disulfide	5.707	5.111	10.4	104	0.00
23	T	trans-1,2-Dichloroethene	2.225	2.096	5.8	105	0.00
24	T	1,1-Dichloroethane	2.610	2.402	8.0	105	0.00
25	T	Methyl tert-Butyl Ether	4.352	3.987	8.4	104	0.00
26	T	Vinyl Acetate	0.249	0.278	-11.6	105	0.00
27	T	2-Butanone	0.982	0.908	7.5	103	0.00
28	T	cis-1,2-Dichloroethene	2.126	1.940	8.7	103	0.00
29	T	Diisopropyl Ether	1.204	1.104	8.3	103	0.00
30	T	Ethyl Acetate	0.530	0.520	1.9	105	0.00
31	T	n-Hexane	2.676	2.493	6.8	103	0.00
32	T	Chloroform	2.280	2.043	10.4	104	0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.732	1.660	4.2	104	0.00
34	T	Tetrahydrofuran	0.939	0.878	6.5	103	0.00
35	T	Ethyl tert-Butyl Ether	1.686	1.553	7.9	102	0.00
36	T	1,2-Dichloroethane	2.202	1.976	10.3	102	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	0.00
38	T	1,1,1-Trichloroethane	0.569	0.523	8.1	104	0.00

5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	T	Isopropyl Acetate	0.214	0.218	-1.9	102	0.00
40	T	1-Butanol	0.344	0.355	-3.2	102	0.00
41	T	Benzene	1.309	1.205	7.9	103	0.00
42	T	Carbon Tetrachloride	0.504	0.487	3.4	103	0.01
43	T	Cyclohexane	0.509	0.466	8.4	104	0.00
44	T	tert-Amyl Methyl Ether	0.939	0.888	5.4	103	0.00
45	T	1,2-Dichloropropane	0.350	0.326	6.9	104	0.00
46	T	Bromodichloromethane	0.442	0.421	4.8	104	0.01
47	T	Trichloroethene	0.402	0.345	14.2	105	0.00
48	T	1,4-Dioxane	0.247	0.233	5.7	105	0.00
49	T	Isooctane	1.501	1.404	6.5	103	0.00
50	T	Methyl Methacrylate	0.131	0.132	-0.8	103	0.00
51	T	n-Heptane	0.348	0.333	4.3	103	0.00
52	T	cis-1,3-Dichloropropene	0.520	0.511	1.7	102	0.00
53	T	4-Methyl-2-pentanone	0.348	0.342	1.7	103	0.00
54	T	trans-1,3-Dichloropropene	0.449	0.460	-2.4	102	0.00
55	T	1,1,2-Trichloroethane	0.323	0.303	6.2	103	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
57	S	Toluene-d8 (SS2)	2.245	2.209	1.6	104	0.00
58	T	Toluene	3.052	2.828	7.3	102	0.00
59	T	2-Hexanone	2.103	2.107	-0.2	101	0.00
60	T	Dibromochloromethane	0.824	0.831	-0.8	104	0.00
61	T	1,2-Dibromoethane	0.799	0.768	3.9	104	0.00
62	T	Butyl Acetate	2.135	2.163	-1.3	101	0.00
63	T	n-Octane	0.675	0.653	3.3	103	0.00
64	T	Tetrachloroethene	0.903	0.826	8.5	103	0.00
65	T	Chlorobenzene	2.046	1.922	6.1	104	0.00
66	T	Ethylbenzene	3.500	3.388	3.2	102	0.00
67	T	m- & p-Xylene	2.341	2.279	2.6	102	0.00
68	T	Bromoform	0.613	0.642	-4.7	103	0.00
69	T	Styrene	2.092	2.071	1.0	102	0.00
70	T	o-Xylene	2.527	2.429	3.9	102	0.00
71	T	n-Nonane	1.794	1.756	2.1	100	0.00
72	T	1,1,2,2-Tetrachloroethane	1.053	1.106	-5.0	103	0.00
73	S	Bromofluorobenzene (SS3)	0.913	0.936	-2.5	106	0.00
74	T	Cumene	3.365	3.239	3.7	102	0.00
75	T	alpha-Pinene	1.740	1.703	2.1	102	0.00
76	T	n-Propylbenzene	4.282	4.230	1.2	101	0.00

1192

DA 5/24/08

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	T	3-Ethyltoluene	3.582	3.607	-0.7	102	0.00
78	T	4-Ethyltoluene	3.339	3.293	1.4	100	0.00
79	T	1,3,5-Trimethylbenzene	3.017	2.932	2.8	101	0.00
80	T	alpha-Methylstyrene	1.633	1.672	-2.4	100	0.00
81	T	2-Ethyltoluene	3.630	3.614	0.4	100	0.00
82	T	1,2,4-Trimethylbenzene	3.071	3.082	-0.4	99	0.00
83	T	n-Decane	1.690	1.703	-0.8	99	0.00
84	T	Benzyl Chloride	2.061	2.390	-16.0	99	0.00
85	T	1,3-Dichlorobenzene	1.920	1.890	1.6	100	0.00
86	T	1,4-Dichlorobenzene	1.861	1.838	1.2	101	0.00
87	T	sec-Butylbenzene	3.925	3.926	-0.0	101	0.00
88	T	p-Isopropyltoluene	3.231	3.368	-4.2	100	0.00
89	T	1,2,3-Trimethylbenzene	3.005	3.059	-1.8	100	0.00
90	T	1,2-Dichlorobenzene	1.821	1.824	-0.2	100	0.00
91	T	d-Limonene	1.224	1.268	-3.6	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.565	0.629	-11.3	100	0.00
93	T	n-Undecane	1.768	1.792	-1.4	100	0.00
94	T	1,2,4-Trichlorobenzene	1.334	1.311	1.7	102	0.00
95	T	Naphthalene	4.051	4.152	-2.5	100	0.00
96	T	n-Dodecane	1.759	1.792	-1.9	99	0.00
97	T	Hexachloro-1,3-butadiene	0.888	0.855	3.7	102	0.00

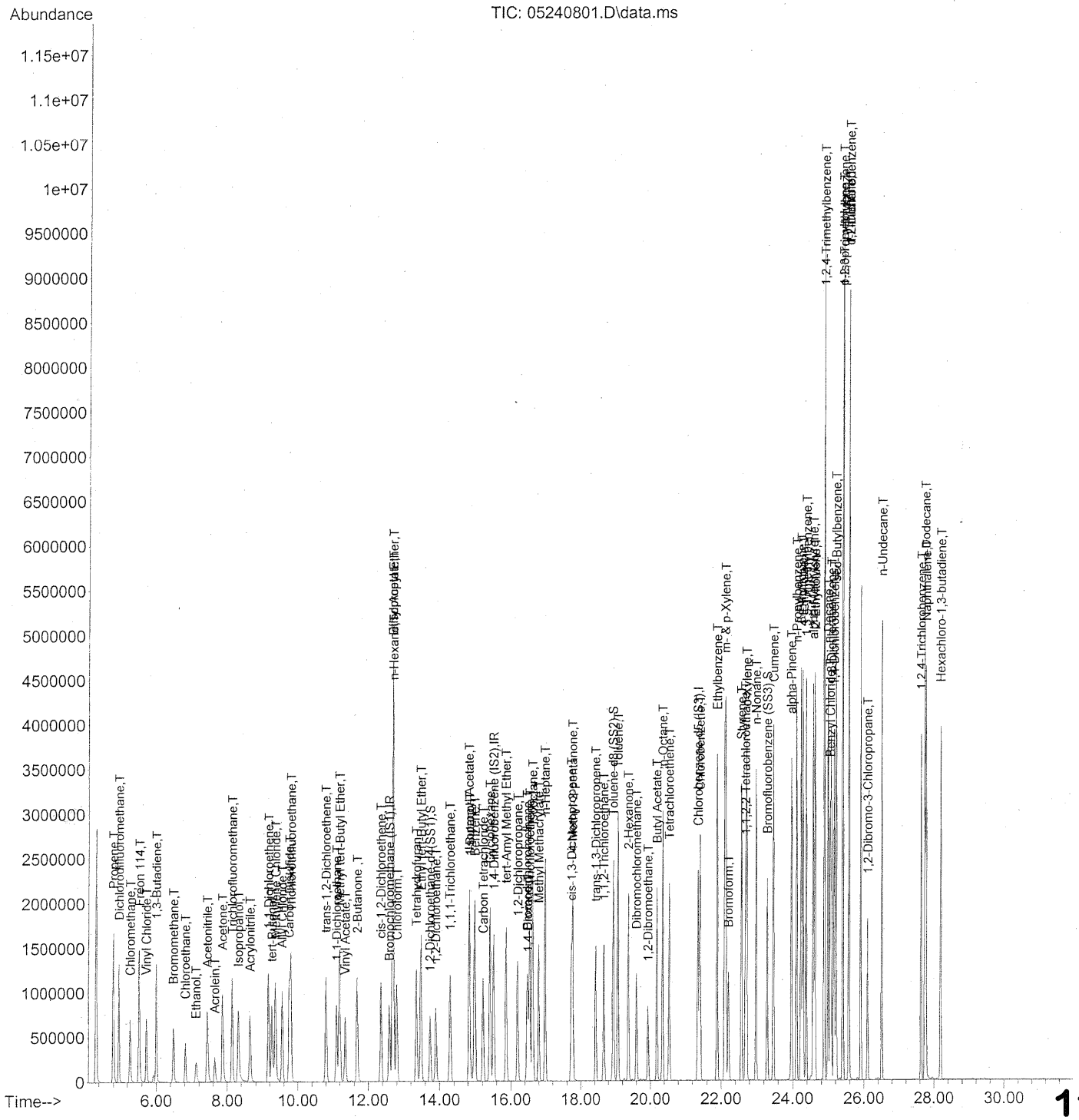
(#) = Out of Range SPCC's out = 0 CCC's out = 0

KDH 5/24/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	448388	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	1911390	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	908326	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	13.73	65	744461	23.962	ng		0.00
Spiked Amount 25.000			Recovery =	95.84%			
57) Toluene-d8 (SS2)	18.93	98	2006594	24.598	ng		0.00
Spiked Amount 25.000			Recovery =	98.40%			
73) Bromofluorobenzene (SS3)	23.29	174	850414	25.636	ng		0.00
Spiked Amount 25.000			Recovery =	102.56%			
Target Compounds							Qvalue
2) Propene	4.79	42	775000	21.884	ng		89
3) Dichlorodifluoromethane	4.96	85	1443137	22.109	ng		99
4) Chloromethane	5.28	50	1007552	23.838	ng		97
5) Freon 114	5.53	135	736012	22.922	ng		99
6) Vinyl Chloride	5.72	62	958661	22.668	ng		96
7) 1,3-Butadiene	6.00	54	755319	24.011	ng	#	78
8) Bromomethane	6.48	94	545923	23.180	ng		98
9) Chloroethane	6.82	64	474807	23.635	ng		95
10) Ethanol	7.11	45	474680m	20.135	ng		
11) Acetonitrile	7.43	41	1380433	20.248	ng		96
12) Acrolein	7.64	56	369670	21.950	ng		98
13) Acetone	7.86	58	548370	22.719	ng	#	59
14) Trichlorofluoromethane	8.14	101	1302813	23.264	ng		100
15) Isopropanol	8.32	45	1795925	23.329	ng		95
16) Acrylonitrile	8.64	53	910488	24.773	ng		98
17) 1,1-Dichloroethene	9.16	96	640338	25.994	ng	#	80
18) tert-Butanol	9.26	59	1624655	24.812	ng		94
19) Methylene Chloride	9.36	84	668993	24.800	ng	#	81
20) Allyl Chloride	9.54	41	1033646	28.717	ng		99
21) Trichlorotrifluoroethane	9.81	151	653143	25.646	ng		94
22) Carbon Disulfide	9.76	76	2291901	22.389	ng		96
23) trans-1,2-Dichloroethene	10.80	61	1033867	25.910	ng		85
24) 1,1-Dichloroethane	11.10	63	1197521	25.583	ng		95
25) Methyl tert-Butyl Ether	11.19	73	1987752	25.466	ng		86
26) Vinyl Acetate	11.34	86	121969	27.342	ng	#	87
27) 2-Butanone	11.68	72	456137	25.892	ng		95
28) cis-1,2-Dichloroethene	12.35	61	967113	25.360	ng		83
29) Diisopropyl Ether	12.69	87	510680	23.657	ng	#	89
30) Ethyl Acetate	12.69	61	296494	31.177	ng		80
31) n-Hexane	12.70	57	1251997	26.090	ng		89

5/24/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	12.80	83	1183268	28.940	ng		100
34) Tetrahydrofuran	13.35	72	437720	25.990	ng		94
35) Ethyl tert-Butyl Ether	13.48	87	732750	24.239	ng	#	76
36) 1,2-Dichloroethane	13.89	62	974424	24.667	ng		98
38) 1,1,1-Trichloroethane	14.29	97	1099443	25.257	ng		96
39) Isopropyl Acetate	14.83	61	420724	25.770	ng	#	43
40) 1-Butanol	14.84	56	618884	23.556	ng	#	62
41) Benzene	14.99	78	2534542	25.325	ng		99
42) Carbon Tetrachloride	15.22	117	998364	25.903	ng		99
43) Cyclohexane	15.41	84	989738	25.422	ng	#	75
44) tert-Amyl Methyl Ether	15.87	73	1764413	24.576	ng		94
45) 1,2-Dichloropropane	16.20	63	681017	25.432	ng		99
46) Bromodichloromethane	16.46	83	926681	27.393	ng		100
47) Trichloroethene	16.54	130	750724	24.453	ng		99
48) 1,4-Dioxane	16.49	88	513515	27.204	ng		80
49) Isooctane	16.62	57	2791587	24.329	ng		80
50) Methyl Methacrylate	16.80	100	266950	26.693	ng		89
51) n-Heptane	16.98	71	707931	26.621	ng	#	80
52) cis-1,3-Dichloropropene	17.73	75	1015464	25.525	ng		98
53) 4-Methyl-2-pentanone	17.77	58	687525	25.874	ng		80
54) trans-1,3-Dichloropropene	18.43	75	1020600	29.739	ng		100
55) 1,1,2-Trichloroethane	18.67	97	632559	25.577	ng		97
58) Toluene	19.07	91	2825935	25.485	ng		98
59) 2-Hexanone	19.37	43	1952301	25.551	ng		83
60) Dibromochloromethane	19.60	129	839648	28.035	ng		99
61) 1,2-Dibromoethane	19.93	107	761584	26.239	ng		100
62) Butyl Acetate	20.19	43	2066839	26.650	ng		86
63) n-Octane	20.35	57	617086	25.163	ng		89
64) Tetrachloroethene	20.55	166	819456	24.974	ng		100
65) Chlorobenzene	21.41	112	1920539	25.834	ng		99
66) Ethylbenzene	21.89	91	3323590	26.139	ng		94
67) m- & p-Xylene	22.12	91	5340260	62.790	ng		92
68) Bromoform	22.21	173	765541	34.349	ng		98
69) Styrene	22.57	104	2032108	26.729	ng		97
70) o-Xylene	22.72	91	2692182	29.324	ng		94
71) n-Nonane	22.98	43	1646255	25.253	ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.69	83	1237691	32.346	ng		97
74) Cumene	23.47	105	3177554	25.991	ng		99
75) alpha-Pinene	23.96	93	1639241	25.931	ng		96
76) n-Propylbenzene	24.10	91	4041904	25.983	ng		98
77) 3-Ethyltoluene	24.23	105	3341752	25.680	ng		99
78) 4-Ethyltoluene	24.28	105	3326226	27.417	ng		100
79) 1,3,5-Trimethylbenzene	24.38	105	2875882	26.240	ng		99

DM 5/24/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1549280	26.109	ng	97
81) 2-Ethyltoluene	24.61	105	3256812	24.695	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	3079695	27.599	ng	99
83) n-Decane	24.99	57	1609226	26.211	ng	85
84) Benzyl Chloride	25.05	91	2326748	31.075	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1819420	26.080	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1836924	27.161	ng	100
87) sec-Butylbenzene	25.21	105	3823150	26.806	ng	98
88) p-Isopropyltoluene	25.40	119	3610270	30.752	ng	96
89) 1,2,3-Trimethylbenzene	25.41	105	3056606	27.995	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1789296	27.043	ng	99
91) d-Limonene	25.58	68	1221227	27.471	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	594083	28.932	ng	93
93) n-Undecane	26.50	57	1712452	26.651	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	1333354	27.513	ng	95
95) Naphthalene	27.77	128	3967440	26.957	ng	99
96) n-Dodecane	27.74	57	1725244	26.999	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	863387	26.763	ng	98

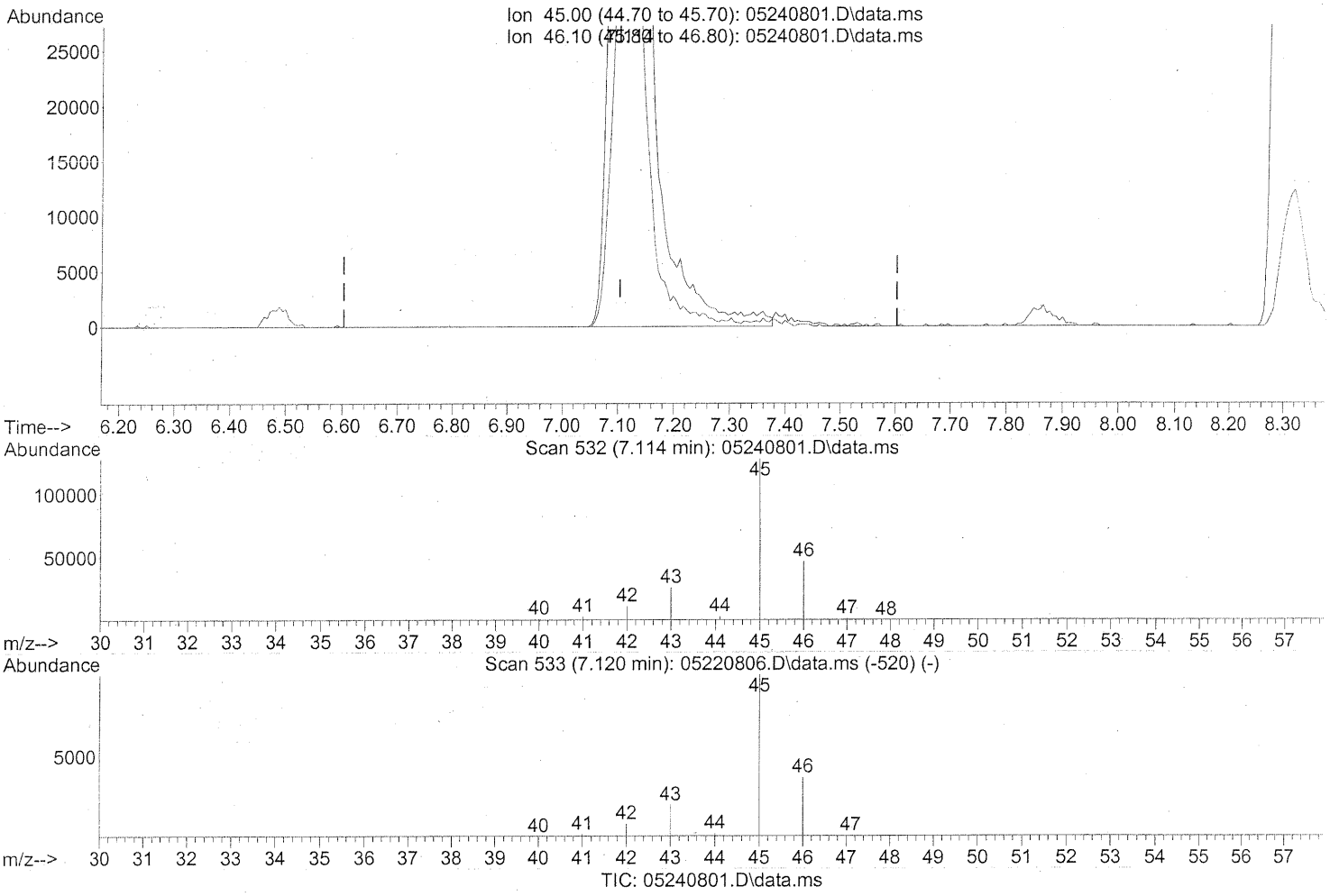
(#) = qualifier out of range (m) = manual integration (+) = signals summed

16A 5/24/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05240801.D\data.ms

(10) Ethanol (T)

7.114min (+0.011) 19.97ng

response 470799

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.16
0.00	0.00	0.00
0.00	0.00	0.00

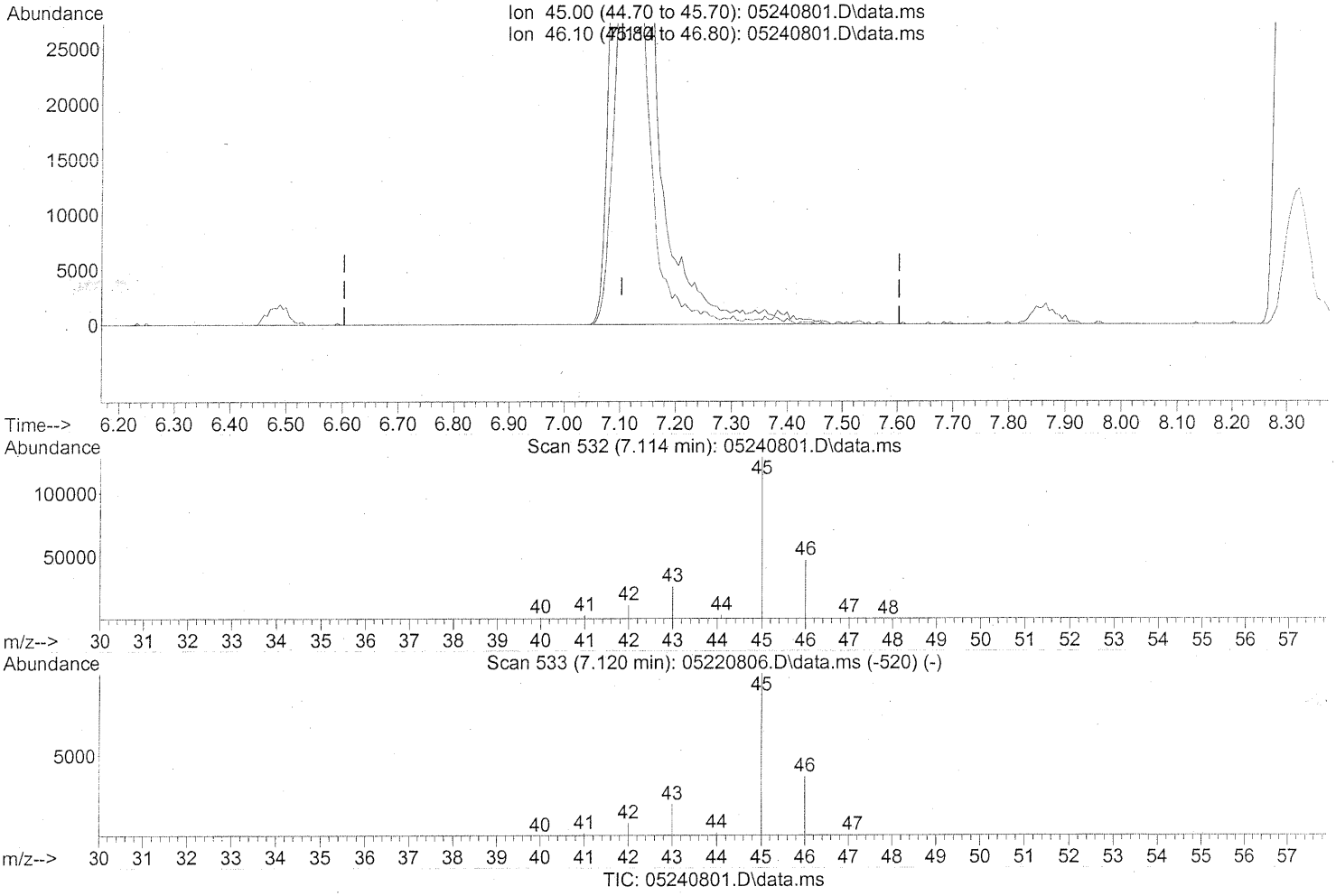
tailing

1198

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 08:13:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 20.13ng m

response 474680

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.86
0.00	0.00	0.00
0.00	0.00	0.00

added tailing
IBT 5/24/08
LM 5/30/08

1199

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:35:50 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

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	108	-0.01
2	S	1,2-Dichloroethane-d4(SS1)	1.732	1.660	4.2	104	-0.02
3	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	107	-0.01
4	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
5	S	Toluene-d8 (SS2)	2.245	2.209	1.6	104	-0.01
6	S	Bromofluorobenzene (SS3)	0.913	0.936	-2.5	106	0.00
7		tert-Butylbenzene	2.936	2.986	-1.7	100	-0.01
8		n-Butylbenzene	3.247	3.307	-1.8	99	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

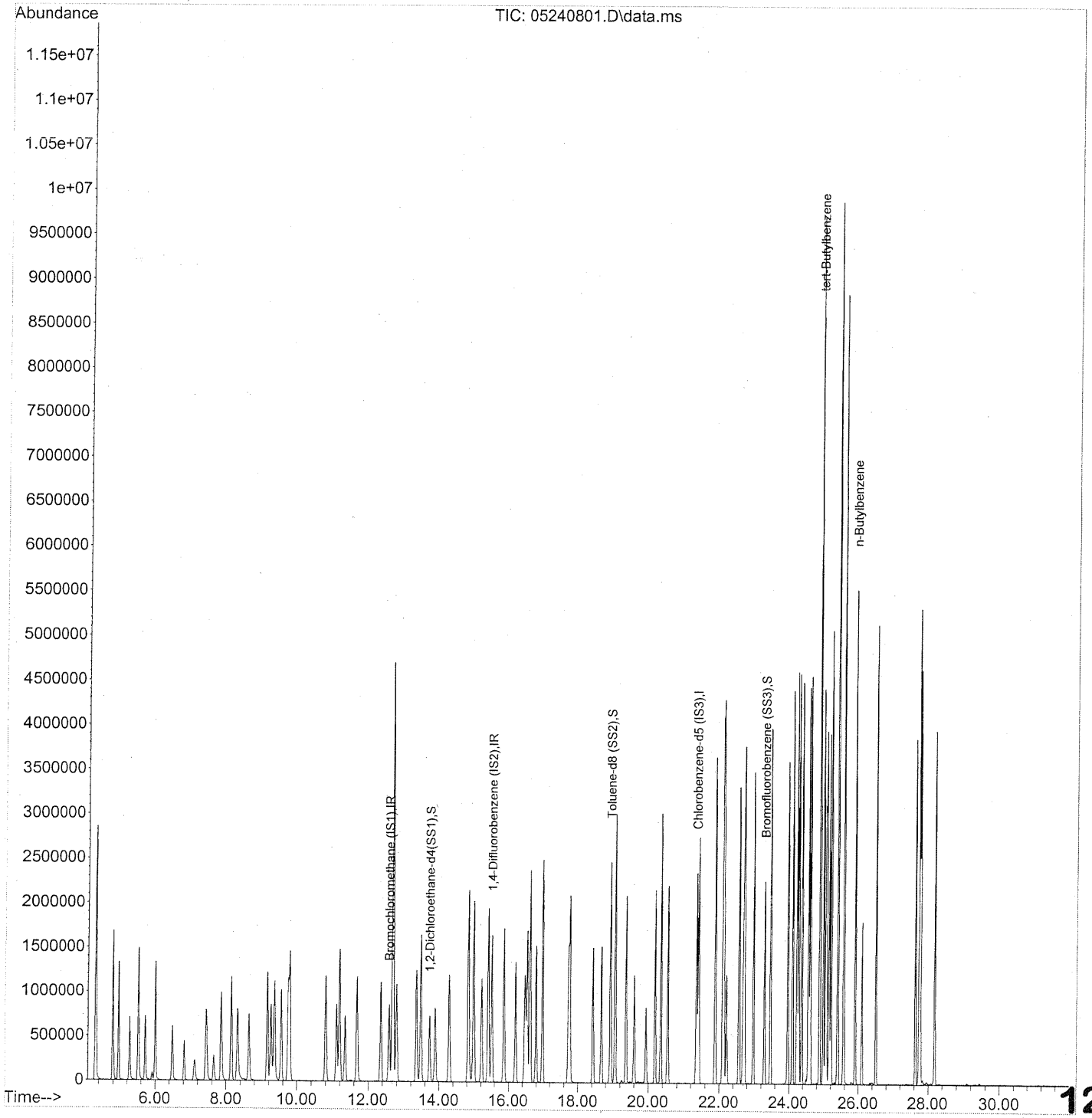
1200

5/26/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:35:50 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:35:50 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	448388	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	1911390	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	908326	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	13.73	65	744461	23.962	ng	-0.02
Spiked Amount 25.000			Recovery = 95.84%			
5) Toluene-d8 (SS2)	18.93	98	2006594	24.598	ng	-0.01
Spiked Amount 25.000			Recovery = 98.40%			
6) Bromofluorobenzene (SS3)	23.29	174	850414	25.636	ng	0.00
Spiked Amount 25.000			Recovery = 102.56%			
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	2820813	26.446	ng	99
8) n-Butylbenzene	25.91	91	3220206	27.299	ng	98

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

5/26/08

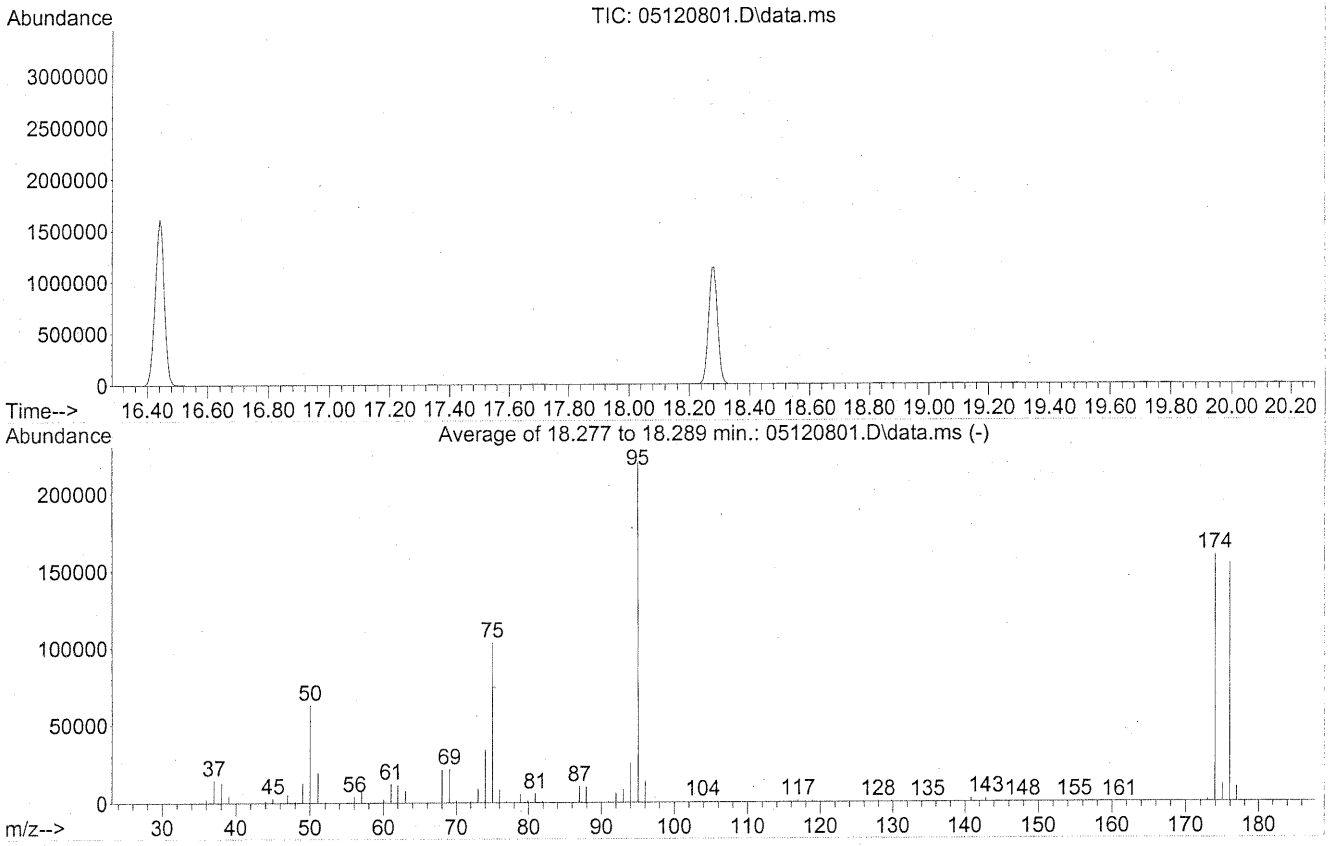
1202

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS16\DATA\2008_05\12a\
Data File : 05120801.D
Acq On : 12 May 2008 3:44 pm
Operator : WA
Sample : 25ng BFB STD
Misc : S20-04290801
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 06 17:02:30 2008



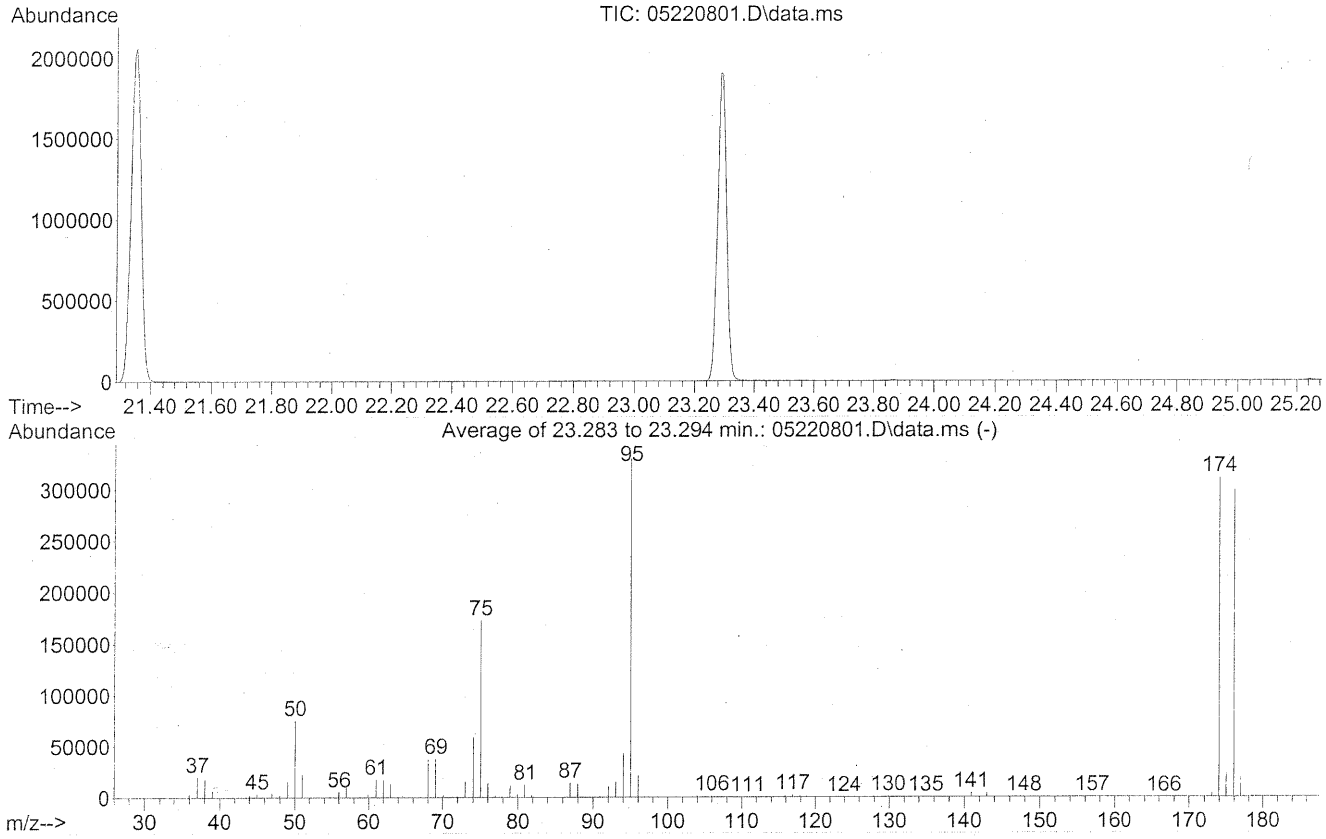
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2469

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	28.8	63275	PASS
75	95	30	66	47.2	103656	PASS
95	95	100	100	100.0	219499	PASS
96	95	5	9	6.3	13778	PASS
173	174	0.00	2	0.9	1456	PASS
174	95	50	120	72.8	159744	PASS
175	174	4	9	7.2	11432	PASS
176	174	93	101	96.6	154325	PASS
177	176	5	9	6.4	9807	PASS

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 3:15 am
Operator : RTB
Sample : BFB Tune Standard (200mL)
Misc : S20-04300802
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3373, 3374, 3375; Background Corrected with Scan 3363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	75640	PASS
75	95	30	66	52.4	172992	PASS
95	95	100	100	100.0	330048	PASS
96	95	5	9	6.6	21824	PASS
173	174	0.00	2	1.3	4088	PASS
174	95	50	120	94.4	311659	PASS
175	174	4	9	7.6	23637	PASS
176	174	93	101	96.0	299328	PASS
177	176	5	9	6.5	19533	PASS

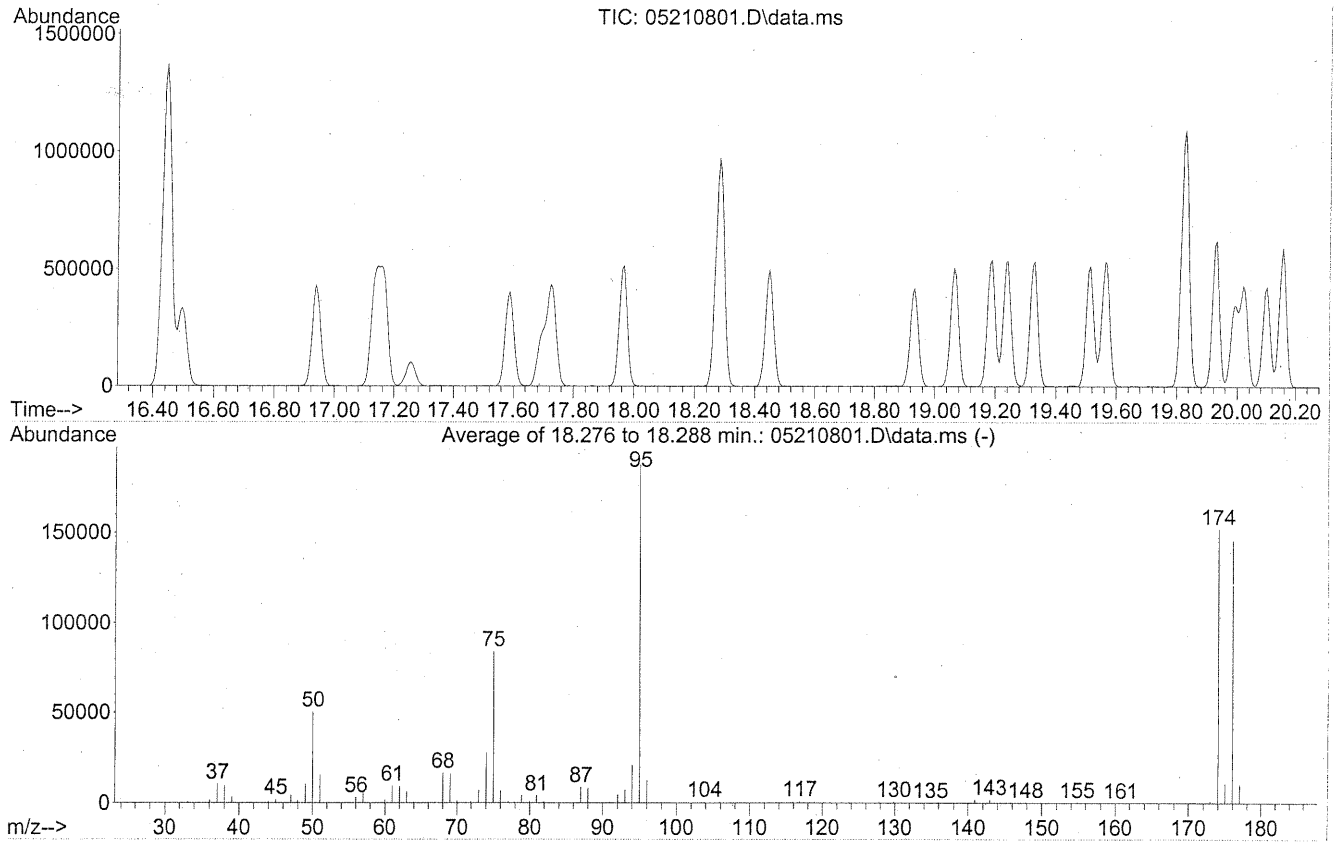
05/22/08

1205

Data Path : J:\MS16\DATA\2008_05\21\
Data File : 05210801.D
Acq On : 21 May 2008 7:03 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05020801
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 2008



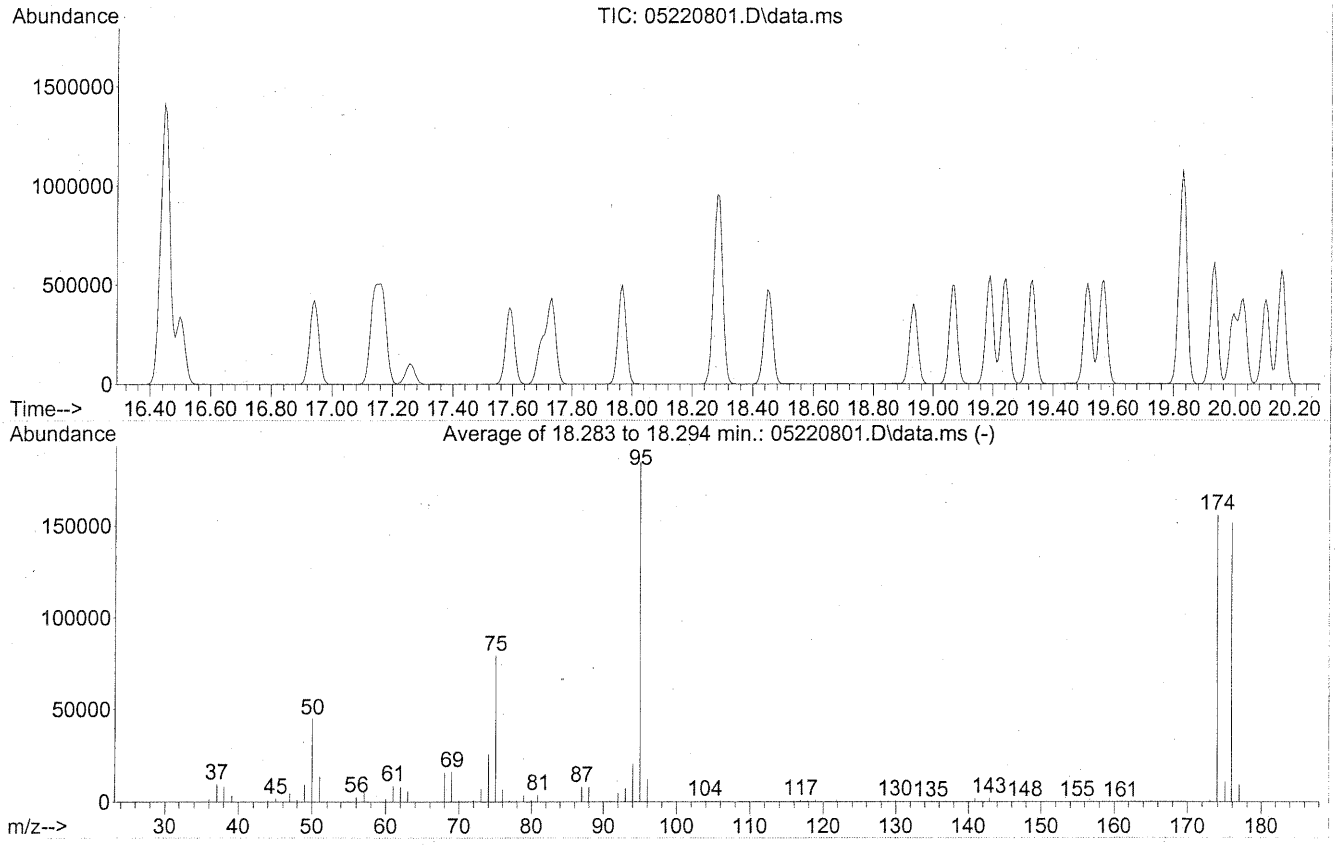
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.9	50493	PASS
75	95	30	66	44.9	84248	PASS
95	95	100	100	100.0	187776	PASS
96	95	5	9	6.6	12406	PASS
173	174	0.00	2	0.8	1290	PASS
174	95	50	120	81.2	152384	PASS
175	174	4	9	7.1	10768	PASS
176	174	93	101	95.9	146069	PASS
177	176	5	9	6.9	10132	PASS

Data Path : J:\MS16\DATA\2008_05\22\
Data File : 05220801.D
Acq On : 22 May 2008 6:45 am
Operator : WA
Sample : 5ng TO-15 CCV
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16051208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Mon May 12 20:47:38 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	24.4	44936	PASS
75	95	30	66	43.1	79501	PASS
95	95	100	100	100.0	184384	PASS
96	95	5	9	6.6	12187	PASS
173	174	0.00	2	0.8	1258	PASS
174	95	50	120	84.6	155989	PASS
175	174	4	9	7.0	10940	PASS
176	174	93	101	97.2	151552	PASS
177	176	5	9	6.3	9493	PASS

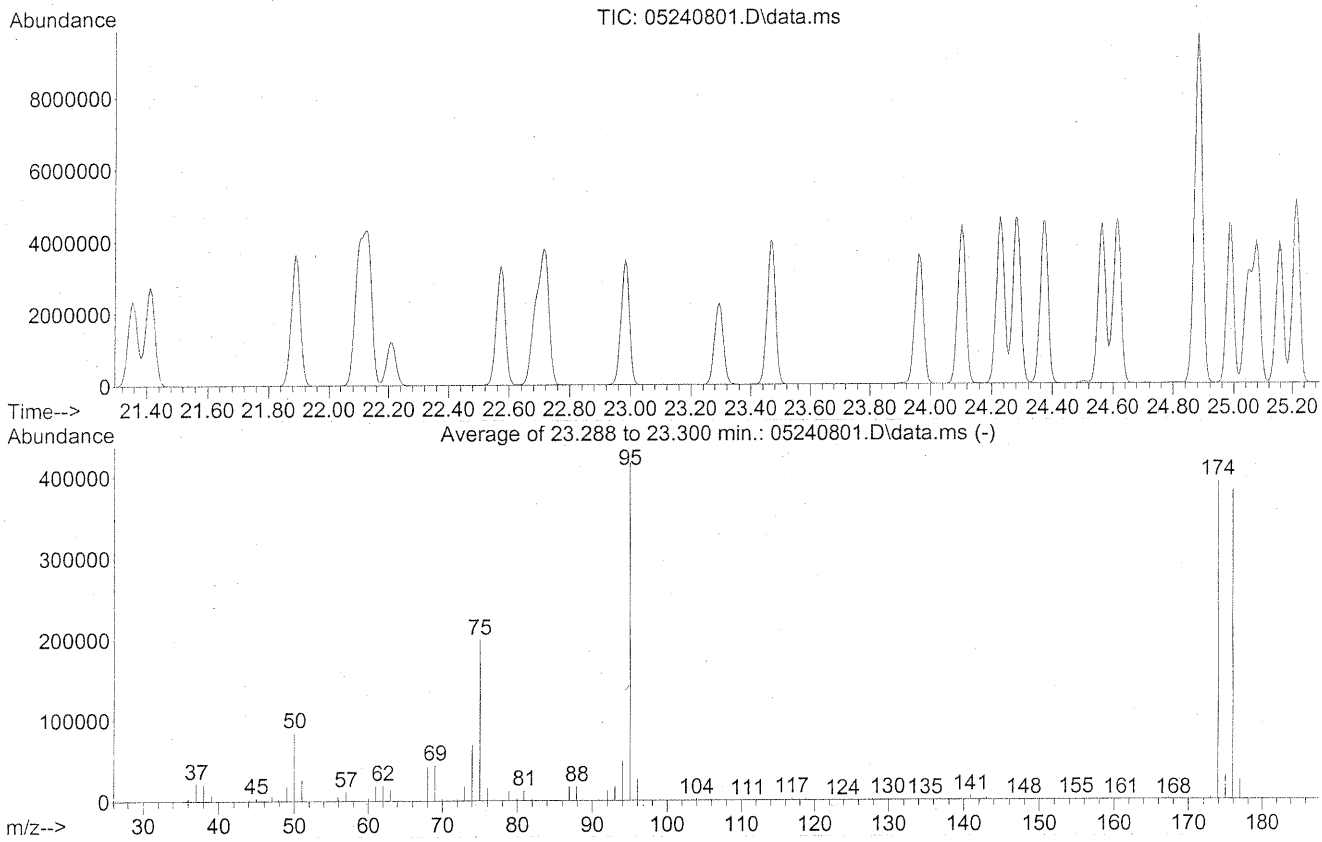
1207

5/22/08

Data Path : J:\MS13\DATA\2008_05\24\
Data File : 05240801.D
Acq On : 24 May 2008 6:59
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.5	85288	PASS
75	95	30	66	48.0	199915	PASS
95	95	100	100	100.0	416853	PASS
96	95	5	9	6.3	26181	PASS
173	174	0.00	2	1.1	4400	PASS
174	95	50	120	94.3	392939	PASS
175	174	4	9	7.4	29075	PASS
176	174	93	101	97.3	382443	PASS
177	176	5	9	6.4	24547	PASS

1208

 KDF 5/24/08

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
11	05/10/08 14:23	05100811.D	blank	S20-04290801	WA	1	
12	05/10/08 15:06	05100812.D	P0801346-001 (1000ml)	[redacted]	WA	3	
13	05/10/08 15:49	05100813.D	P0801346-002 (750ml)	[redacted]	WA	7	
14	05/10/08 16:32	05100814.D	P0801346-003 (1000ml)	[redacted]	WA	8	
15	05/10/08 17:15	05100815.D	P0801346-004 (1000ml)	[redacted]	WA	9	
16	05/10/08 17:58	05100816.D	P0801346-005 (1000ml)	[redacted]	WA	10	
17	05/10/08 18:36	05100817.D	P0801346-005 Dil (100ml)	[redacted]	WA	10	
18	05/10/08 19:19	05100818.D	P0801346-006 (1000ml)	[redacted]	WA	11	
19	05/10/08 20:02	05100819.D	P0801346-007 (1000ml)	[redacted]	WA	12	
20	05/10/08 20:40	05100820.D	lcsd	S20-04290801/S20-05050804	WA	2	
21	05/10/08 21:18	05100821.D	0.5ng RL Check	S20-04290801/S20-05020807	WA	14	Pass
22	05/10/08 21:56	05100822.D	0.5ng RL Check (TO-15/MTCN)	S20-04290801/S20-05020808/S20-04110801	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/12/08 6:33	05120801.D	Blank	S20-04290801	WA	1	
2	05/12/08 7:11	05120802.D	5ng TO-15 STD	S20-04290801/S20-05020807	WA	14	Pass, VA biased high
3	05/12/08 8:10	05120803.D	CAS CAN QC Batch# 1056A (1000ml)	AC01486	WA	5	Pass
4	05/12/08 8:53	05120804.D	CAS CAN QC (1000ml)	AC00511	WA	6	"
5	05/12/08 9:40	05120805.D	0.1ng TO-15 STD	S20-05020810	WA	15	
6	05/12/08 10:18	05120806.D	5ng STD Check	S20-05020804	WA	1	
7	05/12/08 11:09	05120807.D	xxxxxx	new IS/Surr S20-05120801	WA	16	
8	05/12/08 11:47	05120808.D	0.5ng std check	S20-05120801/S20-05020808	WA	1	
9	05/12/08 13:17	05120809.D	0.5ng std check	S20-05120801/S20-05020807	WA	14	
10	05/12/08 14:19	05120810.D	0.5ng std check	S20-05120801/S20-05020807 after rpicd. glassw	WA	14	
11	05/12/08 14:56	05120811.D	0.5ng std check	S20-05120801/S20-05020807 after rpicd. glassw	WA	14	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/12/08 15:44	05120801.D	25ng BFB STD	S20-05120801	WA	1	Pass
2	05/12/08 16:21	05120802.D	0.1ng TO-15 ICAL STD	S20-05120801/S20-05020810	WA	15	Saved as R160512O8.M
3	05/12/08 16:59	05120803.D	0.5ng TO-15 ICAL STD	S20-05120801/S20-05020808	WA	B	Cal. Ranges 0.1ng-100ng
4	05/12/08 17:37	05120804.D	1.0ng TO-15 ICAL STD	S20-05120801/S20-05020808	WA	B	Except: EtOH, ACN, Acrolein,
5	05/12/08 18:17	05120805.D	5.0ng TO-15 ICAL STD	S20-05120801/S20-05020808	WA	B	IPA, VA, EA, Acetone, Me-
6	05/12/08 18:55	05120806.D	25ng TO-15 ICAL STD	S20-05120801/S20-05020804	WA	C	Methacrylate 0.5ng-100ng
7	05/12/08 19:34	05120807.D	50ng TO-15 ICAL STD	S20-05120801/S20-05020804	WA	C	
8	05/12/08 20:12	05120808.D	100ng TO-15 ICAL STD	S20-05120801/S20-05020804	WA	C	
9	05/12/08 20:50	05120809.D	25ng TO-15 ICV STD	S20-05120801/S20-05050804	WA	2	Pass all Cmpds
10	05/12/08 22:09	05120810.D	Blank	S20-05120801	WA	1	
11	05/12/08 22:47	05120811.D	5.0ng check	S20-05120801/S20-05020807	WA	14	
12	05/12/08 23:25	05120812.D	25ng TO-15 CCV STD	S20-05120801/S20-05020804	WA	1	
13	05/13/08 0:03	05120813.D	0.5ng RL Check	S20-05120801/S20-05020810	WA	15	
14	05/13/08 0:58	05120814.D	TO-15 Method Blank (1000ml)	S20-05120801	WA	1	
15	05/13/08 1:36	05120815.D	25ng TO-15 LCS STD	S20-05120801/S20-05050804	WA	2	
16	05/13/08 2:14	05120816.D	25ng TO-15 LCSD STD	S20-05120801/S20-05050804	WA	2	

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
15	05/21/08 8:29	05200815.D	S20-04250805 (125mL)	Test	13	RB	
16	05/21/08 9:10	05200816.D	S20-05020806 (125mL)	Test	15	RB	
17	05/21/08 9:50	05200817.D	S20-04250804 (250mL)	Test	14	RB	
18	05/21/08 15:19	05200818.D	S20-05210804 (125mL)	Test	C	RB	
19	05/21/08 16:03	05200819.D	S20-05210806 (250mL)	Test	B	RB	
20	05/21/08 16:59	05200820.D	S20-05210809 (25mL)	Test	15	RB	
21	05/21/08 21:15	05200821.D	Blank (100mL)	Test	4	RB	
22	05/21/08 22:00	05200822.D	Blank (100mL)	Test	4	RB	
23	05/22/08 2:38	05200823.D	Blank (100mL)	Test	4	RB	

3-CP (b. high)

1	05/22/08 3:15	05220801.D	BFB Tune Standard (200mL)	S20-04300802	4	RB	
2	05/22/08 3:56	05220802.D	0.1ng TO-15 ICAL Standard	S20-04300802/S20-05210809	15	RB	
3	05/22/08 4:37	05220803.D	0.5ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	
4	05/22/08 5:18	05220804.D	1ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	ICAL: good for everything
5	05/22/08 5:58	05220805.D	5ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	
6	05/22/08 6:39	05220806.D	25ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
7	05/22/08 7:20	05220807.D	50ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
8	05/22/08 8:01	05220808.D	100ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
9	05/22/08 8:41	05220809.D	25ng TO-15 ICV Standard	S20-04300802/S20-04290803	16	RB	– Passed
10	05/22/08 12:13	05220810.D	TO-15 Method Blank (1.0L)	S20-04300802	4	RB	– Passed
11	05/22/08 13:41	05220811.D	P0801459-004 (1000mL)	[redacted](-3.5, 1.0)	1	RB	
12	05/22/08 14:23	05220812.D	P0801459-006 (1000mL)	[redacted](-3.6, 1.0)	2	RB	
13	05/22/08 15:05	05220813.D	P0801459-008 (1000mL)	[redacted](-3.7, 1.0)	3	RB	
14	05/22/08 15:46	05220814.D	P0801459-010 (1000mL)	[redacted](-4.5, 1.2)	5	RB	
15	05/22/08 16:29	05220815.D	P0801459-023 (100mL)	[redacted](-3.1, 1.1)	6	RB	
16	05/22/08 17:19	05220816.D	P0801459-023 DUP (100mL)	[redacted](-3.1, 1.1)	6	RB	– Passed
17	05/22/08 20:00	05220817.D	P0801459-011 (1000mL)	[redacted](-2.7, 1.2)	7	RB	
18	05/22/08 20:40	05220818.D	P0801459-012 (400mL)	[redacted]-2.7, 10.0)	8	RB	
19	05/22/08 21:23	05220819.D	P0801459-013 (1000mL)	[redacted]-2.7, 3.1)	9	RB	
20	05/22/08 22:04	05220820.D	P0801459-014 (1000mL)	[redacted](-4.1, 1.0)	10	RB	
21	05/22/08 22:46	05220821.D	P0801459-015 (1000mL)	[redacted]-3.4, 1.0)	11	RB	
22	05/22/08 23:29	05220822.D	P0801459-016 (1000mL)	[redacted](-3.5, 1.4)	12	RB	
23	05/23/08 0:12	05220823.D	P0801459-017 (1000mL)	[redacted](-3.2, 1.0)	13	RB	
24	05/23/08 0:54	05220824.D	P0801459-018 (1000mL)	[redacted](-3.2, 1.0)	14	RB	
25	05/23/08 1:35	05220825.D	P0801459-019 (400mL)	[redacted](-2.7, 10.1)	15	RB	
26	05/23/08 2:16	05220826.D	P0801459-004 DIL (50mL)	[redacted](-3.5, 1.0)	1	RB	
27	05/23/08 3:01	05220827.D	Blank (100mL)	Test	4	RB	
28	05/23/08 7:08	05220828.D	Blank (100mL)	Test	4	RB	
29	05/23/08 7:45	05220829.D	S20-05210806 (250mL)	Test	B	RB	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/20/08 5:07	05200801.D	5ng TO-15 CCV	S20-05120801/S20-05020808	WA	1	Pass
2	05/20/08 6:28	05200802.D	.5ng RL Check.	S20-05120801/S20-05020808	WA	1	
3	05/20/08 7:14	05200803.D	TO-15 Method Blank (1000ml)	S20-05120801	WA	1	Pass
4	05/20/08 7:51	05200804.D	25ng TO-15 LCS	S20-05120801/S20-05050806	WA	2	Pass
5	05/20/08 8:29	05200805.D	25ng TO-15 LCSD	S20-05120801/S20-05050806	WA	2	Pass
6	05/20/08 9:26	05200806.D	P0801390-009 (500ml)	[redacted]	WA	3	
7	05/20/08 10:04	05200807.D	P0801390-011 (500ml)	[redacted]	WA	5	
8	05/20/08 10:41	05200808.D	P0801390-012 (500ml)	[redacted]	WA	6	
9	05/20/08 11:19	05200809.D	P0801390-014 Dil (100ml)	[redacted]	WA	7	
10	05/20/08 12:02	05200810.D	P0801390-018 (1000ml)	[redacted]	WA	8	
11	05/20/08 12:45	05200811.D	P0801390-019 (1000ml)	[redacted]	WA	9	
12	05/20/08 13:30	05200812.D	P0801390-020 (1000ml)	[redacted]	WA	10	
13	05/20/08 14:07	05200813.D	P0801390-012 (250ml)	[redacted]	WA	6	
14	05/20/08 15:02	05200814.D	Blank		WA	1	
15	05/20/08 15:45	05200815.D	P0801478-001 (1000ml)	[redacted]	WA	15	
16	05/20/08 16:28	05200816.D	P0801478-001 Dup (1000ml)	[redacted]	WA	15	Pass
17	05/20/08 17:11	05200817.D	P0801478-002 (1000ml)	[redacted]	WA	16	
18	05/20/08 17:54	05200818.D	P0801478-003 (1000ml)	[redacted]	WA	3	
19	05/20/08 18:37	05200819.D	P0801478-004 (1000ml)	[redacted]	WA	4	
20	05/20/08 19:20	05200820.D	P0801478-005 (1000ml)	[redacted]	WA	5	
21	05/20/08 20:03	05200821.D	P0801390-021 (1000ml)	[redacted]	WA	11	
22	05/20/08 20:46	05200822.D	P0801390-022 (1000ml)	[redacted]	WA	12	
23	05/20/08 21:29	05200823.D	P0801390-023 (1000ml)	[redacted]	WA	13	
24	05/20/08 22:13	05200824.D	P0801390-024 (1000ml)	[redacted]	WA	14	
25	05/20/08 22:50	05200825.D	P0801390-012 (100ml)	[redacted]	WA	15	
26	05/20/08 23:28	05200826.D	P0801390-012 (200ml)	[redacted]	WA	16	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/21/08 7:03	05210801.D	5ng TO-15 CCV	S20-05120801/S20-05020801	WA	1	Pass
2	05/21/08 7:41	05210802.D	.1ng RL Check.	S20-05120801/S20-05020810	WA	1	
3	05/21/08 9:11	05210803.D	CAS QC CAN/FC (1000ml)	AC01356/FC00553	WA	3	Pass
4	05/21/08 9:54	05210804.D	CAS QC CAN/FC (1000ml)	AC01476/FC00564	WA	4	Pass
5	05/21/08 10:37	05210805.D	CAS CAN QC2 5/20/08 (1000ml)	SC00699	WA	5	Pass
6	05/21/08 11:14	05210806.D	25ng TO-15 LCS STD	S20-05120801/S20-05050806	WA	2	
7	05/21/08 12:04	05210807.D	P0801442-008 (4.0ml)	ENSR SG70B-05 (-3.3, 3.5)	WA	1	case file
8	05/21/08 12:42	05210808.D	P0801442-008 (1.2ml)	ENSR SG70B-05 (-3.3, 3.5)	WA	1	
9	05/21/08 13:25	05210809.D	CAS QC CAN/FC (1000ml)	AC01222/FC00683	WA	3	Pass
10	05/21/08 14:08	05210810.D	CAS CAN QC Batch# 1133 (1000ml)	SC00795	WA	4	Pass
11	05/21/08 14:45	05210811.D	P0801442-009 (1.0ml)	ENSR SG71B-05 (-3.4, 3.5)	WA	1	
12	05/21/08 15:23	05210812.D	P0801442-008 Dup (1.2ml)	ENSR SG70B-05 (-3.3, 3.5)	WA	1	Pass
13	05/21/08 16:17	05210813.D	P0801442-003 (20ml)	ENSR SG39B-20 (-3.5, 3.6)	WA	7	
14	05/21/08 16:55	05210814.D	P0801442-004 (25ml)	ENSR SG36B-20 (-3.0, 3.5)	WA	8	

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	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
15	05/21/08 17:43	05210815.D	P0801442-001 (500ml)	ENSR SG73B-05 (-3.4, 3.6)	WA	5	
16	05/21/08 18:21	05210816.D	P0801442-002 (150ml)	ENSR SG39B-05 (-3.5, 3.6)	WA	6	Pass
17	05/21/08 18:58	05210817.D	P0801442-005 (70ml)	ENSR SG44B-05 (-3.3, 3.8)	WA	3	
18	05/21/08 19:44	05210818.D	P0801442-006 (250ml)	ENSR SG88B-05 (-3.7, 3.7)	WA	4	
19	05/21/08 20:22	05210819.D	P0801442-003 (500ml)	ENSR SG39B-20 (-3.5, 3.6)	WA	7	
20	05/21/08 21:00	05210820.D	S20-05210802 check	25ml	WA	1	
21	05/21/08 21:51	05210821.D	CAS QC CAN/FC (1000ml)	AC00934/FC00649	WA	9	Pass
22	05/21/08 22:34	05210822.D	CAS QC CAN/FC (1000ml)	AC01338/FC00536	WA	10	Pass
23	05/21/08 23:17	05210823.D	CAS QC CAN/FC (1000ml)	AC01472/FC00306	WA	11	Pass
24	05/22/08 0:01	05210824.D	CAS QC CAN/FC (1000ml)	AC01196/FC00614	WA	12	Pass
25	05/22/08 0:44	05210825.D	CAS QC CAN/FC (1000ml)	AC00970/FC00583	WA	13	Pass
26	05/22/08 1:27	05210826.D	CAS QC CAN/FC (1000ml)	AC01396/FC00421	WA	14	Pass
27	05/22/08 2:10	05210827.D	CAS QC CAN/FC (1000ml)	AC00282/FC00343	WA	15	Pass
28	05/22/08 2:53	05210828.D	CAS QC CAN/FC (1000ml)	AC01251/FC00670	WA	16	Pass
29	05/22/08 3:36	05210829.D	CAS QC CAN/FC (1000ml)	AC00934/FC00649	WA	9	Pass
30	05/22/08 4:14	05210830.D	P0801442-001 (100ml)	ENSR SG73B-05 (-3.4, 3.6)	WA	5	
31	05/22/08 4:51	05210831.D	P0801442-002 (450ml)	ENSR SG39B-05 (-3.5, 3.6)	WA	6	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/22/08 6:45	05220801.D	5ng TO-15 CCV	S20-05120801/S20-05210802	WA	1	Pass, except Allyl Chloride, HCBD
2	05/22/08 7:25	05220802.D	.5ng RL Check.	S20-05120801/S20-05020810	WA	1	
3	05/22/08 8:28	05220803.D	TO-15 Method Blank (1000ml)	S20-05120801	WA	16	Pass
4	05/22/08 9:20	05220804.D	25ng TO-15 LCS STD	S20-05120801/S20-05050806	WA	2	Pass, except Allyl Cl & TAME
5	05/22/08 9:58	05220805.D	P0801442-004 Dil (5.0ml)	ENSR SG36B-20 (-3.0, 3.5)	WA	1	wrong sample
6	05/22/08 10:35	05220806.D	P0801442-005 (500ml)	ENSR SG44B-05 (-3.3, 3.8)	WA	3	
7	05/22/08 11:25	05220807.D	P0801442-004 Dil (5.0ml)	ENSR SG36B-20 (-3.0, 3.5)	WA	1	
8	05/22/08 12:08	05220808.D	P0801517-001 (100ml)	[redacted]	WA	9	
9	05/22/08 12:46	05220809.D	P0801517-002 (100ml)	[redacted]	WA	10	
10	05/22/08 13:24	05220810.D	P0801517-001 Dup (100ml)	[redacted]	WA	9	Pass
11	05/22/08 14:08	05220811.D	P0801442-002 (300ml)	ENSR SG39B-20 (-3.5, 3.6)	WA	6	
12	05/22/08 15:11	05220812.D	P0801517-003 (100ml)	[redacted]	WA	9	
13	05/22/08 15:59	05220813.D	P0801442-017 (1.0ml)	ENSR SG89B-05 (-3.2, 3.5)	WA	1	
14	05/22/08 17:16	05220814.D	STD Check 0.1ng	[redacted]	WA	16	
15	05/22/08 17:55	05220815.D	P0801442-007 (250ml)	ENSR SG72B-05 (-3.2, 3.5)	WA	3	
16	05/22/08 18:33	05220816.D	P0801442-010 (500ml)	ENSR SG65B-05 (-2.3, 3.5)	WA	4	
17	05/22/08 19:10	05220817.D	P0801442-011 (500ml)	ENSR SG65B-05D (-2.2, 3.5)	WA	8	Case file, IS - failed
18	05/22/08 19:48	05220818.D	P0801442-012 (40ml)	ENSR SG84B-05 (-2.8, 3.5)	WA	9	
19	05/22/08 20:36	05220819.D	P0801442-013 (500ml)	ENSR SG85B-05 (-3.0, 3.5)	WA	10	Case file. IS failed
20	05/22/08 21:14	05220820.D	P0801442-014 (40ml)	ENSR SG35B-05 (-3.3, 3.5)	WA	11	
21	05/22/08 22:03	05220821.D	P0801442-015 (500ml)	ENSR SG94B-05 (-4.9, 3.5)	WA	12	
22	05/22/08 22:41	05220822.D	P0801442-016 (100ml)	ENSR SG95B-05 (-3.0, 3.5)	WA	13	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
23	05/22/08 23:18	05220823.D	P0801442-017 (15ml)	ENSR SG89B-05 (-3.2, 3.5)	WA	14	
24	05/23/08 0:06	05220824.D	P0801442-011 (500ml)	ENSR SG65B-05D (-2.2, 3.5)	WA	8	
25	05/23/08 0:44	05220825.D	blank		WA	1	
26	05/23/08 1:21	05220826.D	P0801442-013 (200ml)	ENSR SG85B-05 (-3.0, 3.5)	WA	10	
27	05/23/08 1:59	05220827.D	blank		WA	1	
28	05/23/08 2:37	05220828.D	MTCN std check	2.5ng	WA	18	

chloride, HCSD

cl & TAME

hcl

cl

90

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
8	05/23/08 13:32	05230808.D	P0801459-009 (1000mL)	[redacted]	6	RB	
9	05/23/08 14:15	05230809.D	P0801459-020 (1000mL)		1	RB	
10	05/23/08 14:58	05230810.D	P0801459-021 (1000mL)		8	RB	
11	05/23/08 15:39	05230811.D	P0801459-022 (1000mL)		9	RB	
12	05/23/08 16:24	05230812.D	P0801483-001 (100mL)		11	RB	
13	05/23/08 17:31	05230813.D	P0801483-002 (50mL)		12	RB	
14	05/23/08 18:19	05230814.D	P0801483-002 DUP (50mL)		12	RB	
15	05/23/08 19:37	05230815.D	P0801459-011 DIL (100mL)		7	RB	
16	05/23/08 20:18	05230816.D	P0801459-014 DIL (100mL)		10	RB	
17	05/23/08 20:59	05230817.D	P0801459-017 DIL (100mL)		13	RB	
18	05/23/08 21:39	05230818.D	P0801459-018 DIL (50mL)		14	RB	
19	05/23/08 22:20	05230819.D	P0801459-022 DIL (75mL)		9	RB	
20	05/23/08 23:00	05230820.D	P0801483-003 (100mL)		15	RB	
21	05/23/08 23:43	05230821.D	P0801483-004 (1000mL)		1	RB	
22	05/24/08 0:24	05230822.D	P0801483-005 (75mL)		2	RB	
23	05/24/08 1:05	05230823.D	P0801483-006 (75mL)		3	RB	
24	05/24/08 1:45	05230824.D	Screen/Test	1483-007 (25mL)	5	RB	
25	05/24/08 2:26	05230825.D	Screen/Test	1483-008 (25mL)	6	RB	
26	05/24/08 3:07	05230826.D	Screen/Test	1483-009 (25mL)	8	RB	
27	05/24/08 3:52	05230827.D	Blank (100mL)	Test	4	RB	
28	05/24/08 5:38	05230828.D	Blank (100mL)	Test	4	RB	
29	05/24/08 6:18	05230829.D	S20-05210806 (25mL)	Test	8	RB	

1	05/24/08 6:59	05240801.D	25ng TO-15 CCV Standard	S20-05160801/S20-05210804	C	RB	
2	05/24/08 7:42	05240802.D	TO-15 Method Blank (1.0L)	S20-05160801	4	RB	
3	05/24/08 8:23	05240803.D	25ng TO-15 LCS	S20-05160801/S20-04290803	16	RB	
4	05/24/08 9:04	05240804.D	P0801442-008 (5.0ml)	ENSR SG70B-05 (-3.3, 3.5)	4	WA	
5	05/24/08 9:45	05240805.D	P0801442-009 (5.0ml)	ENSR SG71B-05 (-3.4, 3.5)	4	WA	
6	05/24/08 10:31	05240806.D	P0801442-004 (50ml)	ENSR SG36B-20 (-3.0, 3.5)	5	WA	
7	05/24/08 11:13	05240807.D	P0801442-017 (5.0ml)	ENSR SG89B-05 (-3.2, 3.5)	4	WA	
8	05/24/08 12:35	05240809.D	P0801442-014 (40ml)	ENSR SG35B-05 (-3.3, 3.5)	4	WA	
9	05/24/08 13:15	05240810.D	P0801442-014 Dup (40ml)	ENSR SG35B-05 (-3.3, 3.5)	6	WA	
10	05/24/08 13:56	05240811.D	P0801442-001 (500ml)	ENSR SG73B-05 (-3.4, 3.6)	7	WA	
11	05/24/08 14:37	05240812.D	P0801442-002 (500ml)	ENSR SG39B-05 (-3.5, 3.6)	8	WA	
12	05/24/08 15:17	05240813.D	P0801442-003 (500ml)	ENSR SG37B-20 (-3.1, 3.6)	9	WA	
13	05/24/08 16:00	05240814.D	P0801442-005 (1000ml)	ENSR SG44B-05 (-3.3, 3.8)	10	WA	
14	05/24/08 16:42	05240815.D	P0801442-006 (1000ml)	ENSR SG88B-05 (-3.7, 3.7)	11	WA	
15	05/24/08 17:25	05240816.D	P0801442-007 (1000ml)	ENSR SG72B-05 (-3.2, 3.5)	12	WA	
16	05/24/08 18:08	05240817.D	P0801442-010 (1000ml)	ENSR SG65B-05 (-2.3, 3.5)	13	WA	
17	05/24/08 18:50	05240818.D	P0801442-011 (1000ml)	ENSR SG65B-05D (-2.2, 3.5)	14	WA	
18	05/24/08 19:31	05240819.D	P0801442-012 (200ml)	ENSR SG84B-05 (-2.8, 3.5)	15	WA	
19	05/24/08 20:14	05240820.D	P0801442-013 (1000ml)	ENSR SG85B-05 (-3.0, 3.5)	16	WA	
20	05/24/08 20:54	05240821.D	P0801442-015 (500ml)	ENSR SG94B-05 (-4.9, 3.5)	1	WA	
21	05/24/08 21:35	05240822.D	P0801442-016 (400ml)	ENSR SG95B-05 (-3.0, 3.5)	2	WA	
22	05/24/08 22:16	05240823.D	P0801442-018 (75ml)	ENSR SG75B-05 (-3.6, 3.5)	3	WA	
23	05/24/08 22:56	05240824.D	0.5ng RL check		20	WA	
24	05/26/08 8:46	05240825.D	S20-05210806 (250mL)	Test	4	WA	

	DATE/TIME
1	05/26/08 9:27
2	05/26/08 10:0
3	05/26/08 10:5
4	05/26/08 11:3
5	05/26/08 12:1
6	05/26/08 14:3
7	05/26/08 15:4
8	05/26/08 16:3
9	05/26/08 17:14
10	05/26/08 17:55
11	05/26/08 18:36
12	05/26/08 19:17
13	05/26/08 19:58
14	05/26/08 20:38
15	05/26/08 21:19
16	05/26/08 22:00
17	05/26/08 22:41
18	05/26/08 23:22
19	05/27/08 0:03
20	05/27/08 0:44
21	05/27/08 1:25
22	05/27/08 2:06
23	05/27/08 2:47
24	05/27/08 3:27
25	05/27/08 4:08
26	05/27/08 6:39

1	05/27/08 7:30
2	05/27/08 8:11
3	05/27/08 9:41
4	05/27/08 10:57
5	05/27/08 11:38
6	05/27/08 12:59
7	05/27/08 13:40
8	05/27/08 14:21
9	05/27/08 15:02
10	05/27/08 15:43
11	05/27/08 16:33
12	05/27/08 17:14
13	05/27/08 18:13
14	05/27/08 18:54
15	05/27/08 19:35
16	05/27/08 20:17
17	05/27/08 20:58
18	05/27/08 21:41
19	05/27/08 22:24

1215