New Jersey
ACCUTEST LABORATORIES

03/15/13

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06 Area E ICM

Accutest Job Number: JB29314

Sampling Dates: 02/19/13 - 02/20/13

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **403**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Anderson, Mulholland & Associates

Job No: JB29314

BMSMC, Building 5 Area, PR
Project No: SM04.00.06 Area E ICM

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB29314-1	02/19/13	16:10	TT	02/21/13	SO	Soil	AREAEC7_BOT
JB29314-2	02/20/13	13:00	TT	02/21/13	SO	Soil	AREAEC8_7FT
JB29314-3	02/20/13	13:45	TT	02/21/13	SO	Soil	AREAEC8_BOT
JB29314-4	02/20/13	13:45	TT	02/21/13	SO	Soil	AREAEC8_BOTD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JB29314
Site:	BMSMC, Building 5 Area, PR	**Report Date**	3/8/2013 3:58:58 PM

On 02/21/2013, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB29314 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VD8399

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28910-2MS, JB28910-2MSD were used as the QC samples indicated.
- JB29314-1: Diluted due to high concentration of target compound.

Matrix: SO **Batch ID:** VD8401

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29173-8MS, JB29173-8MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VI7353

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29330-1MS, JB29330-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VO5887

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29267-11MS, JB29216-1DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Acetone are outside control limits. High RPD due to low concentration of hit

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN80464

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB29314
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 02/19/13 thru 02/20/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB29314-1	**AREAEC7_BOT**					
Ethylbenzene [a]		1200	86	23	ug/kg	SW846 8260B
Xylene (total) [a]		4500	86	12	ug/kg	SW846 8260B
JB29314-2	**AREAEC8_7FT**					
Ethylbenzene		17600	650	170	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		2150	330	49	ug/kg	SW846 8260B
Toluene		21.5 J	65	6.9	ug/kg	SW846 8260B
Xylene (total)		55700	650	91	ug/kg	SW846 8260B
JB29314-3	**AREAEC8_BOT**					
Acetone		71.8	19	3.2	ug/kg	SW846 8260B
Benzene		1.1 J	1.9	0.22	ug/kg	SW846 8260B
Ethylbenzene		0.59 J	1.9	0.49	ug/kg	SW846 8260B
Xylene (total)		34.5	1.9	0.26	ug/kg	SW846 8260B
JB29314-4	**AREAEC8_BOTD**					
Acetone		118	20	3.3	ug/kg	SW846 8260B
Benzene		0.96 J	2.0	0.23	ug/kg	SW846 8260B
Xylene (total)		34.0	2.0	0.27	ug/kg	SW846 8260B

(a) Diluted due to high concentration of target compound.

New Jersey

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Sample Results

Report of Analysis

Accutest LabLink@718861 13:55 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC7_BOT		
Lab Sample ID:	JB29314-1	**Date Sampled:**	02/19/13
Matrix:	SO - Soil	**Date Received:**	02/21/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	72.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	D205895.D	1	02/26/13	ET	02/21/13 11:00	n/a	VD8399
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	860	150	ug/kg	
71-43-2	Benzene	ND	86	10	ug/kg	
100-41-4	Ethylbenzene	1200	86	23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	430	65	ug/kg	
108-88-3	Toluene	ND	86	9.1	ug/kg	
1330-20-7	Xylene (total)	4500	86	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
17060-07-0	1,2-Dichloroethane-D4	98%		70-122%
2037-26-5	Toluene-D8	97%		81-127%
460-00-4	4-Bromofluorobenzene	96%		66-132%

(a) Diluted due to high concentration of target compound.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@718861 13:55 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC8_7FT		
Lab Sample ID:	JB29314-2	**Date Sampled:**	02/20/13
Matrix:	SO - Soil	**Date Received:**	02/21/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	90.5
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D205945.D	1	02/27/13	ET	02/21/13 11:00	n/a	VD8401
Run #2	D205896.D	1	02/26/13	ET	02/21/13 11:00	n/a	VD8399

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.6 g	5.0 ml	100 ul
Run #2	4.6 g	5.0 ml	10.0 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	650	110	ug/kg	
71-43-2	Benzene	ND	65	7.8	ug/kg	
100-41-4	Ethylbenzene	17600 [a]	650	170	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	2150	330	49	ug/kg	
108-88-3	Toluene	21.5	65	6.9	ug/kg	J
1330-20-7	Xylene (total)	55700 [a]	650	91	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	70-122%
2037-26-5	Toluene-D8	100%	101%	81-127%
460-00-4	4-Bromofluorobenzene	95%	98%	66-132%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@718861 13:55 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC8_BOT		
Lab Sample ID:	JB29314-3	**Date Sampled:**	02/20/13
Matrix:	SO - Soil	**Date Received:**	02/21/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	59.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O133469.D	1	02/26/13	DPP	02/21/13 11:00	n/a	VO5887
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	71.8	19	3.2	ug/kg	
71-43-2	Benzene	1.1	1.9	0.22	ug/kg	J
100-41-4	Ethylbenzene	0.59	1.9	0.49	ug/kg	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	9.4	1.4	ug/kg	
108-88-3	Toluene	ND	1.9	0.20	ug/kg	
1330-20-7	Xylene (total)	34.5	1.9	0.26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	107%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	100%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@718861 13:55 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC8_BOTD		
Lab Sample ID:	JB29314-4	**Date Sampled:**	02/20/13
Matrix:	SO - Soil	**Date Received:**	02/21/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	57.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I182045.D	1	03/06/13	SJM	02/21/13 11:00	n/a	VI7353
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	118	20	3.3	ug/kg	
71-43-2	Benzene	0.96	2.0	0.23	ug/kg	J
100-41-4	Ethylbenzene	ND	2.0	0.52	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	9.9	1.5	ug/kg	
108-88-3	Toluene	ND	2.0	0.21	ug/kg	
1330-20-7	Xylene (total)	34.0	2.0	0.27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	110%		66-132%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 794795753513
Bottle Order Control #
Accutest Quote #
Accutest Job # JB29314

Client / Reporting Information

Company Name: AMAI
Address: 110 Corporate Park Drive
City: White Plains State: NY Zip: 10604
Project Contact: T. Taylor E-mail: ttaylor@amaiconsult.com
Phone #
Sampler's Name

Project Information

Project Name: Area E ICM
Street
City State
Project #
Fax #
Client Purchase Order #

Requested Analysis

8260 ☐ BTEX ☐ MTBE ☐ 624 ☐ 8021 ☐ TBA ☐ 602 ☐ NAP ☐ PAHS ☐ PAUS ☐
8260 ☐ TBA ☐ NAP ☐ +10 ☐ 624 ☐ TCL ☐ PPL ☐ STARS ☐ MTBE ☐ +15 ☐
8270 ☐ ABN ☐ BN ☐ 625 ☐ TCL ☐ PPL ☐ STARS ☐ PAH1 ☐ PAOF ☐ +10S ☐
Bldg 5 Special List

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE										LAB USE ONLY
-1	AREAEC7_BOT		2/19/13	1610		SO	4												X						M33T1
-2	AREAEC8_7FT		2/20/13	1300		SO	4												X						1Q23
3	AREAEC8_BOT		2/20/13	1345		SO	4												X						4905
-4	AREAEC8_BOTD		2/20/13	1345		SO	4												X						

Turnaround Time (Business Days)

- ☒ Std. 15 Business Days
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*
- ☐ Other

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☒ Other Full T1
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

☒ 3 Encores TAS 2/21/13

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received by	Relinquished by	Date Time	Received by
1	2/20/13 1500	Fed Ex	2 Fed Ex	2/21/13 0930	2
3		3	4		4
5		5			

Custody Seal # 708 Preserved where applicable ☐ On Ice ☒ Cooler Temp. 3.0°C

rec'd intact TAS 2/21/13

JB29314: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB29314 **Client:** **Project:**

Date / Time Received: 2/21/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); 0

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB29314: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JB29314

BMSMC, Building 5 Area, PR
Project No: SM04.00.06 Area E ICM

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB29314-1 Collected: 19-FEB-13 16:10 By: TT Received: 21-FEB-13 By: RL AREAEC7_BOT						
JB29314-1	SM2540 G-97	26-FEB-13 15:15	BM			%SOL
JB29314-1	SW846 8260B	26-FEB-13 19:16	ET			V8260SL3
JB29314-2 Collected: 20-FEB-13 13:00 By: TT Received: 21-FEB-13 By: RL AREAEC8_7FT						
JB29314-2	SM2540 G-97	26-FEB-13 15:15	BM			%SOL
JB29314-2	SW846 8260B	26-FEB-13 19:45	ET			V8260SL3
JB29314-2	SW846 8260B	27-FEB-13 21:14	ET			V8260SL3
JB29314-3 Collected: 20-FEB-13 13:45 By: TT Received: 21-FEB-13 By: RL AREAEC8_BOT						
JB29314-3	SW846 8260B	26-FEB-13 04:21	DPP			V8260SL3
JB29314-3	SM2540 G-97	26-FEB-13 15:15	BM			%SOL
JB29314-4 Collected: 20-FEB-13 13:45 By: TT Received: 21-FEB-13 By: RL AREAEC8_BOTD						
JB29314-4	SM2540 G-97	26-FEB-13 15:15	BM			%SOL
JB29314-4	SW846 8260B	06-MAR-13 16:13	SJM			V8260SL3

Accutest Internal Chain of Custody

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/21/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB29314-1.1	Secured Storage	Adam Scott	02/26/13 13:50	Retrieve from Storage
JB29314-1.1	Adam Scott	Secured Staging Area	02/26/13 13:51	Return to Storage
JB29314-1.1	Secured Staging Area	Beatrice Marcelino	02/26/13 14:31	Retrieve from Storage
JB29314-1.1	Beatrice Marcelino	Secured Storage	02/26/13 16:01	Return to Storage
JB29314-1.3	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-1.3	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-1.3	Secured Storage	Emily Tran	02/26/13 10:13	Retrieve from Storage
JB29314-1.3	Emily Tran	Secured Storage	02/26/13 15:58	Return to Storage
JB29314-1.4	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-1.4	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-1.5	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-1.5	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-2.1	Secured Storage	Adam Scott	02/26/13 13:50	Retrieve from Storage
JB29314-2.1	Adam Scott	Secured Staging Area	02/26/13 13:51	Return to Storage
JB29314-2.1	Secured Staging Area	Beatrice Marcelino	02/26/13 14:31	Retrieve from Storage
JB29314-2.1	Beatrice Marcelino	Secured Storage	02/26/13 16:01	Return to Storage
JB29314-2.3	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-2.3	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-2.3	Secured Storage	Emily Tran	02/26/13 10:13	Retrieve from Storage
JB29314-2.3	Emily Tran	Secured Storage	02/26/13 15:58	Return to Storage
JB29314-2.3	Secured Storage	Ying Li	02/27/13 13:34	Retrieve from Storage
JB29314-2.3	Ying Li	Secured Storage	02/27/13 17:24	Return to Storage
JB29314-2.4	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-2.4	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-2.5	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-2.5	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-3.1	Secured Storage	Adam Scott	02/26/13 13:50	Retrieve from Storage
JB29314-3.1	Adam Scott	Secured Staging Area	02/26/13 13:51	Return to Storage
JB29314-3.1	Secured Staging Area	Beatrice Marcelino	02/26/13 14:31	Retrieve from Storage
JB29314-3.1	Beatrice Marcelino	Secured Storage	02/26/13 16:01	Return to Storage
JB29314-3.3	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-3.3	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-3.4	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-3.4	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/21/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB29314-3.4	Secured Storage	Dipa Patel	02/25/13 17:06	Retrieve from Storage
JB29314-3.4	Dipa Patel	GCMSO	02/25/13 17:06	Load on Instrument
JB29314-3.4	GCMSO	Dipa Patel	02/26/13 11:40	Unload from Instrument
JB29314-3.4	Dipa Patel		02/26/13 11:40	Depleted
JB29314-3.5	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-3.5	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-4.1	Secured Storage	Adam Scott	02/26/13 13:50	Retrieve from Storage
JB29314-4.1	Adam Scott	Secured Staging Area	02/26/13 13:51	Return to Storage
JB29314-4.1	Secured Staging Area	Beatrice Marcelino	02/26/13 14:31	Retrieve from Storage
JB29314-4.1	Beatrice Marcelino	Secured Storage	02/26/13 16:01	Return to Storage
JB29314-4.3	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-4.3	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-4.3	Secured Storage	Emily Tran	02/26/13 10:13	Retrieve from Storage
JB29314-4.3	Emily Tran	Secured Storage	02/26/13 15:58	Return to Storage
JB29314-4.3	Secured Storage	Ying Li	02/27/13 13:34	Retrieve from Storage
JB29314-4.3	Ying Li	Secured Storage	02/27/13 17:24	Return to Storage
JB29314-4.4	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-4.4	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-4.4	Secured Storage	Margaret Starzec	03/01/13 17:11	Retrieve from Storage
JB29314-4.4	Margaret Starzec	GCMSX	03/01/13 17:11	Load on Instrument
JB29314-4.4	GCMSX	Margaret Starzec	03/05/13 09:55	Unload from Instrument
JB29314-4.4	Margaret Starzec	Secured Storage	03/05/13 09:56	Return to Storage
JB29314-4.5	Secured Storage	Jayna Patel	02/21/13 11:09	Retrieve from Storage
JB29314-4.5	Jayna Patel	Secured Storage	02/21/13 13:33	Return to Storage
JB29314-4.5	Secured Storage	Scott McGonigal	03/06/13 13:26	Retrieve from Storage
JB29314-4.5	Scott McGonigal	GCMSI	03/06/13 13:26	Load on Instrument
JB29314-4.5	GCMSI	Scott McGonigal	03/08/13 10:40	Unload from Instrument
JB29314-4.5	Scott McGonigal		03/08/13 10:40	Depleted

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO5887-MB2	O133464.D	1	02/26/13	DPP	n/a	n/a	VO5887

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-122%
2037-26-5	Toluene-D8	105%	81-127%
460-00-4	4-Bromofluorobenzene	99%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8399-MB	D205881.D	1	02/26/13	ET	n/a	n/a	VD8399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-1, JB29314-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	85	ug/kg	
71-43-2	Benzene	ND	50	6.0	ug/kg	
100-41-4	Ethylbenzene	ND	50	13	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	38	ug/kg	
108-88-3	Toluene	ND	50	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	50	7.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-122%
2037-26-5	Toluene-D8	98%	81-127%
460-00-4	4-Bromofluorobenzene	96%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8401-MB	D205929.D	1	02/27/13	ET	n/a	n/a	VD8401

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	85	ug/kg	
71-43-2	Benzene	ND	50	6.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	38	ug/kg	
108-88-3	Toluene	ND	50	5.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	70-122%
2037-26-5	Toluene-D8	99%	81-127%
460-00-4	4-Bromofluorobenzene	98%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7353-MB1	I182036.D	1	03/06/13	SJM	n/a	n/a	VI7353

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-122%
2037-26-5	Toluene-D8	108%	81-127%
460-00-4	4-Bromofluorobenzene	107%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	16.50	5.2	ug/kg	J
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO5887-MB1	O133444.D	1	02/25/13	DPP	n/a	n/a	VO5887

The QC reported here applies to the following samples: **Method:** SW846 8260B

VO5887-BS, JB29216-1DUP, JB29267-11MS

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	70-122%
2037-26-5	Toluene-D8	106%	81-127%
460-00-4	4-Bromofluorobenzene	100%	66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	17.87	16	ug/kg	J
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO5887-BS	O133445.D	1	02/25/13	DPP	n/a	n/a	VO5887

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	52.3	105	31-168
71-43-2	Benzene	50	50.3	101	76-117
100-41-4	Ethylbenzene	50	49.2	98	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.7	103	68-134
108-88-3	Toluene	50	48.7	97	77-121
1330-20-7	Xylene (total)	150	151	101	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-122%
2037-26-5	Toluene-D8	105%	81-127%
460-00-4	4-Bromofluorobenzene	101%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8399-BS	D205882.D	1	02/26/13	ET	n/a	n/a	VD8399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-1, JB29314-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2660	106	31-168
71-43-2	Benzene	2500	2650	106	76-117
100-41-4	Ethylbenzene	2500	2540	102	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2570	103	68-134
108-88-3	Toluene	2500	2600	104	77-121
1330-20-7	Xylene (total)	7500	7460	99	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-122%
2037-26-5	Toluene-D8	100%	81-127%
460-00-4	4-Bromofluorobenzene	97%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8401-BS	D205930.D	1	02/27/13	ET	n/a	n/a	VD8401

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2980	119	31-168
71-43-2	Benzene	2500	2600	104	76-117
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2500	100	68-134
108-88-3	Toluene	2500	2530	101	77-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-122%
2037-26-5	Toluene-D8	99%	81-127%
460-00-4	4-Bromofluorobenzene	97%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7353-BS	I182037.D	1	03/06/13	SJM	n/a	n/a	VI7353

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	52.2	104	31-168
71-43-2	Benzene	50	52.6	105	76-117
100-41-4	Ethylbenzene	50	49.8	100	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	50	55.1	110	68-134
108-88-3	Toluene	50	52.7	105	77-121
1330-20-7	Xylene (total)	150	152	101	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-122%
2037-26-5	Toluene-D8	106%	81-127%
460-00-4	4-Bromofluorobenzene	103%	66-132%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29267-11MS	O133451.D	1	02/25/13	DPP	n/a	n/a	VO5887
JB29267-11	O133448.D	1	02/25/13	DPP	n/a	n/a	VO5887

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-3

CAS No.	Compound	JB29267-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		42.8	46.9	110	10-198
71-43-2	Benzene	ND		42.8	43.9	102	44-130
100-41-4	Ethylbenzene	ND		42.8	42.1	98	29-137
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		42.8	29.8	70	39-143
108-88-3	Toluene	ND		42.8	42.2	99	40-135
1330-20-7	Xylene (total)	ND		128	127	99	28-139

CAS No.	Surrogate Recoveries	MS	JB29267-11	Limits
1868-53-7	Dibromofluoromethane	94%	93%	70-130%
17060-07-0	1,2-Dichloroethane-D4	90%	102%	70-122%
2037-26-5	Toluene-D8	106%	106%	81-127%
460-00-4	4-Bromofluorobenzene	100%	99%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB28910-2MS	D205890.D	1	02/26/13	ET	n/a	n/a	VD8399
JB28910-2MSD	D205891.D	1	02/26/13	ET	n/a	n/a	VD8399
JB28910-2	D205893.D	1	02/26/13	ET	n/a	n/a	VD8399

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-1, JB29314-2

CAS No.	Compound	JB28910-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3710	3910	105	4160	112	6	10-198/35
71-43-2	Benzene	ND		3710	3700	100	4180	113	12	44-130/21
100-41-4	Ethylbenzene	158		3710	3770	97	4180	108	10	29-137/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		3710	3510	94	3970	107	12	39-143/22
108-88-3	Toluene	ND		3710	3650	98	4100	110	12	40-135/22
1330-20-7	Xylene (total)	50.2	J	11100	10700	96	11900	106	11	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB28910-2	Limits
1868-53-7	Dibromofluoromethane	96%	96%	95%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	98%	70-122%
2037-26-5	Toluene-D8	98%	98%	98%	81-127%
460-00-4	4-Bromofluorobenzene	96%	95%	96%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29173-8MS	D205931.D	1	02/27/13	ET	n/a	n/a	VD8401
JB29173-8MSD	D205932.D	1	02/27/13	ET	n/a	n/a	VD8401
JB29173-8	D205934.D	1	02/27/13	ET	n/a	n/a	VD8401

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-2

CAS No.	Compound	JB29173-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3640	3950	108	4260	117	8	10-198/35
71-43-2	Benzene	ND		3640	3690	101	3980	109	8	44-130/21
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		3640	3450	95	3720	102	8	39-143/22
108-88-3	Toluene	23.1	J	3640	3630	99	3960	108	9	40-135/22

CAS No.	Surrogate Recoveries	MS	MSD	JB29173-8	Limits
1868-53-7	Dibromofluoromethane	96%	96%	95%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	97%	99%	70-122%
2037-26-5	Toluene-D8	99%	99%	99%	81-127%
460-00-4	4-Bromofluorobenzene	96%	95%	97%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29330-1MS	I182055.D	1	03/06/13	SJM	n/a	n/a	VI7353
JB29330-1MSD	I182056.D	1	03/06/13	SJM	n/a	n/a	VI7353
JB29330-1 [a]	I182039.D	1	03/06/13	SJM	n/a	n/a	VI7353

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-4

CAS No.	Compound	JB29330-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		58.3	51.9	89	46.9	80	10	10-198/35
71-43-2	Benzene	ND		58.3	45.1	77	42.1	72	7	44-130/21
100-41-4	Ethylbenzene	ND		58.3	41.3	71	38.1	65	8	29-137/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		58.3	51.9	89	45.3	78	14	39-143/22
108-88-3	Toluene	0.85	J	58.3	45.1	76	42.4	71	6	40-135/22
1330-20-7	Xylene (total)	ND		175	124	71	116	66	7	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB29330-1	Limits
1868-53-7	Dibromofluoromethane	103%	102%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	96%	97%	70-122%
2037-26-5	Toluene-D8	107%	105%	106%	81-127%
460-00-4	4-Bromofluorobenzene	103%	104%	106%	66-132%

(a) Sample analyzed from intact soil.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29216-1DUP	O133454.D	1	02/25/13	DPP	n/a	n/a	VO5887
JB29216-1	O133453.D	1	02/25/13	DPP	n/a	n/a	VO5887

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB29314-3

CAS No.	Compound	JB29216-1 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	18.1		4.0	J	128* [a]	34
71-43-2	Benzene	ND		ND		nc	15
100-41-4	Ethylbenzene	ND		ND		nc	29
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	21
1330-20-7	Xylene (total)	ND		ND		nc	26

CAS No.	Surrogate Recoveries	DUP	JB29216-1	Limits
1868-53-7	Dibromofluoromethane	96%	89%	70-130%
17060-07-0	1,2-Dichloroethane-D4	108%	105%	70-122%
2037-26-5	Toluene-D8	106%	106%	81-127%
460-00-4	4-Bromofluorobenzene	103%	101%	66-132%

(a) High RPD due to low concentration of hit

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD8379-BFB
Lab File ID: D205384.D
Instrument ID: GCMSD
Injection Date: 02/11/13
Injection Time: 20:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13978	18.7		Pass
75	30.0 - 60.0% of mass 95	35656	47.6		Pass
95	Base peak, 100% relative abundance	74890	100.0		Pass
96	5.0 - 9.0% of mass 95	4864	6.49		Pass
173	Less than 2.0% of mass 174	353	0.47	(0.55) [a]	Pass
174	50.0 - 120.0% of mass 95	64189	85.7		Pass
175	5.0 - 9.0% of mass 174	4784	6.39	(7.45) [a]	Pass
176	95.0 - 101.0% of mass 174	62130	83.0	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4120	5.50	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD8379-IC8379	D205385.D	02/11/13	20:29	00:29	Initial cal 0.5
VD8379-IC8379	D205386.D	02/11/13	20:58	00:58	Initial cal 1
VD8379-IC8379	D205387.D	02/11/13	21:28	01:28	Initial cal 2
VD8379-IC8379	D205388.D	02/11/13	21:57	01:57	Initial cal 5
VD8379-IC8379	D205389.D	02/11/13	22:27	02:27	Initial cal 10
VD8379-IC8379	D205390.D	02/11/13	22:56	02:56	Initial cal 20
VD8379-ICC8379	D205391.D	02/11/13	23:26	03:26	Initial cal 50
VD8379-IC8379	D205392.D	02/11/13	23:55	03:55	Initial cal 100
VD8379-IC8379	D205393.D	02/12/13	00:25	04:25	Initial cal 200

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD8399-BFB
Lab File ID: D205878.D
Instrument ID: GCMSD
Injection Date: 02/26/13
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18952	19.9		Pass
75	30.0 - 60.0% of mass 95	47520	49.8		Pass
95	Base peak, 100% relative abundance	95333	100.0		Pass
96	5.0 - 9.0% of mass 95	6370	6.68		Pass
173	Less than 2.0% of mass 174	475	0.50	(0.58) [a]	Pass
174	50.0 - 120.0% of mass 95	81245	85.2		Pass
175	5.0 - 9.0% of mass 174	6131	6.43	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	79144	83.0	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5250	5.51	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD8399-CC8379	D205879.D	02/26/13	10:24	00:39	Continuing cal 20
VD8399-MB	D205881.D	02/26/13	11:31	01:46	Method Blank
VD8399-BS	D205882.D	02/26/13	12:00	02:15	Blank Spike
ZZZZZZ	D205884.D	02/26/13	13:44	03:59	(unrelated sample)
ZZZZZZ	D205885.D	02/26/13	14:13	04:28	(unrelated sample)
ZZZZZZ	D205886.D	02/26/13	14:53	05:08	(unrelated sample)
ZZZZZZ	D205887.D	02/26/13	15:22	05:37	(unrelated sample)
ZZZZZZ	D205887R.D	02/26/13	15:22	05:37	(unrelated sample)
ZZZZZZ	D205888.D	02/26/13	15:51	06:06	(unrelated sample)
ZZZZZZ	D205889.D	02/26/13	16:20	06:35	(unrelated sample)
JB28910-2MS	D205890.D	02/26/13	16:50	07:05	Matrix Spike
JB28910-2MSD	D205891.D	02/26/13	17:19	07:34	Matrix Spike Duplicate
JB28910-2	D205893.D	02/26/13	18:17	08:32	(used for QC only; not part of job JB29314)
ZZZZZZ	D205894.D	02/26/13	18:46	09:01	(unrelated sample)
JB29314-1	D205895.D	02/26/13	19:16	09:31	AREAEC7_BOT
JB29314-2	D205896.D	02/26/13	19:45	10:00	AREAEC8_7FT
ZZZZZZ	D205897.D	02/26/13	20:14	10:29	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD8401-BFB
Lab File ID: D205926.D
Instrument ID: GCMSD
Injection Date: 02/27/13
Injection Time: 11:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16966	19.6		Pass
75	30.0 - 60.0% of mass 95	43248	49.9		Pass
95	Base peak, 100% relative abundance	86624	100.0		Pass
96	5.0 - 9.0% of mass 95	6081	7.02		Pass
173	Less than 2.0% of mass 174	197	0.23	(0.27) [a]	Pass
174	50.0 - 120.0% of mass 95	73565	84.9		Pass
175	5.0 - 9.0% of mass 174	5394	6.23	(7.33) [a]	Pass
176	95.0 - 101.0% of mass 174	71061	82.0	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	4910	5.67	(6.91) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VD8401-CC8379	D205927.D	02/27/13	12:22	00:31	Continuing cal 20
VD8401-MB	D205929.D	02/27/13	13:26	01:35	Method Blank
VD8401-BS	D205930.D	02/27/13	13:55	02:04	Blank Spike
JB29173-8MS	D205931.D	02/27/13	14:25	02:34	Matrix Spike
JB29173-8MSD	D205932.D	02/27/13	14:54	03:03	Matrix Spike Duplicate
JB29173-8	D205934.D	02/27/13	15:53	04:02	(used for QC only; not part of job JB29314)
ZZZZZZ	D205935.D	02/27/13	16:22	04:31	(unrelated sample)
ZZZZZZ	D205936.D	02/27/13	16:51	05:00	(unrelated sample)
ZZZZZZ	D205937.D	02/27/13	17:21	05:30	(unrelated sample)
ZZZZZZ	D205938.D	02/27/13	17:50	05:59	(unrelated sample)
ZZZZZZ	D205939.D	02/27/13	18:19	06:28	(unrelated sample)
ZZZZZZ	D205940.D	02/27/13	18:48	06:57	(unrelated sample)
ZZZZZZ	D205941.D	02/27/13	19:17	07:26	(unrelated sample)
ZZZZZZ	D205942.D	02/27/13	19:47	07:56	(unrelated sample)
JB29314-2	D205945.D	02/27/13	21:14	09:23	AREAEC8_7FT
ZZZZZZ	D205946.D	02/27/13	21:43	09:52	(unrelated sample)
ZZZZZZ	D205947.D	02/27/13	22:12	10:21	(unrelated sample)
ZZZZZZ	D205948.D	02/27/13	22:42	10:51	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VI7342-BFB
Lab File ID: I181796.D
Instrument ID: GCMSI
Injection Date: 02/26/13
Injection Time: 16:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	24578	16.6		Pass
75	30.0 - 60.0% of mass 95	66755	45.2		Pass
95	Base peak, 100% relative abundance	147648	100.0		Pass
96	5.0 - 9.0% of mass 95	9915	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	140653	95.3		Pass
175	5.0 - 9.0% of mass 174	12281	8.32	(8.73) [a]	Pass
176	95.0 - 101.0% of mass 174	135866	92.0	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	9216	6.24	(6.78) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI7342-IC7342	I181797.D	02/26/13	18:20	01:32	Initial cal 0.5
VI7342-IC7342	I181798.D	02/26/13	18:49	02:01	Initial cal 1
VI7342-IC7342	I181799.D	02/26/13	19:18	02:30	Initial cal 2
VI7342-IC7342	I181800.D	02/26/13	19:46	02:58	Initial cal 5
VI7342-IC7342	I181801.D	02/26/13	20:15	03:27	Initial cal 10
VI7342-IC7342	I181802.D	02/26/13	20:44	03:56	Initial cal 20
VI7342-IC7342	I181803.D	02/26/13	21:13	04:25	Initial cal 200
VI7342-IC7342	I181804.D	02/26/13	22:11	05:23	Initial cal 100
VI7342-ICC7342	I181805.D	02/26/13	23:08	06:20	Initial cal 50
VI7342-ICV7342	I181807.D	02/27/13	00:36	07:48	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VI7353-BFB
Lab File ID: I182033.D
Instrument ID: GCMSI
Injection Date: 03/06/13
Injection Time: 09:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12635	16.7		Pass
75	30.0 - 60.0% of mass 95	34525	45.6		Pass
95	Base peak, 100% relative abundance	75698	100.0		Pass
96	5.0 - 9.0% of mass 95	5201	6.87		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	74616	98.6		Pass
175	5.0 - 9.0% of mass 174	6197	8.19	(8.31) [a]	Pass
176	95.0 - 101.0% of mass 174	71914	95.0	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	4785	6.32	(6.65) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI7353-CC7342	I182034.D	03/06/13	10:31	00:32	Continuing cal 50
VI7353-MB1	I182036.D	03/06/13	11:41	01:42	Method Blank
VI7353-BS	I182037.D	03/06/13	12:14	02:15	Blank Spike
JB29330-1	I182039.D	03/06/13	13:20	03:21	(used for QC only; not part of job JB29314)
ZZZZZZ	I182040.D	03/06/13	13:49	03:50	(unrelated sample)
ZZZZZZ	I182041.D	03/06/13	14:18	04:19	(unrelated sample)
ZZZZZZ	I182042.D	03/06/13	14:47	04:48	(unrelated sample)
ZZZZZZ	I182043.D	03/06/13	15:16	05:17	(unrelated sample)
ZZZZZZ	I182044.D	03/06/13	15:45	05:46	(unrelated sample)
JB29314-4	I182045.D	03/06/13	16:13	06:14	AREAEC8_BOTD
ZZZZZZ	I182046.D	03/06/13	16:43	06:44	(unrelated sample)
ZZZZZZ	I182047.D	03/06/13	17:12	07:13	(unrelated sample)
ZZZZZZ	I182048.D	03/06/13	17:41	07:42	(unrelated sample)
ZZZZZZ	I182049.D	03/06/13	18:10	08:11	(unrelated sample)
ZZZZZZ	I182050.D	03/06/13	18:38	08:39	(unrelated sample)
ZZZZZZ	I182051.D	03/06/13	19:07	09:08	(unrelated sample)
ZZZZZZ	I182052.D	03/06/13	19:36	09:37	(unrelated sample)
ZZZZZZ	I182053.D	03/06/13	20:05	10:06	(unrelated sample)
ZZZZZZ	I182054.D	03/06/13	20:34	10:35	(unrelated sample)
JB29330-1MS	I182055.D	03/06/13	21:03	11:04	Matrix Spike
JB29330-1MSD	I182056.D	03/06/13	21:32	11:33	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VO5870-BFB
Lab File ID: O133055.D
Instrument ID: GCMSO
Injection Date: 02/06/13
Injection Time: 14:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11061	15.5		Pass
75	30.0 - 60.0% of mass 95	32011	44.9		Pass
95	Base peak, 100% relative abundance	71275	100.0		Pass
96	5.0 - 9.0% of mass 95	4754	6.67		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	68456	96.0		Pass
175	5.0 - 9.0% of mass 174	5739	8.05	(8.38) [a]	Pass
176	95.0 - 101.0% of mass 174	67640	94.9	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4334	6.08	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO5870-IC5870	O133056.D	02/06/13	15:27	00:39	Initial cal 0.5
VO5870-IC5870	O133057.D	02/06/13	15:57	01:09	Initial cal 1
VO5870-IC5870	O133058.D	02/06/13	16:28	01:40	Initial cal 2
VO5870-IC5870	O133059.D	02/06/13	16:58	02:10	Initial cal 5
VO5870-IC5870	O133060.D	02/06/13	17:28	02:40	Initial cal 10
VO5870-IC5870	O133061.D	02/06/13	17:58	03:10	Initial cal 20
VO5870-ICC5870	O133062.D	02/06/13	18:29	03:41	Initial cal 50
VO5870-IC5870	O133063.D	02/06/13	18:59	04:11	Initial cal 100
VO5870-IC5870	O133064.D	02/06/13	19:29	04:41	Initial cal 200

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VO5887-BFB
Lab File ID: O133440.D
Instrument ID: GCMSO
Injection Date: 02/25/13
Injection Time: 11:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9189	15.4		Pass
75	30.0 - 60.0% of mass 95	27067	45.4		Pass
95	Base peak, 100% relative abundance	59605	100.0		Pass
96	5.0 - 9.0% of mass 95	4170	7.00		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	59659	100.1		Pass
175	5.0 - 9.0% of mass 174	4967	8.33	(8.33) [a]	Pass
176	95.0 - 101.0% of mass 174	57157	95.9	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	3814	6.40	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO5887-CC5870	O133442.D	02/25/13	13:00	01:28	Continuing cal 20
VO5887-MB1	O133444.D	02/25/13	14:11	02:39	Method Blank
VO5887-BS	O133445.D	02/25/13	15:06	03:34	Blank Spike
ZZZZZZ	O133447.D	02/25/13	16:46	05:14	(unrelated sample)
JB29267-11	O133448.D	02/25/13	17:16	05:44	(used for QC only; not part of job JB29314)
ZZZZZZ	O133449.D	02/25/13	17:46	06:14	(unrelated sample)
JB29267-11MS	O133451.D	02/25/13	18:47	07:15	Matrix Spike
JB29216-1	O133453.D	02/25/13	19:47	08:15	(used for QC only; not part of job JB29314)
JB29216-1DUP	O133454.D	02/25/13	20:18	08:46	Duplicate
ZZZZZZ	O133455.D	02/25/13	20:48	09:16	(unrelated sample)
ZZZZZZ	O133456.D	02/25/13	21:18	09:46	(unrelated sample)
ZZZZZZ	O133457.D	02/25/13	21:48	10:16	(unrelated sample)
ZZZZZZ	O133458.D	02/25/13	22:18	10:46	(unrelated sample)
ZZZZZZ	O133459.D	02/25/13	22:48	11:16	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VO5887-BFB2
Lab File ID: O133461.D
Instrument ID: GCMSO
Injection Date: 02/25/13
Injection Time: 23:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8666	15.1		Pass
75	30.0 - 60.0% of mass 95	25824	44.9		Pass
95	Base peak, 100% relative abundance	57464	100.0		Pass
96	5.0 - 9.0% of mass 95	4108	7.15		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	57203	99.5		Pass
175	5.0 - 9.0% of mass 174	4728	8.23	(8.27) [a]	Pass
176	95.0 - 101.0% of mass 174	56096	97.6	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	3734	6.50	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VO5887-CC5870	O133462.D	02/26/13	00:19	00:30	Continuing cal 50
VO5887-MB2	O133464.D	02/26/13	01:50	02:01	Method Blank
ZZZZZZ	O133465.D	02/26/13	02:20	02:31	(unrelated sample)
ZZZZZZ	O133466.D	02/26/13	02:50	03:01	(unrelated sample)
ZZZZZZ	O133467.D	02/26/13	03:21	03:32	(unrelated sample)
ZZZZZZ	O133468.D	02/26/13	03:51	04:02	(unrelated sample)
JB29314-3	O133469.D	02/26/13	04:21	04:32	AREAEC8_BOT
ZZZZZZ	O133471.D	02/26/13	05:21	05:32	(unrelated sample)
ZZZZZZ	O133472.D	02/26/13	05:51	06:02	(unrelated sample)
ZZZZZZ	O133473.D	02/26/13	06:22	06:33	(unrelated sample)
ZZZZZZ	O133474.D	02/26/13	06:52	07:03	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VD8399-CC8379	**Injection Date:**	02/26/13
Lab File ID:	D205879.D	**Injection Time:**	10:24
Instrument ID:	GCMSD	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	148203	8.01	234346	10.25	360668	11.16	335660	14.50	200303	17.09
Upper Limit [a]	296406	8.51	468692	10.75	721336	11.66	671320	15.00	400606	17.59
Lower Limit [b]	74102	7.51	117173	9.75	180334	10.66	167830	14.00	100152	16.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD8399-MB	126933	8.05	237105	10.24	360143	11.16	329895	14.50	198009	17.09
VD8399-BS	148463	8.02	236643	10.25	359474	11.17	336703	14.51	203757	17.09
ZZZZZZ	164512	8.02	231323	10.25	353261	11.16	334710	14.51	204429	17.09
ZZZZZZ	144071	8.01	232509	10.25	356988	11.16	345058	14.51	208829	17.09
ZZZZZZ	145221	8.03	234318	10.25	355575	11.16	333777	14.50	204837	17.09
ZZZZZZ	146686	8.03	236853	10.25	366711	11.16	345675	14.51	223599	17.09
ZZZZZZ	146686	8.03	236853	10.25	366711	11.16	345675	14.51	223599	17.09
ZZZZZZ	134361	8.03	253418	10.25	392198	11.17	384224	14.51	207740	17.10
ZZZZZZ	135964	8.03	249249	10.25	384107	11.17	380354	14.51	204715	17.09
JB28910-2MS	150590	8.03	238936	10.25	365520	11.17	334573	14.51	202790	17.09
JB28910-2MSD	147821	8.02	234246	10.25	354044	11.16	325963	14.51	200874	17.09
JB28910-2	139126	8.01	235704	10.25	359143	11.16	333885	14.51	202185	17.09
ZZZZZZ	145577	8.02	238885	10.25	365993	11.16	345122	14.51	207247	17.09
JB29314-1 [c]	134128	8.02	242344	10.25	370490	11.16	342272	14.51	205213	17.09
JB29314-2	133438	8.01	233927	10.25	355589	11.17	351192	14.51	209400	17.09
ZZZZZZ	139260	8.02	236438	10.25	359074	11.16	335954	14.51	202643	17.09

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Diluted due to high concentration of target compound.

Volatile Internal Standard Area Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VD8401-CC8379	**Injection Date:**	02/27/13
Lab File ID:	D205927.D	**Injection Time:**	12:22
Instrument ID:	GCMSD	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	139167	8.02	226257	10.25	343061	11.16	326325	14.51	193152	17.09
Upper Limit [a]	278334	8.52	452514	10.75	686122	11.66	652650	15.01	386304	17.59
Lower Limit [b]	69584	7.52	113129	9.75	171531	10.66	163163	14.01	96576	16.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD8401-MB	132383	8.03	228898	10.25	346461	11.16	330907	14.51	198677	17.09
VD8401-BS	139276	8.02	225554	10.25	344155	11.17	320161	14.51	196898	17.09
JB29173-8MS	135613	8.02	225442	10.25	342489	11.17	316812	14.51	196857	17.09
JB29173-8MSD	140942	8.03	228300	10.25	346563	11.17	319762	14.51	194167	17.10
JB29173-8	128224	8.03	221581	10.25	335472	11.17	321444	14.51	192669	17.09
ZZZZZZ	132512	8.03	222714	10.25	337593	11.17	323705	14.51	190396	17.09
ZZZZZZ	123867	8.03	222641	10.25	337744	11.17	320861	14.51	190802	17.10
ZZZZZZ	125182	8.02	219655	10.25	335747	11.17	315823	14.51	188946	17.09
ZZZZZZ	126075	8.02	218729	10.25	331288	11.17	324071	14.51	191292	17.10
ZZZZZZ	125964	8.02	213577	10.25	327135	11.17	320895	14.51	188242	17.10
ZZZZZZ	115059	8.02	211048	10.25	322353	11.17	312514	14.51	186412	17.09
ZZZZZZ	135196	8.02	219075	10.25	335932	11.17	310088	14.51	187796	17.09
ZZZZZZ	134003	8.03	218017	10.25	333359	11.16	322745	14.51	205031	17.09
JB29314-2	131082	8.02	226941	10.25	344841	11.17	320656	14.51	196574	17.10
ZZZZZZ	135886	8.02	230627	10.25	350787	11.16	325070	14.50	197799	17.09
ZZZZZZ	137343	8.01	231940	10.25	349008	11.17	328353	14.51	195144	17.09
ZZZZZZ	136793	8.02	227450	10.25	345265	11.17	333120	14.51	205626	17.10

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VI7353-CC7342	**Injection Date:**	03/06/13
Lab File ID:	I182034.D	**Injection Time:**	10:31
Instrument ID:	GCMSI	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	68316	7.21	226109	9.47	314047	10.39	260975	13.55	153646	15.91
Upper Limit [a]	136632	7.71	452218	9.97	628094	10.89	521950	14.05	307292	16.41
Lower Limit [b]	34158	6.71	113055	8.97	157024	9.89	130488	13.05	76823	15.41

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI7353-MB1	60809	7.21	227358	9.47	315159	10.39	255263	13.55	140909	15.91
VI7353-BS	75959	7.21	231640	9.47	323004	10.39	267936	13.55	157512	15.91
JB29330-1	57684	7.22	206843	9.47	292262	10.39	241561	13.55	133269	15.91
ZZZZZZ	74797	7.20	222094	9.47	311457	10.39	253006	13.55	130360	15.91
ZZZZZZ	61367	7.21	219832	9.47	308125	10.39	256793	13.55	140576	15.91
ZZZZZZ	61747	7.20	212835	9.47	293976	10.39	246025	13.55	134081	15.91
ZZZZZZ	65669	7.21	205317	9.47	283749	10.39	236466	13.55	129404	15.91
ZZZZZZ	75006	7.21	211043	9.47	296553	10.39	242201	13.55	132143	15.91
JB29314-4	55597	7.21	207029	9.47	288520	10.39	239610	13.55	127675	15.91
ZZZZZZ	67662	7.20	205992	9.47	285521	10.39	234095	13.55	129311	15.91
ZZZZZZ	54962	7.20	202218	9.47	281741	10.39	235597	13.55	127387	15.92
ZZZZZZ	56666	7.21	197759	9.47	274865	10.39	232801	13.55	129769	15.91
ZZZZZZ	53256	7.21	199835	9.47	279392	10.39	236600	13.55	128710	15.91
ZZZZZZ	62450	7.21	199409	9.47	278738	10.39	229555	13.55	126403	15.91
ZZZZZZ	58858	7.21	203489	9.47	283563	10.39	237038	13.55	129720	15.91
ZZZZZZ	57719	7.21	201032	9.47	282118	10.39	239955	13.55	129794	15.91
ZZZZZZ	57926	7.21	193493	9.47	268873	10.39	225586	13.55	125420	15.91
ZZZZZZ	57858	7.21	200245	9.47	279594	10.39	233085	13.55	127236	15.91
JB29330-1MS	64993	7.21	204181	9.47	284395	10.39	232007	13.55	137452	15.91
JB29330-1MSD	61477	7.21	209914	9.47	293987	10.39	246045	13.55	142106	15.91

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VO5887-CC5870	**Injection Date:**	02/25/13
Lab File ID:	O133442.D	**Injection Time:**	13:00
Instrument ID:	GCMSO	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	113468	8.25	226138	10.68	303272	11.64	288884	14.96	180854	17.43
Upper Limit [a]	226936	8.75	452276	11.18	606544	12.14	577768	15.46	361708	17.93
Lower Limit [b]	56734	7.75	113069	10.18	151636	11.14	144442	14.46	90427	16.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VO5887-MB1	105034	8.25	225634	10.69	302730	11.64	291097	14.96	179033	17.43
VO5887-BS	105664	8.25	222986	10.68	304737	11.64	294266	14.96	180952	17.43
ZZZZZZ	98047	8.25	210031	10.69	285916	11.64	275125	14.96	170780	17.43
JB29267-11	98714	8.25	213046	10.69	290596	11.64	278637	14.96	171329	17.43
ZZZZZZ	103957	8.25	208338	10.69	284209	11.64	276906	14.96	170976	17.43
JB29267-11MS	59686	8.25	210444	10.69	286144	11.64	271868	14.96	166402	17.43
JB29216-1	107351	8.25	219782	10.69	303610	11.64	290976	14.96	177694	17.43
JB29216-1DUP	94050	8.24	186190	10.69	257372	11.64	246468	14.96	147334	17.43
ZZZZZZ	102969	8.25	219991	10.69	304428	11.64	292103	14.96	177672	17.43
ZZZZZZ	102154	8.24	219476	10.69	302617	11.64	294905	14.96	184331	17.43
ZZZZZZ	90672	8.25	206465	10.69	282513	11.64	265604	14.96	152844	17.43
ZZZZZZ	88249	8.25	186576	10.69	256747	11.64	249302	14.96	152281	17.43
ZZZZZZ	99824	8.25	207029	10.69	288803	11.64	262593	14.96	137862	17.43

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VO5887-CC5870	**Injection Date:**	02/26/13
Lab File ID:	O133462.D	**Injection Time:**	00:19
Instrument ID:	GCMSO	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	107487	8.25	207707	10.69	286762	11.64	278710	14.96	174487	17.43
Upper Limit [a]	214974	8.75	415414	11.19	573524	12.14	557420	15.46	348974	17.93
Lower Limit [b]	53744	7.75	103854	10.19	143381	11.14	139355	14.46	87244	16.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VO5887-MB2	112471	8.25	216486	10.69	298088	11.64	286571	14.96	177196	17.43
ZZZZZZ	97629	8.25	211776	10.69	286223	11.64	278689	14.96	172679	17.43
ZZZZZZ	104785	8.25	211321	10.69	292626	11.64	283080	14.96	174102	17.43
ZZZZZZ	107146	8.25	207034	10.69	284051	11.64	275541	14.96	169819	17.43
ZZZZZZ	107297	8.25	201690	10.69	275651	11.64	267103	14.96	166670	17.43
JB29314-3	90363	8.25	212842	10.69	291839	11.64	284798	14.96	175723	17.43
ZZZZZZ	113793	8.25	210853	10.69	291755	11.64	279945	14.96	174069	17.43
ZZZZZZ	119074	8.25	219455	10.69	301240	11.64	289896	14.96	177731	17.43
ZZZZZZ	120482	8.25	221418	10.69	299986	11.64	290127	14.96	183504	17.43
ZZZZZZ	121376	8.25	229031	10.69	309643	11.64	297009	14.96	187309	17.43

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB29314-1	D205895.D	94.0	98.0	97.0	96.0
JB29314-2	D205945.D	95.0	99.0	100.0	95.0
JB29314-2	D205896.D	96.0	100.0	101.0	98.0
JB29314-3	O133469.D	96.0	107.0	106.0	100.0
JB29314-4	I182045.D	103.0	105.0	106.0	110.0
JB28910-2MS	D205890.D	96.0	98.0	98.0	96.0
JB28910-2MSD	D205891.D	96.0	98.0	98.0	95.0
JB29173-8MS	D205931.D	96.0	98.0	99.0	96.0
JB29173-8MSD	D205932.D	96.0	97.0	99.0	95.0
JB29216-1DUP	O133454.D	96.0	108.0	106.0	103.0
JB29267-11MS	O133451.D	94.0	90.0	106.0	100.0
JB29330-1MS	I182055.D	103.0	98.0	107.0	103.0
JB29330-1MSD	I182056.D	102.0	96.0	105.0	104.0
VD8399-BS	D205882.D	96.0	99.0	100.0	97.0
VD8399-MB	D205881.D	94.0	99.0	98.0	96.0
VD8401-BS	D205930.D	96.0	97.0	99.0	97.0
VD8401-MB	D205929.D	94.0	98.0	99.0	98.0
VI7353-BS	I182037.D	105.0	101.0	106.0	103.0
VI7353-MB1	I182036.D	101.0	96.0	108.0	107.0
VO5887-BS	O133445.D	95.0	102.0	105.0	101.0
VO5887-MB2	O133464.D	95.0	102.0	105.0	99.0
VO5887-MB1	O133444.D	93.0	100.0	106.0	100.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = 1,2-Dichloroethane-D4	70-122%
S3 = Toluene-D8	81-127%
S4 = 4-Bromofluorobenzene	66-132%

Initial Calibration Summary

Job Number: JB29314 **Sample:** VD8379-ICC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205391.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSD

```
Method       : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title        : SW-846 Method 8260B
Last Update  : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration

Calibration Files
5   =d205388.D   2   =d205387.D   0.5 =d205385.D   50  =d205391.D
100 =d205392.D   1   =d205386.D   200 =d205393.D   20  =d205390.D
10  =d205389.D       =
```

Compound	5	2	0.5	50	100	1	200	20	10	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) 1,4-dioxane	0.090	0.088		0.080	0.105		0.084	0.100	0.118	0.095	13.98
3) tertiary butyl alcohol	1.069	1.026		1.114	1.111	0.830	1.009	1.154	1.210	1.065	10.84
4) I pentafluorobenzene ----------ISTD----------											
5) 1,2-dichloro-1,2,2-trifluoroet										0.000#	-1.00
6) chlorodifluoromethane	0.568	0.561		0.531	0.550	0.437	0.557	0.551	0.617	0.547	9.26
7) dichlorodifluoromethane	0.680	0.713		0.697	0.658	0.519	0.696	0.716	0.680	0.670	9.55
8) chloromethane	0.768	0.771	0.786	0.734	0.760	0.622	0.805	0.759	0.706	0.746	7.30
9) vinyl chloride	0.784	0.762	0.720	0.787	0.786	0.624	0.813	0.794	0.739	0.757	7.58
10) bromomethane	0.457	0.470	0.398	0.451	0.425	0.380	0.320	0.476	0.435	0.424	11.84
11) chloroethane	0.452	0.454	0.410	0.418	0.451	0.369	0.436	0.436	0.402	0.425	6.66
12) vinyl bromide										0.000#	-1.00
13) trichlorofluoromethane	0.808	0.812		0.836	0.811	0.615	0.869	0.854	0.819	0.803	9.86
14) pentane	0.894	0.909	0.829	0.828	0.920	0.768	0.967	0.906	0.841	0.874	6.99
15) ethyl ether	0.329	0.382	0.471	0.328	0.346	0.361	0.349	0.345	0.295	0.356	13.85
16) acrolein	0.144	0.145		0.130	0.170	0.145	0.145	0.141	0.121	0.143	9.88
17) chlorotrifluoroethene										0.000#	-1.00
18) 2-chloropropane	0.995	1.198	1.253	0.978	1.005	1.195	0.977	1.001	0.831	1.048	13.07
19) 1,1-dichloroethene	0.539	0.568	0.441	0.509	0.522	0.490	0.517	0.516	0.450	0.506	7.94
20) acetone	0.058			0.052	0.059		0.056	0.061	0.050	0.056	7.69
21) allyl chloride	1.299	1.442	0.989	1.206	1.299	1.050	1.187	1.316	1.091	1.209	12.05
22) acetonitrile	0.029	0.032		0.024	0.026		0.025	0.027	0.031	0.028	11.03
23) acetaldehyde											

Initial Calibration Summary

Job Number: JB29314 **Sample:** VD8379-ICC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205391.D
Project: BMSMC, Building 5 Area, PR

```
                                                                                  0.000#  -1.00
24)  iodomethane
           0.955 0.929 0.739 0.940 0.982 0.787 0.945 0.959 0.827   0.896    9.79
25)  iso-butyl alcohol
                                                                                  0.000#  -1.00
26)  carbon disulfide
           1.885 1.862 1.458 1.802 1.857 1.602 1.812 1.832 1.557   1.741    9.06
27)  methylene chloride
           0.640 0.682       0.584 0.609 0.736 0.593 0.613 0.518   0.622   10.57
28)  1-chloropropane
           1.017 1.185 1.300 0.974 1.003 1.044 0.997 1.025 0.896   1.049   11.51
29)  methyl acetate
           0.540 0.593 0.484 0.494 0.504 0.560 0.506 0.528 0.527   0.526    6.54
30)  methyl tert butyl ether
           1.800 1.765 1.547 1.726 1.807 1.510 1.730 1.831 1.534   1.694    7.57
31)  trans-1,2-dichloroethene
           0.558 0.565 0.452 0.533 0.551 0.530 0.542 0.539 0.470   0.526    7.44
32)  di-isopropyl ether
           1.871 1.945 1.552 1.821 1.869 1.414 1.844 1.889 1.865   1.786    9.98
33)  ethyl tert-butyl ether
           1.873 1.875 1.428 1.869 1.918 1.377 1.875 1.919 1.908   1.783   12.16
34)  2-butanone
           0.067 0.065       0.073 0.076       0.074 0.078 0.066   0.071    7.58
35)  1,1-dichloroethane
           0.996 1.011 0.802 0.984 1.013 0.823 0.987 1.009 0.842   0.941    9.56
36)  chloroprene
           0.788 0.817 0.568 0.775 0.810 0.581 0.805 0.793 0.791   0.748   13.25
37)  acrylonitrile
           0.242 0.245 0.201 0.235 0.250 0.204 0.240 0.256 0.217   0.232    8.52
38)  vinyl acetate
           0.110 0.105       0.113 0.118       0.116 0.116 0.112   0.113    4.03
39)  ethyl acetate
           0.092 0.086       0.079 0.082       0.084 0.091 0.087   0.086    5.41
40)  2,2-dichloropropane
           0.746 0.755 0.678 0.685 0.697 0.662 0.681 0.718 0.617   0.693    6.11
41)  cis-1,2-dichloroethene
           0.586 0.612 0.479 0.572 0.595 0.531 0.582 0.592 0.505   0.562    8.11
42)  propionitrile
           0.093 0.094 0.088 0.091 0.099 0.079 0.094 0.101 0.084   0.091    7.81
43)  bromochloromethane
           0.275 0.269       0.285 0.295 0.220 0.282 0.289 0.247   0.270    9.27
44)  tetrahydrofuran
           0.083 0.099       0.084 0.086 0.084 0.083 0.088 0.080   0.086    6.61
45)  chloroform
           0.902 0.923 0.734 0.898 0.929 0.791 0.889 0.930 0.795   0.866    8.38
46)  dibromofluoromethane (s)
           0.502 0.532       0.481 0.497 0.444 0.482 0.501 0.468   0.488    5.34
47)  1,2-dichloroethane-d4 (s)
           0.610 0.625       0.583 0.600 0.517 0.584 0.627 0.570   0.590    6.08
48)  freon 113
           0.347 0.350       0.364 0.384 0.257 0.389 0.360 0.385   0.354   12.01
49)  methacrylonitrile
           0.398 0.427 0.461 0.366 0.381 0.381 0.360 0.409 0.346   0.392    9.22
50)  t-butyl formate
           0.566 0.566       0.584 0.593 0.436 0.555 0.593 0.604   0.562    9.51
51)  1,1,1-trichloroethane
           0.807 0.794 0.673 0.789 0.823 0.639 0.794 0.809 0.698   0.758    9.06
52)  tert-amyl methyl ether
           1.791 1.841 1.690 1.769 1.875 1.416 1.832 1.845 1.816   1.764    8.00
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VD8379-ICC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205391.D
Project: BMSMC, Building 5 Area, PR

```
53) I   1,4-difluorobenzene   ----------------ISTD--------------------
54)  cyclohexane
           0.540 0.547 0.415 0.544 0.552 0.482 0.556 0.528 0.497   0.518    8.90
55)  tert amyl alcohol
           0.018 0.019       0.015 0.016 0.014 0.015 0.018 0.017   0.016   10.97
56)  2,2,4-trimethylpentane
           1.209 1.332 1.050 1.237 1.304 1.074 1.403 1.279 1.313   1.245    9.44
57)  epichlorohydrin
           0.042 0.047 0.037 0.041 0.045 0.032 0.044 0.046 0.046   0.042   11.42
58)  n-butyl alcohol
           0.012 0.013 0.013 0.012 0.014 0.012 0.013 0.013 0.013   0.013    4.62
59)  carbon tetrachloride
           0.447 0.461 0.385 0.450 0.467 0.361 0.462 0.447 0.394   0.430    9.17
60)  1,1-dichloropropene
           0.471 0.477 0.393 0.454 0.470 0.389 0.469 0.471 0.409   0.445    8.23
61)  hexane
           0.408 0.456 0.374 0.397 0.399 0.406 0.428 0.397 0.419   0.409    5.66
62)  benzene
           1.378 1.409 1.177 1.359 1.401 1.205 1.379 1.396 1.219   1.325    7.17
63)  heptane
           0.222 0.248 0.198 0.231 0.238 0.189 0.259 0.233 0.248   0.230   10.11
64)  isopropyl acetate
           0.748 0.779 0.686 0.718 0.727 0.624 0.729 0.742 0.765   0.724    6.36
65)  1,2-dichloroethane
           0.469 0.465 0.353 0.468 0.484 0.377 0.480 0.492 0.419   0.445   11.29
66)  Ethyl Acrylate
           0.475 0.488 0.433 0.496 0.523 0.518 0.525 0.536 0.516   0.501    6.41
67)  trichloroethene
           0.334 0.333 0.297 0.342 0.350 0.284 0.348 0.347 0.301   0.326    7.73
68)  2-nitropropane
           0.944 1.004 0.994 0.968 1.026 0.816 1.037 1.012 0.989   0.977    6.82
69)  2-chloroethyl vinyl ether
           0.242 0.244       0.257 0.270 0.173 0.273 0.263 0.267   0.249   13.19
70)  methyl methacrylate
           0.092 0.085       0.104 0.111 0.082 0.111 0.105 0.095   0.098   11.45
71)  tert-amyl ethyl ether
           0.502 0.502       0.526 0.552 0.347 0.542 0.527 0.511   0.501   12.97
72)  1,2-dichloropropane
           0.375 0.363 0.291 0.375 0.397 0.304 0.395 0.381 0.326   0.356   11.07
73)  methylcyclohexane
           0.547 0.585 0.413 0.573 0.607 0.454 0.632 0.557 0.598   0.552   13.13
74)  dibromomethane
           0.217 0.226 0.151 0.224 0.234 0.173 0.228 0.232 0.201   0.210   13.97
75)  bromodichloromethane
           0.435 0.440 0.341 0.469 0.486 0.364 0.478 0.478 0.405   0.433   12.17
76)  cis-1,3-dichloropropene
           0.571 0.567 0.463 0.598 0.622 0.474 0.618 0.620 0.518   0.561   11.08
77)  toluene-d8 (s)
           1.230 1.299       1.200 1.263 1.004 1.275 1.234 1.189   1.212    7.56
78)  4-methyl-2-pentanone
           0.151 0.162       0.156 0.169 0.124 0.172 0.166 0.145   0.156   10.06
79)  toluene
           0.839 0.864 0.738 0.859 0.901 0.706 0.889 0.877 0.758   0.826    8.74
80)  3-methyl-1-butanol
           0.012 0.012 0.010 0.012 0.013 0.010 0.013 0.013 0.013   0.012   11.41
81)  trans-1,3-dichloropropene
           0.533 0.537 0.445 0.559 0.592 0.445 0.591 0.579 0.487   0.530   10.98
82)  ethyl methacrylate
           0.470 0.490 0.483 0.512 0.556 0.400 0.559 0.537 0.452   0.496   10.46
83)  1,1,2-trichloroethane
```

```
            0.257 0.256 0.246 0.268 0.285 0.236 0.283 0.279 0.242   0.261    7.04
 84)  2-hexanone
            0.139 0.145 0.116 0.144 0.159 0.116 0.165 0.157 0.137   0.142   12.32

 85) I   chlorobenzene-d5      ----------------ISTD--------------------
 86)  tetrachloroethene
            0.435 0.441 0.339 0.423 0.442 0.370 0.423 0.426 0.385   0.409    8.82
 87)  1,3-dichloropropane
            0.611 0.619 0.532 0.616 0.643 0.529 0.624 0.656 0.568   0.600    7.69
 88)  butyl acetate
            0.268 0.285 0.184 0.273 0.280 0.224 0.283 0.287 0.294   0.264   13.75
 89)  3,3-dimethyl-1-butanol
            0.049 0.048 0.042 0.044 0.049 0.044 0.049 0.050 0.052   0.047    6.83
 90)  dibromochloromethane
            0.373 0.380 0.364 0.408 0.422 0.316 0.406 0.407 0.352   0.381    8.89
 91)  1,2-dibromoethane
            0.369 0.352 0.302 0.374 0.387 0.297 0.369 0.389 0.338   0.353    9.66
 92)  chlorobenzene
            1.050 1.037 0.955 1.058 1.078 0.895 1.047 1.074 0.946   1.016    6.50
 93)  1,1,1,2-tetrachloroethane
            0.384 0.369 0.339 0.403 0.414 0.310 0.404 0.406 0.355   0.376    9.46
 94)  ethylbenzene
            1.806 1.876 1.758 1.802 1.841 1.587 1.795 1.824 1.602   1.766    5.80
 95)  m,p-xylene
            0.697 0.705 0.835 0.706 0.717 0.636 0.701 0.707 0.629   0.704    8.37
 96)  o-xylene
            0.703 0.695 0.769 0.710 0.733 0.609 0.721 0.715 0.631   0.698    7.09
 97)  styrene
            1.205 1.155 1.105 1.237 1.285 1.011 1.252 1.244 1.087   1.176    7.82
 98)  bromoform
            0.282 0.268 0.305 0.315 0.335 0.236 0.331 0.309 0.273   0.295   11.01

 99) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
100)  isopropylbenzene
            3.102 3.181 2.953 2.992 3.051 2.705 3.072 3.077 2.754   2.987    5.36
101)  4-bromofluorobenzene (s)
            0.926 1.004       0.881 0.907 0.804 0.959 0.921 0.866   0.908    6.66
102)  bromobenzene
            0.836 0.847 0.807 0.815 0.834 0.722 0.852 0.841 0.752   0.812    5.61
103)  cyclohexanone
            0.026 0.026       0.021 0.021       0.019 0.027 0.021   0.023   13.40
104)  1,1,2,2-tetrachloroethane
            0.908 0.934 1.143 0.869 0.888 0.909 0.892 0.924 0.824   0.921    9.69
105)  trans-1,4-dichloro-2-butene
            0.249 0.256 0.236 0.258 0.271 0.211 0.274 0.270 0.236   0.251    8.19
106)  1,2,3-trichloropropane
            0.260 0.270 0.311 0.250 0.257 0.240 0.258 0.263 0.244   0.262    7.93
107)  n-propylbenzene
            3.651 3.727 3.954 3.485 3.534 3.366 3.590 3.546 3.183   3.560    6.11
108)  p-ethyltoluene
            2.817 3.025 3.117 2.776 2.883 2.412 2.942 2.860 2.833   2.852    6.91
109)  2-chlorotoluene
            0.751 0.756 0.707 0.745 0.772 0.695 0.791 0.769 0.691   0.742    4.84
110)  4-chlorotoluene
            2.343 2.380 2.504 2.284 2.339 2.235 2.387 2.334 2.109   2.324    4.71
111)  1,3,5-trimethylbenzene
            2.685 2.869 3.546 2.649 2.731 2.675 2.743 2.700 2.396   2.777   11.31
112)  tert-butylbenzene
            2.343 2.436 2.470 2.287 2.345 2.216 2.373 2.384 2.123   2.331    4.64
113)  pentachloroethane
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VD8379-ICC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205391.D
Project: BMSMC, Building 5 Area, PR

```
            0.518 0.506 0.591 0.520 0.512 0.487 0.519 0.547 0.478   0.520    6.39
114)  1,2,4-trimethylbenzene
            2.793 3.047       2.728 2.813 3.086 2.799 2.819 2.496   2.823    6.52
115)  sec-butylbenzene
            3.530 3.622 3.632 3.401 3.454 3.285 3.405 3.476 3.095   3.433    4.88
116)  1,3-dichlorobenzene
            1.612 1.643 1.808 1.585 1.617 1.465 1.595 1.632 1.456   1.601    6.47
117)  p-isopropyltoluene
            2.908 2.974 2.979 2.831 2.896 2.650 2.859 2.926 2.569   2.843    5.00
118)  1,4-dichlorobenzene
            1.647 1.664 1.936 1.651 1.685 1.618 1.636 1.699 1.505   1.671    6.83
119)  Benzyl Chloride
            1.497 1.628 1.405 1.557 1.551 1.370 1.523 1.591 1.632   1.528    6.00
120)  p-diethylbenzene
            1.744 1.825       1.704 1.762 1.445 1.745 1.722 1.684   1.704    6.63
121)  1,2-dichlorobenzene
            1.593 1.629 2.018 1.576 1.582 1.568 1.523 1.675 1.481   1.627    9.65
122)  n-butylbenzene
            1.594 1.583 1.733 1.559 1.604 1.419 1.598 1.585 1.381   1.562    6.70
123)  1,2,4,5-tetramethylbenzene
            2.719 2.802 2.910 2.556 2.511 2.098 2.541 2.816 2.737   2.632    9.23
124)  1,2-dibromo-3-chloropropane
            0.187 0.197       0.158 0.153 0.218 0.156 0.190 0.172   0.179   12.94
125)  1,3,5-trichlorobenzene
            1.272 1.289 1.439 1.169 1.113 1.291 1.138 1.303 1.154   1.241    8.49
126)  1,2,4-trichlorobenzene
            0.990 0.993 1.231 0.960 0.917 0.983 0.910 1.120 0.951   1.006   10.36
127)  hexachlorobutadiene
            0.652 0.699       0.517 0.479 0.643 0.508 0.607 0.581   0.586   13.42
128)  naphthalene
            2.291 2.313       2.050 1.910 2.426 1.837 2.624 2.249   2.212   11.98
129)  1,2,3-trichlorobenzene
            0.895 0.881       0.744 0.676 0.821 0.639 0.965 0.856   0.810   14.01
130)  hexachloroethane
            0.527 0.531 0.619 0.516 0.533 0.527 0.541 0.557 0.494   0.538    6.47
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MD8379.M          Tue Feb 12 09:17:14 2013
```

6.9.1

6

Initial Calibration Verification

Job Number: JB29314 **Sample:** VD8380-ICV8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205400.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\d205400.D Vial: 3
Acq On : 12 Feb 2013 4:21 pm Operator: EmilyT
Sample : ICV8379-50 Inst : MSD
Misc : ms42807,vd8380,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Tue Feb 12 09:47:05 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	115	0.01	8.03
2	M	1,4-dioxane	0.095	0.093	2.1	134	0.00	11.89
3	M	tertiary butyl alcohol	1.065	1.077	-1.1	111	0.00	8.13
4	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	10.25
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.547	0.589	-7.7	112	0.00	4.57
7	M	dichlorodifluoromethane	0.670	0.616	8.1	89	0.00	4.55
8	M	chloromethane	0.746	0.638	14.5	88	0.00	4.92
9	M	vinyl chloride	0.757	0.674	11.0	87	0.00	5.19
10	M	bromomethane	0.424	0.412	2.8	93	0.00	5.87
11	M	chloroethane	0.425	0.385	9.4	93	0.00	6.05
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.803	0.758	5.6	92	0.00	6.57
14		pentane	0.874	0.862	1.4	105	0.00	6.65
15	M	ethyl ether	0.356	0.325	8.7	100	0.00	6.96
16	M	acrolein	0.143	0.125	12.6	98	0.00	7.19
17	M	chlorotrifluoroethene		----------NA----------				
18	M	2-chloropropane	1.048	0.958	8.6	99	0.00	7.16
19	M	1,1-dichloroethene	0.506	0.498	1.6	99	0.00	7.39
20	M	acetone	0.056	0.053	5.4	103	0.00	7.40
21	M	allyl chloride	1.209	1.336	-10.5	112	0.00	7.90
22	M	acetonitrile	0.028	0.024	14.3	100	0.02	7.83
23	M	acetaldehyde		----------NA----------				
24	M	iodomethane	0.896	0.939	-4.8	101	0.00	7.66
25	M	iso-butyl alcohol		----------NA----------				
26	M	carbon disulfide	1.741	1.765	-1.4	99	0.00	7.80
27	M	methylene chloride	0.622	0.590	5.1	102	0.00	8.07
28	M	1-chloropropane	1.049	0.981	6.5	102	0.00	8.14
29	M	methyl acetate	0.526	0.471	10.5	96	0.00	7.87
30	M	methyl tert butyl ether	1.694	1.712	-1.1	100	0.00	8.44
31	M	trans-1,2-dichloroethene	0.526	0.524	0.4	99	0.00	8.46
32	M	di-isopropyl ether	1.786	1.790	-0.2	99	0.00	9.03
33	M	ethyl tert-butyl ether	1.783	1.771	0.7	96	0.00	9.49
34	M	2-butanone	0.071	0.060	15.5	83	0.00	9.69
35	M	1,1-dichloroethane	0.941	0.967	-2.8	99	0.00	9.01
36	M	chloroprene	0.748	0.732	2.1	96	0.00	9.13
37	M	acrylonitrile	0.232	0.246	-6.0	106	0.00	8.37
38	M	vinyl acetate	0.113	0.121	-7.1	108	0.00	8.99
39	M	ethyl acetate	0.086	0.075	12.8	96	0.00	9.72
40	M	2,2-dichloropropane	0.693	0.813	-17.3	120	0.00	9.77
41	M	cis-1,2-dichloroethene	0.562	0.578	-2.8	102	0.00	9.74

Initial Calibration Verification

Job Number: JB29314 **Sample:** VD8380-ICV8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205400.D
Project: BMSMC, Building 5 Area, PR

42	M	propionitrile	0.091	0.094	-3.3	105	0.00	9.77
43	M	bromochloromethane	0.270	0.287	-6.3	102	0.00	10.03
44	M	tetrahydrofuran	0.086	0.083	3.5	100	0.00	10.10
45	M	chloroform	0.866	0.896	-3.5	101	0.00	10.09
46	S	dibromofluoromethane (s)	0.488	0.479	1.8	101	0.00	10.28
47	S	1,2-dichloroethane-d4 (s)	0.590	0.557	5.6	97	0.00	10.71
48	M	freon 113	0.354	0.336	5.1	93	0.00	7.37
49	M	methacrylonitrile	0.392	0.364	7.1	101	0.00	9.97
50	m	t-butyl formate	0.562	0.589	-4.8	102	0.00	10.16
51	M	1,1,1-trichloroethane	0.758	0.784	-3.4	101	0.00	10.39
52	M	tert-amyl methyl ether	1.764	1.725	2.2	99	0.00	10.86
53	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.17
54	M	cyclohexane	0.518	0.546	-5.4	102	0.00	10.48
55		tert amyl alcohol	0.016	0.015	9.4	99	0.00	10.65
56	M	2,2,4-trimethylpentane	1.245	1.280	-2.8	105	0.00	10.86
57	M	epichlorohydrin	0.042	0.043	-2.4	106	0.00	12.43
58	M	n-butyl alcohol	0.013	0.012	7.7	103	0.00	11.25
59	M	carbon tetrachloride	0.430	0.450	-4.7	101	0.00	10.59
60	M	1,1-dichloropropene	0.445	0.448	-0.7	100	0.00	10.55
61	M	hexane	0.409	0.407	0.5	104	0.00	8.79
62	M	benzene	1.325	1.326	-0.1	99	0.00	10.81
63	M	heptane	0.230	0.254	-10.4	111	0.00	11.02
64	M	isopropyl acetate	0.724	0.704	2.8	99	0.00	10.72
65	M	1,2-dichloroethane	0.445	0.459	-3.1	99	0.00	10.80
66		Ethyl Acrylate	0.501	0.451	10.0	92	0.00	11.51
67	M	trichloroethene	0.326	0.328	-0.6	97	0.00	11.52
68	M	2-nitropropane	0.977	0.967	1.0	101	0.00	12.31
69	M	2-chloroethyl vinyl ether	0.249	0.254	-2.0	100	0.00	12.31
70	M	methyl methacrylate	0.098	0.102	-4.1	99	0.00	11.78
71	M	tert-amyl ethyl ether	0.501	0.533	-6.3	103	0.00	11.72
72	M	1,2-dichloropropane	0.356	0.368	-3.4	99	0.00	11.78
73	M	methylcyclohexane	0.552	0.564	-2.2	100	0.00	11.78
74	M	dibromomethane	0.210	0.221	-5.2	100	0.00	11.93
75	M	bromodichloromethane	0.433	0.457	-5.5	99	0.00	12.06
76	M	cis-1,3-dichloropropene	0.561	0.599	-6.8	101	0.00	12.54
77	S	toluene-d8 (s)	1.212	1.222	-0.8	103	0.00	12.88
78	M	4-methyl-2-pentanone	0.156	0.160	-2.6	104	0.00	12.65
79	M	toluene	0.826	0.834	-1.0	98	0.00	12.96
80	M	3-methyl-1-butanol	0.012	0.012	0.0	104	0.00	12.64
81	M	trans-1,3-dichloropropene	0.530	0.566	-6.8	102	0.00	13.13
82	M	ethyl methacrylate	0.496	0.511	-3.0	101	0.00	13.14
83	M	1,1,2-trichloroethane	0.261	0.267	-2.3	101	0.00	13.36
84	M	2-hexanone	0.142	0.130	8.5	91	0.00	13.56
85	I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	14.51
86	M	tetrachloroethene	0.409	0.391	4.4	96	0.00	13.59
87	M	1,3-dichloropropane	0.600	0.606	-1.0	102	0.00	13.56
88	M	butyl acetate	0.264	0.265	-0.4	101	0.00	13.65
89	m	3,3-dimethyl-1-butanol	0.047	0.056	-19.1	130	0.00	13.73
90	M	dibromochloromethane	0.381	0.393	-3.1	100	0.00	13.84
91	M	1,2-dibromoethane	0.353	0.365	-3.4	101	0.00	14.02
92	M	chlorobenzene	1.016	1.011	0.5	99	0.00	14.55
93	M	1,1,1,2-tetrachloroethane	0.376	0.392	-4.3	101	0.00	14.60
94	M	ethylbenzene	1.766	1.724	2.4	99	0.00	14.61
95	M	m,p-xylene	0.704	0.671	4.7	99	0.00	14.73
96	M	o-xylene	0.698	0.687	1.6	100	0.00	15.20
97	M	styrene	1.176	1.191	-1.3	100	0.00	15.20
98	M	bromoform	0.295	0.305	-3.4	100	0.00	15.47

Initial Calibration Verification

Job Number: JB29314 **Sample:** VD8380-ICV8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205400.D
Project: BMSMC, Building 5 Area, PR

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	17.10
100	M	isopropylbenzene	2.987	2.915	2.4	100	0.00	15.58
101	S	4-bromofluorobenzene (s)	0.908	0.863	5.0	100	0.00	15.79
102	M	bromobenzene	0.812	0.783	3.6	98	0.00	16.01
103	M	cyclohexanone	0.023	0.016	30.4#	78	0.00	15.75
104	M	1,1,2,2-tetrachloroethane	0.921	0.847	8.0	100	0.00	15.88
105	M	trans-1,4-dichloro-2-bute	0.251	0.268	-6.8	106	0.00	15.93
106	M	1,2,3-trichloropropane	0.262	0.244	6.9	100	0.00	15.97
107	M	n-propylbenzene	3.560	3.372	5.3	99	0.00	16.04
108	M	p-ethyltoluene	2.852	2.649	7.1	98	0.00	16.16
109	M	2-chlorotoluene	0.742	0.727	2.0	100	0.00	16.20
110	M	4-chlorotoluene	2.324	2.211	4.9	99	0.00	16.30
111	M	1,3,5-trimethylbenzene	2.777	2.558	7.9	99	0.00	16.21
112	M	tert-butylbenzene	2.331	2.182	6.4	98	0.00	16.60
113	M	pentachloroethane	0.520	0.524	-0.8	103	0.00	16.67
114	M	1,2,4-trimethylbenzene	2.823	2.664	5.6	100	0.00	16.65
115	M	sec-butylbenzene	3.433	3.335	2.9	100	0.00	16.85
116	M	1,3-dichlorobenzene	1.601	1.540	3.8	99	0.00	17.03
117	M	p-isopropyltoluene	2.843	2.766	2.7	100	0.00	16.97
118	M	1,4-dichlorobenzene	1.671	1.604	4.0	99	0.00	17.12
119		Benzyl Chloride	1.528	2.052	-34.3#	135	0.00	17.24
120	M	p-diethylbenzene	1.704	1.640	3.8	98	0.00	17.39
121	M	1,2-dichlorobenzene	1.627	1.540	5.3	100	0.00	17.56
122	M	n-butylbenzene	1.562	1.565	-0.2	103	0.00	17.43
123	M	1,2,4,5-tetramethylbenzen	2.632	2.525	4.1	101	0.00	18.26
124	M	1,2-dibromo-3-chloropropa	0.179	0.161	10.1	105	0.00	18.40
125	M	1,3,5-trichlorobenzene	1.241	1.188	4.3	104	0.00	18.64
126	M	1,2,4-trichlorobenzene	1.006	0.981	2.5	105	0.00	19.37
127	M	hexachlorobutadiene	0.586	0.548	6.5	108	0.00	19.52
128	M	naphthalene	2.212	2.054	7.1	102	0.00	19.69
129	M	1,2,3-trichlorobenzene	0.810	0.760	6.2	104	0.00	19.97
130	M	hexachloroethane	0.538	0.525	2.4	104	0.00	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d205391.D MD8379.M Tue Feb 12 16:48:55 2013

6.9.2

6

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8399-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205879.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\d205879.D Vial: 2
Acq On : 26 Feb 2013 10:24 am Operator: EmilyT
Sample : cc8379-20 Inst : MSD
Misc : ms43452,vd8399,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Tue Feb 19 09:53:02 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	113	0.00	8.01
2	M	1,4-dioxane	0.095	0.101	-6.3	115	0.00	11.88
3	M	tertiary butyl alcohol	1.065	1.176	-10.4	115	0.00	8.12
4	I	pentafluorobenzene	1.000	1.000	0.0	121	0.00	10.25
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.547	0.543	0.7	119	0.00	4.57
7	M	dichlorodifluoromethane	0.670	0.921	-37.5#	155	0.00	4.55
8	M	chloromethane	0.746	0.729	2.3	116	0.00	4.91
9	M	vinyl chloride	0.757	0.778	-2.8	118	0.01	5.21
10	M	bromomethane	0.424	0.454	-7.1	115	0.00	5.87
11	M	chloroethane	0.425	0.398	6.4	110	0.00	6.04
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.803	0.943	-17.4	133	0.00	6.57
14		pentane		----------NA----------				
15	M	ethyl ether	0.356	0.344	3.4	120	0.00	6.95
16	M	acrolein	0.143	0.138	3.5	118	0.00	7.17
17	M	chlorotrifluoroethene		----------NA----------				
18	M	2-chloropropane	1.048	1.067	-1.8	129	0.00	7.15
19	M	1,1-dichloroethene	0.506	0.522	-3.2	122	0.00	7.39
20	M	acetone	0.056	0.061	-8.9	121	0.00	7.40
21	M	allyl chloride	1.209	1.142	5.5	105	0.00	7.89
22	M	acetonitrile	0.028	0.036	-28.6#	159	0.01	7.82
23	M	acetaldehyde		----------NA----------				
24	M	iodomethane	0.896	0.942	-5.1	119	0.00	7.65
25	M	iso-butyl alcohol		----------NA----------				
26	M	carbon disulfide	1.741	1.857	-6.7	123	-0.01	7.78
27	M	methylene chloride	0.622	0.602	3.2	119	0.00	8.07
28	M	1-chloropropane	1.049	1.005	4.2	119	0.00	8.12
29	M	methyl acetate	0.526	0.477	9.3	109	0.00	7.86
30	M	methyl tert butyl ether	1.694	1.773	-4.7	117	0.00	8.43
31	M	trans-1,2-dichloroethene	0.526	0.561	-6.7	126	0.00	8.45
32	M	di-isopropyl ether	1.786	1.825	-2.2	117	-0.01	9.02
33	M	ethyl tert-butyl ether	1.783	1.844	-3.4	116	0.00	9.48
34	M	2-butanone	0.071	0.070	1.4	109	0.00	9.69
35	M	1,1-dichloroethane	0.941	1.025	-8.9	123	0.00	9.00
36	M	chloroprene	0.748	0.762	-1.9	116	0.00	9.12
37	M	acrylonitrile	0.232	0.240	-3.4	114	0.00	8.37
38	M	vinyl acetate	0.113	0.103	8.8	107	0.00	8.99
39	M	ethyl acetate	0.086	0.082	4.7	109	0.00	9.72
40	M	2,2-dichloropropane	0.693	0.888	-28.1#	150	0.00	9.77
41	M	cis-1,2-dichloroethene	0.562	0.603	-7.3	123	0.00	9.72

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8399-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205879.D
Project: BMSMC, Building 5 Area, PR

42	M	propionitrile	0.091	0.094	-3.3	112	0.00	9.77
43	M	bromochloromethane	0.270	0.292	-8.1	122	0.00	10.03
44	M	tetrahydrofuran	0.086	0.084	2.3	116	0.00	10.09
45	M	chloroform	0.866	0.965	-11.4	125	0.00	10.09
46	S	dibromofluoromethane (s)	0.488	0.478	2.0	115	0.00	10.28
47	S	1,2-dichloroethane-d4 (s)	0.590	0.589	0.2	114	0.00	10.70
48	M	freon 113	0.354	0.381	-7.6	128	0.00	7.38
49	M	methacrylonitrile	0.392	0.375	4.3	111	0.00	9.96
50	m	t-butyl formate	0.562	0.546	2.8	111	0.00	10.15
51	M	1,1,1-trichloroethane	0.758	0.864	-14.0	129	0.00	10.38
52	M	tert-amyl methyl ether	1.764	1.737	1.5	114	0.00	10.86
53	I	1,4-difluorobenzene	1.000	1.000	0.0	119	0.00	11.16
54	M	cyclohexane	0.518	0.596	-15.1	134	0.00	10.48
55		tert amyl alcohol		----------NA----------				
56	M	2,2,4-trimethylpentane	1.245	1.387	-11.4	129	0.00	10.86
57	M	epichlorohydrin	0.042	0.042	0.0	109	0.00	12.42
58	M	n-butyl alcohol	0.013	0.012	7.7	108	0.00	11.25
59	M	carbon tetrachloride	0.430	0.488	-13.5	130	0.00	10.59
60	M	1,1-dichloropropene	0.445	0.485	-9.0	123	0.00	10.55
61	M	hexane	0.409	0.391	4.4	118	0.00	8.79
62	M	benzene	1.325	1.407	-6.2	120	0.00	10.81
63	M	heptane	0.230	0.256	-11.3	131	0.00	11.01
64	M	isopropyl acetate	0.724	0.678	6.4	109	0.00	10.72
65	M	1,2-dichloroethane	0.445	0.491	-10.3	119	0.00	10.79
66		Ethyl Acrylate		----------NA----------				
67	M	trichloroethene	0.326	0.348	-6.7	120	0.00	11.51
68	M	2-nitropropane	0.977	0.935	4.3	110	0.00	12.31
69	M	2-chloroethyl vinyl ether	0.249	0.244	2.0	110	0.00	12.31
70	M	methyl methacrylate	0.098	0.095	3.1	108	0.00	11.78
71	M	tert-amyl ethyl ether		----------NA----------				
72	M	1,2-dichloropropane	0.356	0.371	-4.2	116	0.00	11.78
73	M	methylcyclohexane	0.552	0.606	-9.8	130	0.00	11.78
74	M	dibromomethane	0.210	0.221	-5.2	114	0.00	11.92
75	M	bromodichloromethane	0.433	0.462	-6.7	115	0.00	12.05
76	M	cis-1,3-dichloropropene	0.561	0.592	-5.5	114	0.00	12.54
77	S	toluene-d8 (s)	1.212	1.203	0.7	116	0.00	12.87
78	M	4-methyl-2-pentanone	0.156	0.157	-0.6	113	0.00	12.65
79	M	toluene	0.826	0.866	-4.8	118	0.00	12.95
80	M	3-methyl-1-butanol	0.012	0.011	8.3	97	0.00	12.64
81	M	trans-1,3-dichloropropene	0.530	0.557	-5.1	115	0.00	13.12
82	M	ethyl methacrylate	0.496	0.498	-0.4	111	0.00	13.14
83	M	1,1,2-trichloroethane	0.261	0.270	-3.4	116	0.00	13.36
84	M	2-hexanone	0.142	0.146	-2.8	111	0.00	13.56
85	I	chlorobenzene-d5	1.000	1.000	0.0	122	0.00	14.50
86	M	tetrachloroethene	0.409	0.413	-1.0	118	0.00	13.58
87	M	1,3-dichloropropane	0.600	0.619	-3.2	115	0.00	13.56
88	M	butyl acetate	0.264	0.267	-1.1	114	0.00	13.65
89	m	3,3-dimethyl-1-butanol	0.047	0.037	21.3#	91	0.00	13.73
90	M	dibromochloromethane	0.381	0.385	-1.0	116	0.00	13.84
91	M	1,2-dibromoethane	0.353	0.370	-4.8	116	0.00	14.02
92	M	chlorobenzene	1.016	1.040	-2.4	118	0.00	14.54
93	M	1,1,1,2-tetrachloroethane	0.376	0.382	-1.6	115	0.00	14.60
94	M	ethylbenzene	1.766	1.816	-2.8	122	0.00	14.61
95	M	m,p-xylene	0.704	0.704	0.0	122	0.00	14.73
96	M	o-xylene	0.698	0.697	0.1	119	0.00	15.19
97	M	styrene	1.176	1.166	0.9	114	0.00	15.20
98	M	bromoform	0.295	0.289	2.0	114	0.00	15.46

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8399-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205879.D
Project: BMSMC, Building 5 Area, PR

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	17.09
100	M	isopropylbenzene	2.987	3.074	-2.9	121	0.00	15.58
101	S	4-bromofluorobenzene (s)	0.908	0.885	2.5	116	0.00	15.79
102	M	bromobenzene	0.812	0.824	-1.5	118	0.00	16.01
103	M	cyclohexanone	0.023	0.026	-13.0	116	0.00	15.74
104	M	1,1,2,2-tetrachloroethane	0.921	0.858	6.8	112	0.00	15.87
105	M	trans-1,4-dichloro-2-bute	0.251	0.269	-7.2	120	0.00	15.92
106	M	1,2,3-trichloropropane	0.262	0.257	1.9	118	0.00	15.97
107	M	n-propylbenzene	3.560	3.649	-2.5	124	0.00	16.03
108	M	p-ethyltoluene		----------NA----------				
109	M	2-chlorotoluene	0.742	0.751	-1.2	118	0.00	16.19
110	M	4-chlorotoluene	2.324	2.334	-0.4	121	0.00	16.30
111	M	1,3,5-trimethylbenzene	2.777	2.654	4.4	119	0.00	16.20
112	M	tert-butylbenzene	2.331	2.273	2.5	115	0.00	16.60
113	M	pentachloroethane	0.520	0.512	1.5	113	0.00	16.67
114	M	1,2,4-trimethylbenzene	2.823	2.711	4.0	116	0.00	16.64
115	M	sec-butylbenzene	3.433	3.475	-1.2	121	0.00	16.84
116	M	1,3-dichlorobenzene	1.601	1.590	0.7	118	0.00	17.03
117	M	p-isopropyltoluene	2.843	2.847	-0.1	117	0.00	16.97
118	M	1,4-dichlorobenzene	1.671	1.648	1.4	117	0.00	17.12
119		Benzyl Chloride	1.528	1.756	-14.9	133	0.00	17.24
120	M	p-diethylbenzene		----------NA----------				
121	M	1,2-dichlorobenzene	1.627	1.571	3.4	113	0.00	17.56
122	M	n-butylbenzene	1.562	1.521	2.6	116	0.00	17.43
123	M	1,2,4,5-tetramethylbenzen		----------NA----------				
124	M	1,2-dibromo-3-chloropropa	0.179	0.159	11.2	101	0.00	18.39
125	M	1,3,5-trichlorobenzene	1.241	1.273	-2.6	118	0.00	18.63
126	M	1,2,4-trichlorobenzene	1.006	1.065	-5.9	115	0.00	19.36
127	M	hexachlorobutadiene	0.586	0.629	-7.3	125	0.00	19.51
128	M	naphthalene	2.212	2.237	-1.1	103	0.00	19.68
129	M	1,2,3-trichlorobenzene	0.810	0.860	-6.2	108	0.00	19.96
130	M	hexachloroethane	0.538	0.521	3.2	113	0.00	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d205390.D MD8379.M Tue Feb 26 17:00:11 2013

6.9.3

6

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8401-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205927.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\d205927.D Vial: 2
Acq On : 27 Feb 2013 12:22 pm Operator: EmilyT
Sample : cc8379-20 Inst : MSD
Misc : ms43545,vd8401,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Tue Feb 19 09:53:02 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	106	0.00	8.02
2	M	1,4-dioxane	0.095	0.080	15.8	85	0.00	11.89
3	M	tertiary butyl alcohol	1.065	1.135	-6.6	104	0.01	8.14
4	I	pentafluorobenzene	1.000	1.000	0.0	117	0.00	10.25
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.547	0.471	13.9	100	0.00	4.57
7	M	dichlorodifluoromethane	0.670	0.826	-23.3#	135	0.00	4.55
8	M	chloromethane	0.746	0.720	3.5	111	0.00	4.90
9	M	vinyl chloride	0.757	0.753	0.5	111	-0.01	5.18
10	M	bromomethane	0.424	0.446	-5.2	109	0.00	5.87
11	M	chloroethane	0.425	0.394	7.3	105	0.00	6.05
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.803	0.884	-10.1	121	0.00	6.57
14		pentane		----------NA----------				
15	M	ethyl ether	0.356	0.341	4.2	115	0.00	6.95
16	M	acrolein	0.143	0.137	4.2	113	0.00	7.18
17	M	chlorotrifluoroethene		----------NA----------				
18	M	2-chloropropane	1.048	1.030	1.7	120	0.00	7.16
19	M	1,1-dichloroethene	0.506	0.507	-0.2	115	0.00	7.39
20	M	acetone	0.056	0.060	-7.1	114	0.00	7.40
21	M	allyl chloride	1.209	1.113	7.9	99	0.00	7.90
22	M	acetonitrile	0.028	0.032	-14.3	136	0.02	7.83
23	M	acetaldehyde		----------NA----------				
24	M	iodomethane	0.896	0.936	-4.5	114	0.00	7.65
25	M	iso-butyl alcohol		----------NA----------				
26	M	carbon disulfide	1.741	1.823	-4.7	116	0.00	7.80
27	M	methylene chloride	0.622	0.603	3.1	115	0.00	8.07
28	M	1-chloropropane	1.049	1.000	4.7	114	0.00	8.13
29	M	methyl acetate	0.526	0.464	11.8	103	0.00	7.87
30	M	methyl tert butyl ether	1.694	1.802	-6.4	115	0.00	8.43
31	M	trans-1,2-dichloroethene	0.526	0.544	-3.4	118	0.00	8.46
32	M	di-isopropyl ether	1.786	1.813	-1.5	112	0.00	9.03
33	M	ethyl tert-butyl ether	1.783	1.847	-3.6	112	0.00	9.49
34	M	2-butanone	0.071	0.071	0.0	106	0.00	9.69
35	M	1,1-dichloroethane	0.941	0.999	-6.2	116	0.00	9.01
36	M	chloroprene	0.748	0.739	1.2	109	0.00	9.13
37	M	acrylonitrile	0.232	0.238	-2.6	109	0.00	8.37
38	M	vinyl acetate	0.113	0.100	11.5	100	0.00	8.99
39	M	ethyl acetate	0.086	0.081	5.8	103	0.00	9.72
40	M	2,2-dichloropropane	0.693	0.709	-2.3	115	0.00	9.77
41	M	cis-1,2-dichloroethene	0.562	0.596	-6.0	118	0.00	9.73

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8401-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205927.D
Project: BMSMC, Building 5 Area, PR

42	M	propionitrile	0.091	0.090	1.1	103	0.00	9.77
43	M	bromochloromethane	0.270	0.287	-6.3	116	0.00	10.03
44	M	tetrahydrofuran	0.086	0.082	4.7	108	0.00	10.09
45	M	chloroform	0.866	0.941	-8.7	118	0.00	10.09
46	S	dibromofluoromethane (s)	0.488	0.479	1.8	112	0.00	10.28
47	S	1,2-dichloroethane-d4 (s)	0.590	0.577	2.2	107	0.00	10.71
48	M	freon 113	0.354	0.333	5.9	108	0.00	7.38
49	M	methacrylonitrile	0.392	0.370	5.6	106	0.00	9.97
50	m	t-butyl formate	0.562	0.541	3.7	106	0.00	10.16
51	M	1,1,1-trichloroethane	0.758	0.840	-10.8	121	0.00	10.38
52	M	tert-amyl methyl ether	1.764	1.754	0.6	111	0.00	10.86
53	I	1,4-difluorobenzene	1.000	1.000	0.0	113	0.00	11.16
54	M	cyclohexane	0.518	0.540	-4.2	116	0.00	10.48
55		tert amyl alcohol		----------NA----------				
56	M	2,2,4-trimethylpentane	1.245	1.021	18.0	90	0.00	10.86
57	M	epichlorohydrin	0.042	0.038	9.5	95	0.00	12.42
58	M	n-butyl alcohol	0.013	0.011	15.4	94	0.00	11.25
59	M	carbon tetrachloride	0.430	0.464	-7.9	118	0.00	10.59
60	M	1,1-dichloropropene	0.445	0.463	-4.0	111	0.00	10.55
61	M	hexane	0.409	0.293	28.4#	84	0.00	8.79
62	M	benzene	1.325	1.376	-3.8	112	0.00	10.81
63	M	heptane	0.230	0.177	23.0#	86	0.00	11.01
64	M	isopropyl acetate	0.724	0.675	6.8	103	0.00	10.72
65	M	1,2-dichloroethane	0.445	0.479	-7.6	110	0.00	10.80
66		Ethyl Acrylate		----------NA----------				
67	M	trichloroethene	0.326	0.324	0.6	106	0.00	11.52
68	M	2-nitropropane	0.977	0.899	8.0	101	0.00	12.31
69	M	2-chloroethyl vinyl ether	0.249	0.233	6.4	101	0.00	12.31
70	M	methyl methacrylate	0.098	0.095	3.1	103	0.00	11.78
71	M	tert-amyl ethyl ether		----------NA----------				
72	M	1,2-dichloropropane	0.356	0.362	-1.7	108	0.00	11.78
73	M	methylcyclohexane	0.552	0.510	7.6	104	0.00	11.78
74	M	dibromomethane	0.210	0.221	-5.2	108	0.00	11.93
75	M	bromodichloromethane	0.433	0.457	-5.5	108	0.00	12.05
76	M	cis-1,3-dichloropropene	0.561	0.557	0.7	102	0.00	12.54
77	S	toluene-d8 (s)	1.212	1.210	0.2	111	0.00	12.88
78	M	4-methyl-2-pentanone	0.156	0.158	-1.3	108	0.00	12.65
79	M	toluene	0.826	0.841	-1.8	109	0.00	12.96
80	M	3-methyl-1-butanol	0.012	0.011	8.3	92	0.00	12.64
81	M	trans-1,3-dichloropropene	0.530	0.540	-1.9	106	0.00	13.13
82	M	ethyl methacrylate	0.496	0.494	0.4	104	0.00	13.14
83	M	1,1,2-trichloroethane	0.261	0.270	-3.4	110	0.00	13.36
84	M	2-hexanone	0.142	0.144	-1.4	104	0.00	13.56
85	I	chlorobenzene-d5	1.000	1.000	0.0	119	0.00	14.51
86	M	tetrachloroethene	0.409	0.388	5.1	108	0.00	13.59
87	M	1,3-dichloropropane	0.600	0.597	0.5	108	0.00	13.56
88	M	butyl acetate	0.264	0.267	-1.1	110	0.00	13.65
89	m	3,3-dimethyl-1-butanol	0.047	0.040	14.9	94	0.00	13.73
90	M	dibromochloromethane	0.381	0.382	-0.3	111	0.00	13.84
91	M	1,2-dibromoethane	0.353	0.360	-2.0	110	0.00	14.02
92	M	chlorobenzene	1.016	1.000	1.6	111	0.00	14.54
93	M	1,1,1,2-tetrachloroethane	0.376	0.371	1.3	109	0.00	14.60
94	M	ethylbenzene	1.766	1.722	2.5	112	0.00	14.61
95	M	m,p-xylene	0.704	0.669	5.0	112	0.00	14.73
96	M	o-xylene	0.698	0.668	4.3	111	0.00	15.19
97	M	styrene	1.176	1.125	4.3	107	0.00	15.20
98	M	bromoform	0.295	0.292	1.0	112	0.00	15.47

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VD8401-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205927.D
Project: BMSMC, Building 5 Area, PR

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	17.09
100	M	isopropylbenzene	2.987	2.905	2.7	110	0.00	15.58
101	S	4-bromofluorobenzene (s)	0.908	0.880	3.1	111	0.00	15.79
102	M	bromobenzene	0.812	0.799	1.6	110	0.00	16.01
103	M	cyclohexanone	0.023	0.024	-4.3	102	0.00	15.74
104	M	1,1,2,2-tetrachloroethane	0.921	0.868	5.8	109	0.00	15.87
105	M	trans-1,4-dichloro-2-bute	0.251	0.247	1.6	106	0.00	15.93
106	M	1,2,3-trichloropropane	0.262	0.249	5.0	110	0.00	15.97
107	M	n-propylbenzene	3.560	3.344	6.1	110	0.00	16.04
108	M	p-ethyltoluene		----------NA----------				
109	M	2-chlorotoluene	0.742	0.710	4.3	107	0.00	16.19
110	M	4-chlorotoluene	2.324	2.152	7.4	107	0.00	16.30
111	M	1,3,5-trimethylbenzene	2.777	2.518	9.3	109	0.00	16.20
112	M	tert-butylbenzene	2.331	2.073	11.1	101	0.00	16.60
113	M	pentachloroethane	0.520	0.504	3.1	107	0.00	16.67
114	M	1,2,4-trimethylbenzene	2.823	2.580	8.6	107	0.00	16.65
115	M	sec-butylbenzene	3.433	3.117	9.2	104	0.00	16.84
116	M	1,3-dichlorobenzene	1.601	1.491	6.9	106	0.00	17.03
117	M	p-isopropyltoluene	2.843	2.577	9.4	103	0.00	16.97
118	M	1,4-dichlorobenzene	1.671	1.534	8.2	105	0.00	17.12
119		Benzyl Chloride	1.528	1.219	20.2#	89	0.00	17.24
120	M	p-diethylbenzene		----------NA----------				
121	M	1,2-dichlorobenzene	1.627	1.490	8.4	104	0.00	17.56
122	M	n-butylbenzene	1.562	1.330	14.9	98	0.00	17.43
123	M	1,2,4,5-tetramethylbenzen		----------NA----------				
124	M	1,2-dibromo-3-chloropropa	0.179	0.156	12.8	95	0.00	18.40
125	M	1,3,5-trichlorobenzene	1.241	1.171	5.6	105	0.00	18.64
126	M	1,2,4-trichlorobenzene	1.006	0.999	0.7	104	0.00	19.37
127	M	hexachlorobutadiene	0.586	0.530	9.6	102	0.00	19.52
128	M	naphthalene	2.212	2.200	0.5	98	0.00	19.68
129	M	1,2,3-trichlorobenzene	0.810	0.817	-0.9	99	0.00	19.97
130	M	hexachloroethane	0.538	0.485	9.9	101	0.00	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d205390.D MD8379.M Wed Feb 27 16:15:27 2013

6.9.4

6

Initial Calibration Summary

Job Number: JB29314 **Sample:** VI7342-ICC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181805.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSI

```
Method       : C:\MSDCHEM\1\METHODS\MI7342.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration

Calibration Files
0.5 =I181797.D   1   =I181798.D   2   =I181799.D   5   =I181800.D
10  =I181801.D   20  =I181802.D   50  =I181805.D   100 =I181804.D
200 =I181803.D       =
```

Compound	0.5	1	2	5	10	20	50	100	200	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol	0.124	0.127	0.112	0.116	0.115	0.105	0.111	0.100		0.114	7.81
3) iso-butyl alcohol			0.030	0.036	0.033	0.029	0.033	0.029		0.032	8.71
4) 1,4-dioxane	0.009	0.009	0.008	0.010	0.009	0.009	0.009	0.009		0.009#	4.40
5) I pentafluorobenzene ----------ISTD----------											
6) chlorodifluoromethane	0.444	0.422	0.424	0.434	0.382	0.392	0.396	0.381		0.410	5.99
7) dichlorodifluoromethane	0.559	0.550	0.582	0.663	0.591	0.582	0.619	0.577		0.590	6.08
8) chloromethane		0.596	0.547	0.584	0.542	0.527	0.545	0.499		0.549	6.00
9) vinyl chloride	0.573	0.530	0.549	0.605	0.554	0.540	0.569	0.521		0.555	4.85
10) bromomethane		0.382	0.357	0.373	0.360	0.339	0.361	0.337		0.359	4.59
11) chloroethane	0.299	0.269	0.244	0.255	0.247	0.234	0.243	0.226		0.252	9.11
12) trichlorofluoromethane	0.580	0.611	0.647	0.699	0.654	0.640	0.671	0.632		0.642	5.66
13) ethyl ether			0.180	0.180	0.171	0.167	0.172	0.161		0.172	4.40
14) acrolein	0.050	0.053	0.046	0.047	0.046	0.046	0.047			0.048	5.50
15) freon 113	0.197	0.198	0.243	0.260	0.282	0.258	0.268	0.273	0.262	0.249	12.54
16) 1,1-dichloroethene	0.469	0.443	0.480	0.495	0.532	0.508	0.522	0.527	0.505	0.498	5.89
17) acetone				0.026	0.021	0.021	0.020	0.019		0.021	12.26
18) iodomethane	0.626	0.600	0.673	0.653	0.729	0.684	0.702	0.716	0.682	0.674	6.17
19) carbon disulfide	1.133	1.096	1.221	1.221	1.338	1.242	1.292	1.315	1.255	1.235	6.46
20) methyl acetate			0.037	0.039	0.037	0.040	0.042	0.039		0.039	4.68
21) allyl chloride	0.187	0.203	0.202	0.210	0.202	0.201	0.207	0.200		0.202	3.33
22) acetonitrile	0.080	0.078	0.078	0.074	0.082	0.076	0.078	0.080	0.076	0.078	2.88
23) methylene chloride											

```
                                0.719 0.611 0.460 0.411 0.396 0.375   0.495   27.96
             ----- Linear regression -----  Coefficient =  0.9997
               Response Ratio = 0.04379 + 0.36624 *A

24)  methyl tert butyl ether
           0.930 1.113 1.040 0.907 0.958 0.898 0.925 0.964 0.901   0.960    7.56
25)  acrylonitrile
           0.078 0.074 0.085 0.079 0.082 0.077 0.083 0.086 0.081   0.081    4.91
26)  trans-1,2-dichloroethene
                  0.531 0.433 0.392 0.406 0.383 0.386 0.395 0.377   0.413   12.27
27)  hexane
                                0.480 0.453 0.366 0.351 0.336 0.327   0.386   16.77
             ----- Linear regression -----  Coefficient =  0.9998
               Response Ratio = 0.02266 + 0.32220 *A

28)  di-isopropyl ether
           0.999 1.141 1.129 1.051 1.091 1.042 1.048 1.072 1.022   1.066    4.42
29)  vinyl acetate
           0.217 0.196 0.206 0.190 0.218 0.205 0.206 0.212 0.201   0.206    4.58
30)  1,1-dichloroethane
           0.611 0.585 0.608 0.611 0.666 0.628 0.638 0.659 0.624   0.626    4.10
31)  chloroprene
           0.447 0.428 0.429 0.459 0.503 0.470 0.488 0.490 0.478   0.466    5.81
32)  ethyl tert-butyl ether
           1.069 1.046 1.131 1.072 1.117 1.084 1.102 1.127 1.078   1.092    2.66
33)  2-butanone
                                      0.028 0.028 0.029 0.030 0.029   0.029    3.18
34)  ethyl acetate
                                0.026 0.039 0.035 0.033 0.033 0.030   0.033   13.42
35)  2,2-dichloropropane
           0.615 0.595 0.547 0.558 0.598 0.545 0.544 0.568 0.546   0.568    4.84
36)  cis-1,2-dichloroethene
           0.538 0.392 0.403 0.413 0.441 0.422 0.414 0.434 0.409   0.430   10.05
37)  methacrylonitrile
                                0.096 0.108 0.100 0.104 0.110 0.106   0.104    5.14
38)  propionitrile
                  0.028 0.030 0.030 0.031 0.030 0.032 0.033 0.032   0.031    5.87
39)  bromochloromethane
           0.166 0.184 0.193 0.177 0.196 0.187 0.190 0.198 0.188   0.187    5.38
40)  tetrahydrofuran
                                0.108 0.092 0.083 0.084 0.082 0.077   0.088   12.58
41)  chloroform
           0.696 0.685 0.700 0.641 0.699 0.659 0.661 0.689 0.658   0.677    3.20
42)  tert-Butyl Formate
           0.289 0.269 0.285 0.270 0.281 0.272 0.279 0.289 0.276   0.279    2.79
43)  dibromofluoromethane (s)
                                0.388 0.384 0.376 0.353 0.364 0.342   0.368    4.90
44)  1,1,1-trichloroethane
           0.566 0.571 0.568 0.563 0.622 0.581 0.587 0.612 0.587   0.584    3.56
45)  cyclohexane
           0.523 0.452 0.494 0.504 0.565 0.507 0.523 0.543 0.518   0.514    6.17

46) I   1,4-difluorobenzene   ----------------ISTD---------------------
47)   1,2-dichloroethane-d4 (s)
                                0.267 0.259 0.256 0.240 0.252 0.235   0.252    4.76
48)  1,1-dichloropropene
           0.369 0.323 0.345 0.346 0.383 0.345 0.357 0.376 0.354   0.355    5.17
49)  carbon tetrachloride
                  0.308 0.334 0.354 0.392 0.365 0.372 0.389 0.371   0.361    7.86
50)  isopropyl acetate
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VI7342-ICC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181805.D
Project: BMSMC, Building 5 Area, PR

```
                  0.068 0.080 0.074 0.077 0.074 0.077 0.082 0.078   0.076    5.67
51)  benzene
            1.116 1.076 1.072 1.054 1.151 1.090 1.098 1.157 1.077   1.099    3.25
52)  2,2,4-trimethylpentane
            0.899 0.795 0.825 0.882 0.924 0.855 0.887 0.905 0.859   0.870    4.70
53)  tert-amyl methyl ether
            0.805 0.762 0.786 0.744 0.755 0.739 0.746 0.776 0.732   0.761    3.19
54)  1,2-dichloroethane
            0.288 0.295 0.302 0.292 0.311 0.293 0.301 0.319 0.302   0.300    3.23
55)  heptane
            0.223 0.184 0.179 0.175 0.183 0.164 0.170 0.175 0.168   0.180    9.62
56)  n-butyl alcohol
                              0.004 0.005 0.004 0.005 0.005 0.005   0.005#   7.26
57)  trichloroethene
            0.284 0.249 0.265 0.270 0.301 0.281 0.284 0.300 0.284   0.280    5.93
58)  ethyl acrylate
                                                                      0.000#  -1.00
59)  methyl methacrylate
                  0.138 0.141 0.122 0.130 0.121 0.123 0.135 0.126   0.129    5.94
60)  1,2-dichloropropane
            0.263 0.232 0.260 0.245 0.269 0.249 0.257 0.271 0.254   0.256    4.85
61)  methylcyclohexane
            0.409 0.364 0.404 0.411 0.445 0.408 0.423 0.433 0.417   0.413    5.49
62)  dibromomethane
            0.123 0.144 0.146 0.141 0.152 0.144 0.148 0.157 0.147   0.145    6.56
63)  bromodichloromethane
            0.325 0.340 0.341 0.330 0.355 0.340 0.347 0.368 0.349   0.344    3.72
64)  2-nitropropane
                              0.070 0.061 0.055 0.058 0.060 0.058   0.060    8.75
65)  2-chloroethyl vinyl ether
            0.061 0.057 0.063 0.062 0.065 0.056 0.062 0.063 0.063   0.061    4.94
66)  epichlorohydrin
                              0.015 0.016 0.015 0.015 0.016 0.015   0.016    2.53
67)  cis-1,3-dichloropropene
            0.432 0.395 0.406 0.390 0.418 0.401 0.404 0.428 0.404   0.409    3.52
68)  4-methyl-2-pentanone
                              0.060 0.064 0.062 0.066 0.070 0.067   0.065    5.52
69)  3-methyl-1-butanol
                        0.004 0.004 0.004 0.004 0.004 0.005 0.004   0.004#   4.81
70)  toluene
            1.204 1.057 1.126 1.107 1.200 1.133 1.144 1.209 1.137   1.146    4.40
71)  trans-1,3-dichloropropene
            0.390 0.373 0.344 0.336 0.353 0.335 0.342 0.365 0.341   0.353    5.36
72)  ethyl methacrylate
                  0.238 0.252 0.235 0.246 0.235 0.247 0.266 0.251   0.246    4.29
73)  1,1,2-trichloroethane
            0.168 0.173 0.180 0.160 0.173 0.163 0.167 0.177 0.167   0.170    3.82
74)  2-hexanone
                              0.051 0.053 0.053 0.057 0.060 0.057   0.055    6.15

75) I   chlorobenzene-d5      ----------------ISTD--------------------
76)  toluene-d8 (s)
                              1.072 1.184 1.245 1.181 1.217 1.133   1.172    5.26
77)  tetrachloroethene
            0.423 0.327 0.370 0.370 0.423 0.383 0.396 0.415 0.393   0.389    7.96
78)  1,3-dichloropropane
            0.433 0.367 0.380 0.347 0.386 0.364 0.374 0.396 0.367   0.379    6.47
79)  butyl acetate
                  0.149 0.145 0.129 0.130 0.124 0.126 0.134 0.125   0.133    6.88
80)  3,3-Dimethyl-1-Butanol
```

```
                  0.022 0.023 0.020 0.020 0.018 0.020 0.020 0.019   0.020    6.59
 81)  dibromochloromethane
            0.299 0.308 0.329 0.305 0.329 0.315 0.331 0.352 0.335   0.322    5.28
 82)  1,2-dibromoethane
            0.260 0.245 0.261 0.251 0.269 0.252 0.263 0.274 0.261   0.260    3.49
 83)  chlorobenzene
            0.998 0.827 0.933 0.868 0.953 0.895 0.919 0.957 0.898   0.916    5.61
 84)  1,1,1,2-tetrachloroethane
            0.335 0.320 0.329 0.315 0.353 0.333 0.342 0.359 0.339   0.336    4.24
 85)  ethylbenzene
            1.774 1.489 1.536 1.485 1.637 1.529 1.562 1.631 1.528   1.574    5.85
 86)  m,p-xylene
            0.661 0.541 0.566 0.572 0.650 0.592 0.607 0.633 0.591   0.602    6.69
 87)  o-xylene
            0.622 0.524 0.574 0.576 0.620 0.577 0.597 0.626 0.584   0.589    5.43
 88)  styrene
            1.082 0.917 0.994 0.947 1.030 0.976 1.005 1.060 0.995   1.000    5.19
 89)  bromoform
            0.187 0.189 0.197 0.191 0.211 0.203 0.221 0.236 0.228   0.207    8.70

 90) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 91)  4-bromofluorobenzene (s)
                              0.699 0.742 0.772 0.721 0.752 0.715   0.733    3.64
 92)  isopropylbenzene
            2.965 2.551 2.642 2.611 2.890 2.669 2.712 2.819 2.694   2.728    4.98
 93)  cyclohexanone
                              0.012 0.011 0.010 0.010 0.010 0.010   0.010    7.74
 94)  1,1,2,2-tetrachloroethane
            0.671 0.591 0.564 0.543 0.564 0.540 0.557 0.574 0.545   0.572    7.09
 95)  trans-1,4-dichloro-2-butene
            0.157 0.117 0.137 0.129 0.133 0.123 0.129 0.136 0.132   0.133    8.31
 96)  1,2,3-trichloropropane
            0.130 0.121 0.122 0.112 0.121 0.114 0.122 0.125 0.120   0.121    4.39
 97)  n-propylbenzene
            3.870 2.716 3.089 3.075 3.379 3.148 3.148 3.273 3.115   3.201    9.64
 98)  bromobenzene
            0.817 0.776 0.756 0.716 0.771 0.742 0.743 0.778 0.740   0.760    3.87
 99)  2-chlorotoluene
            0.839 0.652 0.665 0.661 0.724 0.674 0.682 0.702 0.668   0.696    8.31
100)  4-chlorotoluene
            2.349 1.877 1.928 1.875 2.056 1.943 1.963 2.044 1.938   1.997    7.32
101)  1,3,5-trimethylbenzene
            2.847 2.266 2.390 2.301 2.490 2.338 2.342 2.457 2.326   2.417    7.31
102)  tert-butylbenzene
            2.290 1.900 1.957 1.884 2.110 1.975 1.979 2.084 2.003   2.020    6.20
103)  pentachloroethane
            0.443 0.425 0.488 0.453 0.500 0.471 0.489 0.522 0.489   0.476    6.42
104)  1,2,4-trimethylbenzene
            3.183 2.441 2.383 2.289 2.511 2.358 2.349 2.502 2.362   2.486   10.91
105)  sec-butylbenzene
            3.509 2.773 2.993 2.984 3.302 3.036 3.068 3.212 3.031   3.101    6.86
106)  p-isopropyltoluene
                  2.442 2.615 2.465 2.755 2.560 2.559 2.704 2.540   2.580    4.19
107)  benzyl chloride
            1.374 1.109 1.114 1.098 1.061 1.022 1.001 1.089 1.073   1.105    9.78
108)  1,3-dichlorobenzene
            1.852 1.455 1.466 1.398 1.537 1.416 1.441 1.527 1.431   1.503    9.26
109)  1,4-dichlorobenzene
            1.951 1.518 1.488 1.422 1.521 1.418 1.452 1.533 1.439   1.527   10.81
110)  1,2-dichlorobenzene
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VI7342-ICC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181805.D
Project: BMSMC, Building 5 Area, PR

```
            1.706 1.340 1.391 1.323 1.418 1.339 1.357 1.431 1.329   1.404    8.54
111)  n-butylbenzene
                  1.196 1.280 1.296 1.418 1.334 1.340 1.414 1.333   1.326    5.46
112)  hexachloroethane
                        0.495 0.475 0.537 0.505 0.515 0.546 0.506   0.511    4.78
113)  1,2-dibromo-3-chloropropane
                  0.138 0.118 0.121 0.120 0.114 0.118 0.122 0.108   0.120    7.01
114)  1,3,5-Trichlorobenzene
                  1.320 1.221 1.187 1.261 1.174 1.193 1.242 1.103   1.213    5.33
115)  1,2,4-trichlorobenzene
                  1.017 1.017 0.972 1.046 0.990 1.020 1.052 0.917   1.004    4.38
116)  hexachlorobutadiene
                  0.676 0.732 0.670 0.760 0.690 0.668 0.701 0.613   0.689    6.45
117)  naphthalene
                  1.941 1.885 1.699 1.826 1.727 1.816 1.828 1.564   1.786    6.64
118)  1,2,3-trichlorobenzene
                  0.966 0.883 0.849 0.918 0.869 0.885 0.888 0.756   0.877    6.88
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MI7342.M          Wed Mar 13 10:56:25 2013   RPT1
```

6.9.5

6

Initial Calibration Verification

Job Number: JB29314 **Sample:** VI7342-ICV7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181807.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI7342\I181807.D Vial: 28
Acq On : 27 Feb 2013 12:36 am Operator: SCOTTM
Sample : ICV7342-50 Inst : MSI
Misc : MS43614,VI7342,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7342.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Mar 13 10:49:27 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	94	0.00	7.22
2	tertiary butyl alcohol	0.114	0.114	0.0	103	0.00	7.34
3	iso-butyl alcohol	0.032	0.027	15.6	86	0.00	10.01
4	1,4-dioxane	0.009	0.010#	-11.1	102	0.00	11.11
5 I	pentafluorobenzene	1.000	1.000	0.0	96	0.00	9.47
6	chlorodifluoromethane	0.410	0.422	-2.9	103	0.00	3.79
7	dichlorodifluoromethane	0.590	0.516	12.5	85	0.00	3.76
8	chloromethane	0.549	0.486	11.5	88	0.00	4.13
9	vinyl chloride	0.555	0.484	12.8	86	0.00	4.37
10	bromomethane	0.359	0.327	8.9	92	0.00	5.02
11	chloroethane	0.252	0.212	15.9	86	0.00	5.20
12	trichlorofluoromethane	0.642	0.572	10.9	85	0.00	5.65
13	ethyl ether	0.172	0.170	1.2	98	0.00	6.09
14	acrolein	0.048	0.046	4.2	96	0.00	6.34
15	freon 113	0.249	0.232	6.8	83	0.00	6.48
16	1,1-dichloroethene	0.498	0.468	6.0	86	0.00	6.50
17	acetone	0.021	0.022	-4.8	100	0.00	6.57
18	iodomethane	0.674	0.663	1.6	90	0.00	6.78
19	carbon disulfide	1.235	1.153	6.6	85	0.00	6.90
20	methyl acetate	0.039	0.041	-5.1	98	0.00	7.04
21	allyl chloride	0.202	0.191	5.4	91	0.00	7.04
22	acetonitrile	0.078	0.077	1.3	94	0.00	7.04
	----------	True	Calc.	% Drift	----------		
23	methylene chloride	50.000	49.663	0.7	95	0.00	7.24
	----------	AvgRF	CCRF	% Dev	----------		
24	methyl tert butyl ether	0.960	0.938	5.3	91	0.00	7.58
25	acrylonitrile	0.081	0.088	-8.6	101	0.00	7.57
26	trans-1,2-dichloroethene	0.413	0.363	12.1	90	0.00	7.62
	----------	True	Calc.	% Drift	----------		
27	hexane	50.000	56.822	-13.6	106	0.00	7.93
	----------	AvgRF	CCRF	% Dev	----------		
28	di-isopropyl ether	1.066	1.078	-1.1	98	0.00	8.19
29	vinyl acetate	0.206	0.198	3.9	92	0.00	8.19
30	1,1-dichloroethane	0.626	0.611	2.4	92	0.00	8.19
31	chloroprene	0.466	0.470	-0.9	92	0.00	8.30
32	ethyl tert-butyl ether	1.092	1.096	-0.4	95	0.00	8.66
33	2-butanone	0.029	0.031	-6.9	101	0.00	8.91

Initial Calibration Verification

Job Number: JB29314 **Sample:** VI7342-ICV7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181807.D
Project: BMSMC, Building 5 Area, PR

34		ethyl acetate	0.033	0.034	-3.0	101	0.00	8.94
35		2,2-dichloropropane	0.568	0.496	12.7	87	0.00	8.94
36		cis-1,2-dichloroethene	0.430	0.408	5.1	94	0.00	8.94
37		methacrylonitrile	0.104	0.107	-2.9	99	0.00	9.19
38		propionitrile	0.031	0.034	-9.7	102	0.00	9.01
39		bromochloromethane	0.187	0.191	-2.1	96	0.00	9.25
40		tetrahydrofuran	0.088	0.087	1.1	99	0.00	9.29
41		chloroform	0.677	0.648	4.3	94	0.00	9.31
42		tert-Butyl Formate	0.279	0.298	-6.8	102	0.00	9.35
43	S	dibromofluoromethane (s)	0.368	0.355	3.5	96	0.00	9.51
44		1,1,1-trichloroethane	0.584	0.542	7.2	88	0.00	9.57
45		cyclohexane	0.514	0.462	10.1	85	0.00	9.64
46	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	10.39
47	s	1,2-dichloroethane-d4 (s	0.252	0.249	1.2	100	0.00	9.94
48		1,1-dichloropropene	0.355	0.327	7.9	88	0.00	9.75
49		carbon tetrachloride	0.361	0.338	6.4	87	0.02	9.77
50		isopropyl acetate	0.076	0.082	-7.9	103	0.00	9.95
51		benzene	1.099	1.060	3.5	93	0.00	10.01
52		2,2,4-trimethylpentane	0.870	0.813	6.6	88	0.00	10.02
53		tert-amyl methyl ether	0.761	0.753	1.1	97	0.00	10.05
54		1,2-dichloroethane	0.300	0.307	-2.3	98	0.00	10.03
55		heptane	0.180	0.168	6.7	95	0.00	10.19
56		n-butyl alcohol	0.005	0.005#	0.0	104	0.00	10.52
57		trichloroethene	0.280	0.269	3.9	91	0.00	10.73
59		methyl methacrylate	0.129	0.133	-3.1	104	0.00	11.01
60		1,2-dichloropropane	0.256	0.255	0.4	95	0.00	11.00
61		methylcyclohexane	0.413	0.400	3.1	91	0.00	10.95
62		dibromomethane	0.145	0.152	-4.8	98	0.00	11.16
63		bromodichloromethane	0.344	0.350	-1.7	97	0.00	11.29
64		2-nitropropane	0.060	0.061	-1.7	100	0.00	11.51
65		2-chloroethyl vinyl ether	0.061	0.069	-13.1	106	0.00	11.53
66		epichlorohydrin	0.016	0.017	-6.3	106	0.00	11.65
67		cis-1,3-dichloropropene	0.409	0.402	1.7	96	0.00	11.75
68		4-methyl-2-pentanone	0.065	0.069	-6.2	101	0.00	11.85
69		3-methyl-1-butanol	0.004	0.005#	-25.0#	100	0.00	11.87
70		toluene	1.146	1.095	4.5	92	0.00	12.11
71		trans-1,3-dichloropropene	0.353	0.345	2.3	97	0.00	12.31
72		ethyl methacrylate	0.246	0.256	-4.1	99	0.00	12.31
73		1,1,2-trichloroethane	0.170	0.171	-0.6	98	0.00	12.53
74		2-hexanone	0.055	0.059	-7.3	101	0.00	12.70
75	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	13.56
76	S	toluene-d8 (s)	1.172	1.126	3.9	92	0.00	12.04
77		tetrachloroethene	0.389	0.366	5.9	89	0.00	12.70
78		1,3-dichloropropane	0.379	0.380	-0.3	98	0.00	12.71
79		butyl acetate	0.133	0.132	0.8	101	0.00	12.78
80		3,3-Dimethyl-1-Butanol	0.020	0.021	-5.0	103	0.00	12.88
81		dibromochloromethane	0.322	0.336	-4.3	98	0.00	12.98
82		1,2-dibromoethane	0.260	0.268	-3.1	98	0.00	13.12
83		chlorobenzene	0.916	0.895	2.3	94	0.00	13.59
84		1,1,1,2-tetrachloroethane	0.336	0.338	-0.6	95	0.00	13.64
85		ethylbenzene	1.574	1.469	6.7	91	0.00	13.64
86		m,p-xylene	0.602	0.574	4.7	91	0.00	13.75
87		o-xylene	0.589	0.574	2.5	93	0.00	14.17
88		styrene	1.000	0.980	2.0	94	0.00	14.18
89		bromoform	0.207	0.224	-8.2	98	0.00	14.44
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	15.92
91	S	4-bromofluorobenzene (s)	0.733	0.713	2.7	96	0.00	14.72

Initial Calibration Verification

Job Number: JB29314 **Sample:** VI7342-ICV7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181807.D
Project: BMSMC, Building 5 Area, PR

92	isopropylbenzene	2.728	2.522	7.6	90	0.00	14.51
93	cyclohexanone	0.010	0.011	-10.0	100	0.00	14.68
94	1,1,2,2-tetrachloroethane	0.572	0.566	1.0	98	0.00	14.82
95	trans-1,4-dichloro-2-bute	0.133	0.132	0.8	99	0.00	14.86
96	1,2,3-trichloropropane	0.121	0.124	-2.5	98	0.00	14.89
97	n-propylbenzene	3.201	2.919	8.8	90	0.00	14.93
98	bromobenzene	0.760	0.732	3.7	95	0.00	14.91
99	2-chlorotoluene	0.696	0.646	7.2	92	0.00	15.07
100	4-chlorotoluene	1.997	1.866	6.6	92	0.00	15.18
101	1,3,5-trimethylbenzene	2.417	2.196	9.1	91	0.00	15.08
102	tert-butylbenzene	2.020	1.855	8.2	91	0.00	15.44
103	pentachloroethane	0.476	0.487	-2.3	97	0.00	15.52
104	1,2,4-trimethylbenzene	2.486	2.267	8.8	93	0.00	15.49
105	sec-butylbenzene	3.101	2.830	8.7	89	0.00	15.66
106	p-isopropyltoluene	2.580	2.383	7.6	90	0.00	15.79
107	benzyl chloride	1.105	1.025	7.2	99	0.00	16.07
108	1,3-dichlorobenzene	1.503	1.384	7.9	93	0.00	15.86
109	1,4-dichlorobenzene	1.527	1.414	7.4	94	0.00	15.95
110	1,2-dichlorobenzene	1.404	1.349	3.9	96	0.00	16.36
111	n-butylbenzene	1.326	1.225	7.6	89	0.00	16.23
112	hexachloroethane	0.511	0.486	4.9	91	0.00	16.63
113	1,2-dibromo-3-chloropropa	0.120	0.123	-2.5	101	0.00	17.18
114	1,3,5-Trichlorobenzene	1.213	1.127	7.1	91	0.00	17.38
115	1,2,4-trichlorobenzene	1.004	0.988	1.6	94	0.00	18.04
116	hexachlorobutadiene	0.689	0.634	8.0	92	0.00	18.16
117	naphthalene	1.786	1.844	-3.2	98	0.00	18.33
118	1,2,3-trichlorobenzene	0.877	0.884	-0.8	97	0.00	18.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I181805.D MI7342.M Wed Mar 13 11:07:16 2013 RPT1

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VI7353-CC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I182034.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VI7353\I182034.D          Vial: 3
Acq On    :  6 Mar 2013  10:31 am                   Operator: SCOTTM
Sample    : CC7342-50                               Inst    : MSI
Misc      : MS44166,VI7353,,,,,1                    Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MI7342.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Thu Feb 28 11:42:38 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	86	-0.02	7.21
2	tertiary butyl alcohol	0.114	0.106	7.0	87	-0.02	7.33
3	iso-butyl alcohol	0.032	0.041	-28.1#	121	0.00	10.00
4	1,4-dioxane	0.009	0.009#	0.0	90	0.00	11.11
5 I	pentafluorobenzene	1.000	1.000	0.0	83	0.00	9.47
6	chlorodifluoromethane	0.410	0.410	0.0	87	0.00	3.79
7	dichlorodifluoromethane	0.590	0.587	0.5	84	0.00	3.77
8	chloromethane	0.549	0.549	0.0	86	0.00	4.12
9	vinyl chloride	0.555	0.571	-2.9	88	0.00	4.37
10	bromomethane	0.359	0.367	-2.2	90	-0.01	5.01
11	chloroethane	0.252	0.245	2.8	87	0.00	5.19
12	trichlorofluoromethane	0.642	0.686	-6.9	89	-0.02	5.63
13	ethyl ether	0.172	0.175	-1.7	87	-0.01	6.08
14	acrolein	0.048	0.048	0.0	86	-0.01	6.33
15	freon 113	0.249	0.298	-19.7	92	0.00	6.47
16	1,1-dichloroethene	0.498	0.560	-12.4	89	-0.01	6.49
17	acetone	0.021	0.020	4.8	77	-0.02	6.55
18	iodomethane	0.674	0.732	-8.6	86	-0.01	6.77
19	carbon disulfide	1.235	1.357	-9.9	87	-0.01	6.89
20	methyl acetate	0.039	0.041	-5.1	85	-0.02	7.03
21	allyl chloride	0.202	0.213	-5.4	88	0.00	7.03
22	acetonitrile	0.078	0.083	-6.4	87	-0.01	7.03
	----------	True	Calc.	% Drift	----------		
23	methylene chloride	50.000	50.077	-0.2	83	0.00	7.23
	----------	AvgRF	CCRF	% Dev	----------		
24	methyl tert butyl ether	0.960	0.984	-2.5	88	-0.01	7.57
25	acrylonitrile	0.081	0.086	-6.2	86	-0.01	7.56
26	trans-1,2-dichloroethene	0.413	0.406	1.7	87	-0.01	7.61
	----------	True	Calc.	% Drift	----------		
27	hexane	50.000	51.616	-3.2	84	0.00	7.92
	----------	AvgRF	CCRF	% Dev	----------		
28	di-isopropyl ether	1.066	1.108	-3.9	88	0.00	8.18
29	vinyl acetate	0.206	0.214	-3.9	86	-0.01	8.18
30	1,1-dichloroethane	0.626	0.664	-6.1	86	-0.01	8.18
31	chloroprene	0.466	0.508	-9.0	86	-0.01	8.29
32	ethyl tert-butyl ether	1.092	1.176	-7.7	88	0.00	8.66
33	2-butanone	0.029	0.030	-3.4	87	0.00	8.91

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VI7353-CC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I182034.D
Project: BMSMC, Building 5 Area, PR

34		ethyl acetate	0.033	0.034	-3.0	86	0.00	8.93
35		2,2-dichloropropane	0.568	0.613	-7.9	94	-0.01	8.93
36		cis-1,2-dichloroethene	0.430	0.434	-0.9	87	0.00	8.93
37		methacrylonitrile	0.104	0.106	-1.9	85	0.00	9.18
38		propionitrile	0.031	0.033	-6.5	86	-0.01	9.00
39		bromochloromethane	0.187	0.197	-5.3	86	-0.01	9.25
40		tetrahydrofuran	0.088	0.085	3.4	84	-0.01	9.29
41		chloroform	0.677	0.693	-2.4	87	0.00	9.31
42		tert-Butyl Formate	0.279	0.295	-5.7	87	-0.01	9.34
43	S	dibromofluoromethane (s)	0.368	0.381	-3.5	90	0.00	9.51
44		1,1,1-trichloroethane	0.584	0.639	-9.4	90	0.00	9.56
45		cyclohexane	0.514	0.567	-10.3	90	0.00	9.63
46	I	1,4-difluorobenzene	1.000	1.000	0.0	84	0.00	10.39
47	s	1,2-dichloroethane-d4 (s	0.252	0.250	0.8	87	0.00	9.93
48		1,1-dichloropropene	0.355	0.374	-5.4	88	0.00	9.74
49		carbon tetrachloride	0.361	0.406	-12.5	91	0.01	9.76
50		isopropyl acetate	0.076	0.081	-6.6	88	0.00	9.94
51		benzene	1.099	1.135	-3.3	86	0.00	10.00
52		2,2,4-trimethylpentane	0.870	0.942	-8.3	89	0.00	10.01
53		tert-amyl methyl ether	0.761	0.789	-3.7	89	0.00	10.05
54		1,2-dichloroethane	0.300	0.316	-5.3	88	0.00	10.02
55		heptane	0.180	0.181	-0.6	89	0.00	10.19
56		n-butyl alcohol	0.005	0.005#	0.0	84	0.00	10.52
57		trichloroethene	0.280	0.297	-6.1	88	0.00	10.73
58		ethyl acrylate	0.000	0.362	0.0	0#	0.03	10.95
59		methyl methacrylate	0.129	0.131	-1.6	89	0.00	11.00
60		1,2-dichloropropane	0.256	0.264	-3.1	86	0.00	10.99
61		methylcyclohexane	0.413	0.455	-10.2	90	0.00	10.95
62		dibromomethane	0.145	0.152	-4.8	86	0.00	11.15
63		bromodichloromethane	0.344	0.358	-4.1	86	0.00	11.29
64		2-nitropropane	0.060	0.066	-10.0	95	0.00	11.51
65		2-chloroethyl vinyl ether	0.061	0.078	-27.9#	104	0.00	11.53
66		epichlorohydrin	0.016	0.016	0.0	90	0.00	11.65
67		cis-1,3-dichloropropene	0.409	0.426	-4.2	88	0.00	11.75
68		4-methyl-2-pentanone	0.065	0.068	-4.6	86	0.00	11.85
		----------	True	Calc.	% Drift	----------		
69		3-methyl-1-butanol	1000.000	1039.279	-3.9	87	0.00	11.87
		----------	AvgRF	CCRF	% Dev	----------		
70		toluene	1.146	1.214	-5.9	89	0.00	12.11
71		trans-1,3-dichloropropene	0.353	0.367	-4.0	90	0.00	12.31
72		ethyl methacrylate	0.246	0.251	-2.0	85	0.00	12.31
73		1,1,2-trichloroethane	0.170	0.178	-4.7	89	0.00	12.53
74		2-hexanone	0.055	0.059	-7.3	88	0.00	12.70
75	I	chlorobenzene-d5	1.000	1.000	0.0	90	0.00	13.55
76	S	toluene-d8 (s)	1.172	1.242	-6.0	94	0.00	12.04
77		tetrachloroethene	0.389	0.399	-2.6	90	0.00	12.70
78		1,3-dichloropropane	0.379	0.373	1.6	89	0.00	12.70
79		butyl acetate	0.133	0.130	2.3	92	0.00	12.78
80		3,3-Dimethyl-1-Butanol	0.020	0.019	5.0	83	0.00	12.87
81		dibromochloromethane	0.322	0.327	-1.6	89	0.00	12.97
82		1,2-dibromoethane	0.260	0.259	0.4	88	0.00	13.12
83		chlorobenzene	0.916	0.913	0.3	89	0.00	13.58
84		1,1,1,2-tetrachloroethane	0.336	0.334	0.6	88	0.00	13.65
85		ethylbenzene	1.574	1.570	0.3	90	0.00	13.64
86		m,p-xylene	0.602	0.609	-1.2	90	0.00	13.75
87		o-xylene	0.589	0.588	0.2	88	0.00	14.17

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VI7353-CC7342
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I182034.D
Project: BMSMC, Building 5 Area, PR

88		styrene	1.000	0.990	1.0	88	0.00	14.18
89		bromoform	0.207	0.218	-5.3	88	0.00	14.44
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	15.91
91	S	4-bromofluorobenzene (s)	0.733	0.758	-3.4	97	0.00	14.71
92		isopropylbenzene	2.728	2.639	3.3	89	0.00	14.51
93		cyclohexanone	0.010	0.013	-30.0#	119	0.00	14.67
94		1,1,2,2-tetrachloroethane	0.572	0.531	7.2	88	0.00	14.82
95		trans-1,4-dichloro-2-bute	0.133	0.131	1.5	94	0.00	14.86
96		1,2,3-trichloropropane	0.121	0.121	0.0	91	0.00	14.90
97		n-propylbenzene	3.201	3.110	2.8	91	0.00	14.93
98		bromobenzene	0.760	0.732	3.7	91	0.00	14.91
99		2-chlorotoluene	0.696	0.658	5.5	89	0.00	15.07
100		4-chlorotoluene	1.997	1.940	2.9	91	0.00	15.17
101		1,3,5-trimethylbenzene	2.417	2.284	5.5	90	0.00	15.08
102		tert-butylbenzene	2.020	1.924	4.8	89	0.00	15.44
103		pentachloroethane	0.476	0.468	1.7	88	0.00	15.52
104		1,2,4-trimethylbenzene	2.486	2.327	6.4	91	0.00	15.49
105		sec-butylbenzene	3.101	3.004	3.1	90	0.00	15.66
106		p-isopropyltoluene	2.580	2.519	2.4	90	0.00	15.79
107		benzyl chloride	1.105	1.143	-3.4	105	0.00	16.07
108		1,3-dichlorobenzene	1.503	1.412	6.1	90	0.00	15.86
109		1,4-dichlorobenzene	1.527	1.433	6.2	91	0.00	15.94
110		1,2-dichlorobenzene	1.404	1.320	6.0	89	0.00	16.35
111		n-butylbenzene	1.326	1.318	0.6	90	0.00	16.22
112		hexachloroethane	0.511	0.495	3.1	88	0.00	16.63
113		1,2-dibromo-3-chloropropa	0.120	0.109	9.2	85	0.00	17.18
114		1,3,5-Trichlorobenzene	1.213	1.147	5.4	88	0.00	17.37
115		1,2,4-trichlorobenzene	1.004	0.975	2.9	88	0.00	18.04
116		hexachlorobutadiene	0.689	0.651	5.5	90	0.00	18.16
117		naphthalene	1.786	1.701	4.8	86	0.00	18.33
118		1,2,3-trichlorobenzene	0.877	0.840	4.2	87	0.00	18.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I181805.D MI7342.M Wed Mar 06 14:41:38 2013 RPT1

Initial Calibration Summary

Job Number: JB29314 **Sample:** VO5870-ICC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133062.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSO

```
Method       : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title        : Method 624, ZB624 60mx0.25mmx1.4um
Last Update  : Thu Feb 07 12:53:50 2013
Response via : Initial Calibration

Calibration Files
1   =O133057.D   2   =O133058.D   100 =O133063.D   50  =O133062.D
20  =O133061.D   200 =O133064.D   5   =O133059.D   0.5 =O133056.D
10  =O133060.D       =
```

Compound	1	2	100	50	20	200	5	0.5	10	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol	0.887	0.844	0.878	0.856	0.946	0.872	0.837		0.874	0.874	3.85
3) ethanol										0.000#	-1.00
4) 1,4-dioxane			0.083	0.088	0.093	0.084	0.085		0.085	0.086	4.30
5) I pentafluorobenzene ----------ISTD----------											
6) chlorodifluoromethane			0.479	0.438	0.586	0.482	0.378		0.416	0.463	15.54
----- Linear regression ----- Coefficient = 0.9985											
Response Ratio = -0.00547 + 0.48226 *A											
7) dichlorodifluoromethane	0.491	0.484	0.626	0.537	0.569	0.638	0.449	0.511	0.527	0.537	11.89
8) chloromethane			0.558	0.485	0.498	0.563	0.417		0.454	0.496	11.60
9) vinyl chloride	0.458	0.443	0.591	0.508	0.526	0.579	0.429	0.497	0.481	0.501	11.31
10) bromomethane	0.297	0.270	0.247	0.246	0.270	0.237	0.239		0.256	0.258	7.87
11) chloroethane	0.178	0.199	0.255	0.228	0.235	0.176	0.189		0.215	0.209	13.64
12) vinyl bromide	0.268	0.270	0.349	0.302	0.324	0.339	0.260	0.247	0.288	0.294	12.43
13) trichlorofluoromethane	0.521	0.491	0.662	0.554	0.586	0.658	0.472		0.551	0.562	12.54
14) Pentane	0.508	0.466	0.563	0.485	0.508	0.551	0.403		0.462	0.493	10.46
15) ethyl ether		0.184	0.192	0.174	0.193	0.198	0.179		0.177	0.185	4.92
16) acrolein		0.051	0.069	0.060	0.061	0.070	0.051		0.055	0.060	13.14
17) 1,1-dichloroethene	0.321	0.278	0.345	0.299	0.315	0.350	0.259	0.312	0.292	0.308	9.60
18) acetone			0.110	0.099	0.105	0.104	0.126		0.090	0.105	11.39
19) allyl chloride	0.161	0.161	0.211	0.193	0.200	0.211	0.163		0.183	0.185	11.72
20) acetonitrile		0.023	0.028	0.026	0.026	0.027	0.024		0.023	0.025	8.44
21) iodomethane			0.401	0.357	0.339	0.344	0.256		0.310	0.334	14.52

Initial Calibration Summary

Job Number: JB29314 **Sample:** VO5870-ICC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133062.D
Project: BMSMC, Building 5 Area, PR

```
22)  iso-butyl alcohol
                                                                    0.000#  -1.00
23)  carbon disulfide
           1.067 0.954 1.212 1.042 1.097 1.218 0.895 1.096 1.028   1.068    9.95
24)  methylene chloride
                        0.368 0.331 0.353 0.373 0.396       0.385   0.367    6.32
25)  methyl acetate
                  0.184 0.262 0.231 0.235 0.253 0.218       0.209   0.227   11.63
26)  methyl tert butyl ether
           0.803 0.734 0.963 0.843 0.893 0.981 0.735 0.716 0.819   0.832   11.78
27)  trans-1,2-dichloroethene
           0.379 0.322 0.381 0.335 0.349 0.384 0.300 0.306 0.336   0.344    9.35
28)  di-isopropyl ether
           0.724 0.787 0.967 0.857 0.978 0.973 0.827 0.770 0.882   0.863   10.95
29)  2-butanone
                        0.049 0.042 0.043 0.047 0.041       0.036   0.043   10.63
30)  1,1-dichloroethane
           0.538 0.472 0.604 0.530 0.568 0.607 0.461 0.474 0.534   0.532   10.35
31)  chloroprene
           0.365 0.414 0.508 0.437 0.482 0.500 0.389       0.444   0.442   11.75
32)  acrylonitrile
                        0.126 0.109 0.108 0.123 0.098       0.100   0.111   10.40
33)  vinyl acetate
                        0.058 0.049 0.057 0.057 0.045       0.050   0.053    9.90
34)  ethyl tert-butyl ether
                  0.740 0.992 0.869 0.956 1.013 0.763 0.682 0.854   0.859   14.32
35)  ethyl acetate
                        0.047 0.042 0.046 0.045 0.035       0.040   0.042   10.16
36)  2,2-dichloropropane
           0.466 0.457 0.560 0.492 0.524 0.556 0.414 0.508 0.485   0.496    9.54
37)  cis-1,2-dichloroethene
           0.389 0.336 0.408 0.358 0.381 0.413 0.320 0.297 0.361   0.363   10.88
38)  methylacrylate
                  0.034 0.059 0.052 0.052 0.060 0.046       0.050   0.051   17.01
39)  propionitrile
           0.035 0.039 0.053 0.047 0.047 0.052 0.042       0.042   0.045   13.68
40)  bromochloromethane
           0.168 0.158 0.193 0.168 0.183 0.194 0.146 0.150 0.169   0.170   10.10
41)  tetrahydrofuran
           0.123 0.089 0.116 0.102 0.106 0.113 0.095       0.099   0.106   10.69
42)  chloroform
           0.373 0.342 0.412 0.367 0.395 0.419 0.319 0.399 0.363   0.377    8.75
43)  t-butyl formate
                  0.183 0.267 0.231 0.251 0.272 0.199       0.222   0.232   14.42
44)  dibromofluoromethane (s)
           0.362 0.325 0.348 0.315 0.330 0.362 0.284 0.419 0.329   0.342   11.08
45)  1,2-dichloroethane-d4 (s)
           0.440 0.382 0.355 0.325 0.351 0.363 0.334       0.351   0.363    9.83
46)  freon 113
           0.206 0.220 0.280 0.242 0.259 0.285 0.222       0.244   0.245   11.65
47)  methacrylonitrile
           0.136 0.154 0.190 0.169 0.174 0.190 0.149       0.157   0.165   11.71
48)  1,1,1-trichloroethane
           0.531 0.479 0.608 0.529 0.560 0.607 0.449 0.475 0.520   0.529   10.59
49)  Cyclohexane
           0.427 0.409 0.540 0.471 0.495 0.550 0.397       0.458   0.468   12.29

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  epichlorohydrin
           0.017 0.019 0.024 0.022 0.022 0.023 0.022       0.020   0.021   10.60
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VO5870-ICC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133062.D
Project: BMSMC, Building 5 Area, PR

52)	n-butyl alcohol										
			0.008	0.008	0.008	0.008	0.007		0.007	0.008#	6.57
53)	carbon tetrachloride										
		0.304	0.285	0.357	0.314	0.332	0.348	0.272	0.279	0.319	0.312	9.73
54)	1,1-dichloropropene										
		0.300	0.280	0.340	0.297	0.318	0.332	0.264	0.290	0.301	0.302	7.95
55)	Tert Amyl Alcohol										
			0.012	0.010	0.010		0.009		0.010	0.010	11.74
56)	hexane										
			0.303	0.275	0.241	0.270	0.281	0.240		0.251	0.266	8.65
57)	2,2,4-TRIMETHYLPENTANE										
		0.635	0.668	0.792	0.694	0.770	0.800	0.671	0.592	0.698	0.702	10.21
58)	benzene										
		0.941	0.833	0.989	0.878	0.948	0.976	0.773	0.931	0.886	0.906	7.76
59)	tert-amyl methyl ether										
		0.127	0.129	0.158	0.139	0.155	0.158	0.122		0.141	0.141	10.30
60)	heptane										
		0.136	0.161	0.168	0.146	0.161	0.171	0.143	0.120	0.150	0.151	10.99
61)	isopropyl acetate										
		0.438	0.485	0.555	0.491	0.537	0.536	0.480		0.490	0.501	7.65
62)	1,2-dichloroethane										
		0.265	0.241	0.287	0.260	0.284	0.283	0.250	0.229	0.272	0.264	7.78
63)	Ethyl acrylate										
		0.233	0.247	0.310	0.268	0.297	0.289	0.236		0.250	0.266	11.03
64)	trichloroethene										
		0.229	0.223	0.262	0.230	0.243	0.257	0.209	0.221	0.230	0.234	7.39
65)	tert-Amyl Ethyl Ether										
		0.253	0.250	0.339	0.301	0.314	0.335	0.252		0.314	0.295	12.81
66)	methyl methacrylate										
		0.135	0.131	0.164	0.145	0.152	0.160	0.136		0.140	0.145	8.28
67)	2-nitropropane										
			0.013	0.012	0.012	0.013	0.009		0.012	0.012	11.35
68)	2-chloroethyl vinyl ether										
		0.066	0.080	0.102	0.089	0.098	0.101	0.082		0.087	0.088	13.77
69)	1,2-dichloropropane										
		0.220	0.186	0.224	0.202	0.219	0.221	0.188	0.178	0.204	0.205	8.42
70)	dibromomethane										
		0.136	0.117	0.141	0.126	0.137	0.139	0.116	0.113	0.131	0.128	8.42
71)	methylcyclohexane										
		0.309	0.341	0.401	0.348	0.385	0.403	0.334		0.355	0.359	9.35
72)	bromodichloromethane										
		0.289	0.270	0.328	0.293	0.315	0.329	0.255	0.261	0.297	0.293	9.39
73)	cis-1,3-dichloropropene										
		0.345	0.341	0.404	0.361	0.386	0.402	0.323	0.346	0.368	0.364	7.81
74)	toluene-d8 (s)										
			1.089	0.968	0.859	0.897	0.987	0.834		0.940	0.939	9.20
75)	4-methyl-2-pentanone										
		0.061	0.071	0.097	0.086	0.089	0.093	0.077		0.083	0.082	14.44
76)	toluene										
		0.718	0.578	0.675	0.599	0.638	0.670	0.544	0.723	0.612	0.640	9.67
77)	3-methyl-1-butanol										
			0.010	0.013	0.012	0.012	0.012	0.010		0.010	0.011	10.11
78)	trans-1,3-dichloropropene										
		0.337	0.317	0.369	0.332	0.360	0.369	0.309	0.301	0.336	0.337	7.47
79)	ethyl methacrylate										
		0.263	0.250	0.314	0.277	0.299	0.308	0.247	0.217	0.270	0.272	11.71
80)	1,1,2-trichloroethane										
		0.156	0.156	0.175	0.158	0.167	0.176	0.149	0.125	0.161	0.158	9.69
81)	2-hexanone										
		0.075	0.076	0.101	0.087	0.090	0.092	0.083		0.084	0.086	9.87

Initial Calibration Summary

Job Number: JB29314 **Sample:** VO5870-ICC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133062.D
Project: BMSMC, Building 5 Area, PR

```
 82) I   chlorobenzene-d5      ----------------ISTD--------------------
 83)  tetrachloroethene
            0.277 0.244 0.274 0.243 0.260 0.271 0.217 0.251 0.245   0.254    7.52
 84)  1,3-dichloropropane
            0.344 0.311 0.357 0.329 0.352 0.351 0.308 0.344 0.338   0.337    5.23
 85)  butyl acetate
            0.126 0.143 0.164 0.149 0.162 0.152 0.143       0.147   0.148    8.00
 86)  3,3-dimethyl-1-butanol
            0.019 0.022 0.027 0.024 0.025 0.026 0.022       0.023   0.023   10.98
 87)  dibromochloromethane
            0.296 0.256 0.301 0.272 0.293 0.298 0.240 0.258 0.273   0.276    7.92
 88)  1,2-dibromoethane
            0.226 0.217 0.243 0.217 0.234 0.238 0.201 0.224 0.221   0.225    5.62
 89)  chlorobenzene
            0.802 0.718 0.816 0.727 0.782 0.810 0.648 0.758 0.738   0.756    7.19
 90)  1,1,1,2-tetrachloroethane
            0.276 0.266 0.297 0.266 0.288 0.293 0.235 0.249 0.270   0.271    7.51
 91)  ethylbenzene
            1.323 1.213 1.416 1.250 1.337 1.412 1.113 1.419 1.256   1.304    8.09
 92)  m,p-xylene
            0.553 0.487 0.559 0.497 0.532 0.544 0.451 0.575 0.502   0.522    7.74
 93)  o-xylene
            0.519 0.469 0.539 0.483 0.516 0.525 0.442 0.539 0.490   0.502    6.68
 94)  butyl acrylate
            0.403 0.409 0.505 0.457 0.500 0.456 0.385 0.349 0.430   0.433   12.03
 95)  styrene
            0.863 0.795 0.933 0.833 0.888 0.909 0.729 0.870 0.829   0.850    7.29
 96)  bromoform
            0.204 0.189 0.234 0.211 0.225 0.224 0.192 0.212 0.209   0.211    7.15

 97) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 98)  isopropylbenzene
            2.283 2.107 2.631 2.206 2.340 2.773 1.946 2.257 2.192   2.304   11.06
 99)  4-bromofluorobenzene (s)
                  0.773 0.666 0.580 0.618 0.704 0.587       0.638   0.652   10.49
100)  cyclohexanone
                        0.036 0.033 0.037 0.032 0.045       0.027   0.035   17.05
              ----- Linear regression -----  Coefficient =  0.9966
                Response Ratio = 0.01432 + 0.03255 *A

101)  bromobenzene
            0.648 0.553 0.668 0.574 0.612 0.682 0.515 0.642 0.588   0.609    9.18
102)  1,1,2,2-tetrachloroethane
            0.487 0.477 0.562 0.498 0.533 0.561 0.475 0.466 0.490   0.505    7.34
103)  trans-1,4-dichloro-2-butene
            0.132 0.137 0.172 0.146 0.148 0.170 0.140 0.145 0.141   0.148    9.54
104)  1,2,3-trichloropropane
            0.145 0.138 0.169 0.147 0.153 0.166 0.134 0.143 0.143   0.149    7.95
105)  n-propylbenzene
            0.621 0.565 0.703 0.603 0.628 0.723 0.507 0.624 0.598   0.619   10.53
106)  4-Ethyltoluene
            2.204 2.034 2.589 2.247 2.353 2.547 1.947 2.336 2.465   2.302    9.50
107)  2-chlorotoluene
            0.611 0.508 0.607 0.527 0.561 0.605 0.474 0.583 0.537   0.557    8.74
108)  4-chlorotoluene
            0.588 0.544 0.622 0.551 0.589 0.623 0.510       0.551   0.572    6.97
109)  1,3,5-trimethylbenzene
            2.011 1.739 2.153 1.827 1.926 2.205 1.627 1.938 1.813   1.915    9.82
110)  tert-butylbenzene
```

Initial Calibration Summary

Job Number: JB29314 **Sample:** VO5870-ICC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133062.D
Project: BMSMC, Building 5 Area, PR

```
            1.749 1.523 1.946 1.642 1.733 1.952 1.470 1.766 1.651   1.715    9.67
111)  pentachloroethane
            0.374 0.352 0.421 0.374 0.394 0.426 0.344 0.359 0.369   0.379    7.64
112)  1,2,4-trimethylbenzene
            2.033 1.790 2.149 1.886 1.999 2.153 1.654 2.271 1.877   1.979    9.92
113)  sec-butylbenzene
            2.611 2.310 2.810 2.435 2.570 2.844 2.131 2.592 2.406   2.523    9.08
114)  1,3-dichlorobenzene
            1.219 1.100 1.234 1.101 1.174 1.232 1.025 1.320 1.129   1.171    7.72
115)  p-isopropyltoluene
            2.285 1.950 2.376 2.085 2.202 2.373 1.836 2.188 2.067   2.151    8.60
116)  1,4-dichlorobenzene
            1.295 1.167 1.248 1.133 1.220 1.247 1.040 1.399 1.145   1.211    8.61
117)  1,2-dichlorobenzene
            1.157 1.046 1.126 1.034 1.107 1.140 0.938 1.170 1.045   1.085    6.91
118)  benzyl chloride
            1.054 1.117 1.215 1.102 1.238 1.174 1.070       1.104   1.134    5.93
119)  1,4-Diethylbenzene
            1.272 1.223 1.460 1.310 1.361 1.430 1.146 1.271 1.432   1.323    8.03
120)  n-butylbenzene
            1.156 1.022 1.188 1.067 1.116 1.189 0.940 1.188 1.057   1.103    7.96
121)  1,2-dibromo-3-chloropropane
            0.142 0.116 0.115 0.103 0.104 0.117 0.104       0.104   0.113   11.51
122)  1,3,5-TRICHLOROBENZENE
            1.008 0.864 0.979 0.876 0.918 0.998 0.792 1.012 0.888   0.926    8.37
123)  1,2,4-trichlorobenzene
            0.923 0.800 0.897 0.802 0.852 0.930 0.727 1.027 0.791   0.861   10.66
124)  hexachlorobutadiene
            0.561 0.484 0.586 0.504 0.528 0.608 0.440 0.528 0.495   0.526    9.99
125)  naphthalene
            2.172 1.821 2.084 1.830 1.923 2.151 1.678       1.779   1.930    9.58
126)  1,2,3-trichlorobenzene
            0.874 0.729 0.809 0.731 0.778 0.836 0.679 0.866 0.717   0.780    8.98
127)  hexachloroethane
            0.402 0.361 0.446 0.390 0.407 0.457 0.333 0.306 0.386   0.388   12.60
128)  1,2,4,5-tetramethylbenzene
            1.885 1.850 2.202 1.966 2.052 2.243 1.708 1.685 2.122   1.968   10.32
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MO5870S.M         Thu Feb 07 16:57:12 2013   MSO
```

Initial Calibration Verification

Job Number: JB29314 **Sample:** VO5870-ICV5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133069.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\O133069.D Vial: 16
Acq On : 7 Feb 2013 10:01 am Operator: DIPAP
Sample : ICV5870-50 Inst : MSO
Misc : MS41527,VO5870,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title : Method 624, ZB624 60mx0.25mmx1.4um
Last Update : Thu Feb 07 12:53:50 2013
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	99	0.00	8.26
2	M	tertiary butyl alcohol	0.874	0.919	-5.1	106	0.00	8.40
3		ethanol		----------NA----------				
4	M	1,4-dioxane	0.086	0.084	2.3	94	0.00	12.40
5	I	pentafluorobenzene	1.000	1.000	0.0	92	0.00	10.69
		----------	True	Calc.	% Drift	----------		
6	M	chlorodifluoromethane	50.000	44.435	11.1	89	0.00	4.24
		----------	AvgRF	CCRF	% Dev	----------		
7	M	dichlorodifluoromethane	0.537	0.639	-19.0	110	0.00	4.21
8	M	chloromethane	0.496	0.592	-19.4	112	0.00	4.68
9	M	vinyl chloride	0.501	0.586	-17.0	106	0.00	4.94
10	M	bromomethane	0.258	0.265	-2.7	99	0.00	5.70
11	M	chloroethane	0.209	0.262	-25.4#	106	0.01	5.93
12		vinyl bromide	0.294	0.345	-17.3	105	0.00	6.34
13	M	trichlorofluoromethane	0.562	0.671	-19.4	112	0.00	6.43
14	M	Pentane	0.493	0.553	-12.2	105	0.00	6.55
15	M	ethyl ether	0.185	0.191	-3.2	101	0.00	6.96
16	M	acrolein	0.060	0.074	-23.3#	114	0.00	7.29
17	M	1,1-dichloroethene	0.308	0.337	-9.4	104	0.00	7.44
18	M	acetone	0.105	0.105	0.0	98	0.00	7.55
19	M	allyl chloride	0.185	0.193	-4.3	92	0.00	8.07
20	M	acetonitrile	0.025	0.027	-8.0	96	0.00	8.08
21	M	iodomethane	0.334	0.382	-14.4	99	0.00	7.77
22	M	iso-butyl alcohol		----------NA----------				
23	M	carbon disulfide	1.068	1.156	-8.2	102	0.00	7.89
24	M	methylene chloride	0.367	0.365	0.5	102	0.00	8.30
25	M	methyl acetate	0.227	0.231	-1.8	92	0.00	8.07
26	M	methyl tert butyl ether	0.832	0.893	-7.3	98	0.00	8.63
27	M	trans-1,2-dichloroethene	0.344	0.374	-8.7	103	0.00	8.70
28	M	di-isopropyl ether	0.863	0.905	-4.9	97	0.00	9.28
29	M	2-butanone	0.043	0.048	-11.6	106	0.00	10.12
30	M	1,1-dichloroethane	0.532	0.597	-12.2	104	0.00	9.35
31	M	chloroprene	0.442	0.454	-2.7	96	0.00	9.45
32	M	acrylonitrile	0.111	0.126	-13.5	106	0.00	8.70
33	M	vinyl acetate	0.053	0.057	-7.5	106	0.00	9.33
34	M	ethyl tert-butyl ether	0.859	0.883	-2.8	94	0.00	9.79
35	M	ethyl acetate	0.042	0.045	-7.1	100	0.00	10.13
36	M	2,2-dichloropropane	0.496	0.542	-9.3	101	0.00	10.13
37	M	cis-1,2-dichloroethene	0.363	0.400	-10.2	103	0.00	10.15

Initial Calibration Verification

Job Number: JB29314 **Sample:** VO5870-ICV5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133069.D
Project: BMSMC, Building 5 Area, PR

38		methylacrylate	0.051	0.058	-13.7	102	0.00	10.22
39	M	propionitrile	0.045	0.054	-20.0	106	0.00	10.26
40	M	bromochloromethane	0.170	0.184	-8.2	101	0.00	10.49
41	M	tetrahydrofuran	0.106	0.118	-11.3	107	0.00	10.51
42	M	chloroform	0.377	0.400	-6.1	101	0.00	10.55
43		t-butyl formate	0.232	0.253	-9.1	101	0.00	10.56
44	S	dibromofluoromethane (s)	0.342	0.337	1.5	99	0.00	10.76
45	S	1,2-dichloroethane-d4 (s)	0.363	0.346	4.7	98	0.00	11.20
46	M	freon 113	0.245	0.268	-9.4	102	0.00	7.37
47	M	methacrylonitrile	0.165	0.185	-12.1	101	0.00	10.44
48	M	1,1,1-trichloroethane	0.529	0.586	-10.8	102	0.00	10.78
49	M	Cyclohexane	0.468	0.542	-15.8	106	0.00	10.83
50	I	1,4-difluorobenzene	1.000	1.000	0.0	94	0.00	11.64
51	M	epichlorohydrin	0.021	0.024	-14.3	101	0.00	12.98
52	M	n-butyl alcohol	0.008	0.008#	0.0	101	0.00	11.80
53	M	carbon tetrachloride	0.312	0.334	-7.1	100	0.00	10.98
54	M	1,1-dichloropropene	0.302	0.326	-7.9	103	0.00	10.97
55		Tert Amyl Alcohol	0.010	0.011	-10.0	106	0.00	11.13
56	M	hexane	0.266	0.191	28.2#	75	0.00	9.01
57		2,2,4-TRIMETHYLPENTANE	0.702	0.658	6.3	89	0.00	11.20
58	M	benzene	0.906	0.961	-6.1	103	0.00	11.25
59	M	tert-amyl methyl ether	0.141	0.138	2.1	94	0.00	11.26
60	M	heptane	0.151	0.134	11.3	86	0.00	11.39
61	M	isopropyl acetate	0.501	0.542	-8.2	104	0.00	11.17
62	M	1,2-dichloroethane	0.264	0.274	-3.8	99	0.00	11.29
63	m	Ethyl acrylate	0.266	0.284	-6.8	100	0.00	12.00
64	M	trichloroethene	0.234	0.253	-8.1	104	0.00	11.99
65		tert-Amyl Ethyl Ether	0.295	0.314	-6.4	99	0.00	12.13
66	M	methyl methacrylate	0.145	0.161	-11.0	105	0.00	12.27
67	M	2-nitropropane	0.012	0.013	-8.3	99	0.00	13.19
68	M	2-chloroethyl vinyl ether	0.088	0.098	-11.4	104	0.00	12.83
69	M	1,2-dichloropropane	0.205	0.216	-5.4	101	0.00	12.28
70	M	dibromomethane	0.128	0.137	-7.0	103	0.00	12.45
71	M	methylcyclohexane	0.359	0.357	0.6	97	0.00	12.19
72	M	bromodichloromethane	0.293	0.316	-7.8	102	0.00	12.59
73	M	cis-1,3-dichloropropene	0.364	0.368	-1.1	96	0.00	13.06
74	S	toluene-d8 (s)	0.939	0.922	1.8	101	0.00	13.35
75	M	4-methyl-2-pentanone	0.082	0.094	-14.6	104	0.00	13.15
76	M	toluene	0.640	0.643	-0.5	101	0.00	13.43
77	M	3-methyl-1-butanol	0.011	0.012	-9.1	97	0.00	13.18
78	M	trans-1,3-dichloropropene	0.337	0.349	-3.6	99	0.00	13.66
79	M	ethyl methacrylate	0.272	0.279	-2.6	95	0.00	13.62
80	M	1,1,2-trichloroethane	0.158	0.170	-7.6	102	0.00	13.89
81	M	2-hexanone	0.086	0.095	-10.5	102	0.00	14.05
82	I	chlorobenzene-d5	1.000	1.000	0.0	93	0.00	14.96
83	M	tetrachloroethene	0.254	0.265	-4.3	102	0.00	14.04
84	M	1,3-dichloropropane	0.337	0.349	-3.6	99	0.00	14.08
85	M	butyl acetate	0.148	0.159	-7.4	99	0.00	14.11
86		3,3-dimethyl-1-butanol	0.023	0.032	-39.1#	122	0.00	14.24
87	M	dibromochloromethane	0.276	0.283	-2.5	97	0.00	14.36
88	M	1,2-dibromoethane	0.225	0.233	-3.6	100	0.00	14.53
89	M	chlorobenzene	0.756	0.788	-4.2	101	0.00	15.00
90	M	1,1,1,2-tetrachloroethane	0.271	0.286	-5.5	100	0.00	15.06
91	M	ethylbenzene	1.304	1.363	-4.5	102	0.00	15.04
92	M	m,p-xylene	0.522	0.540	-3.4	101	0.00	15.15
93	M	o-xylene	0.502	0.527	-5.0	102	0.00	15.60
94		butyl acrylate	0.433	0.478	-10.4	98	0.00	15.40
95	M	styrene	0.850	0.894	-5.2	100	0.00	15.61

Initial Calibration Verification

Job Number: JB29314 **Sample:** VO5870-ICV5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133069.D
Project: BMSMC, Building 5 Area, PR

96	M	bromoform	0.211	0.224	-6.2	99	0.00	15.93
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	17.44
98	M	isopropylbenzene	2.304	2.410	-4.6	101	0.00	15.95
99	S	4-bromofluorobenzene (s)	0.652	0.621	4.8	99	0.00	16.19
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	500.000	330.487	33.9#	64	0.00	16.18
		----------	AvgRF	CCRF	% Dev	----------		
101	M	bromobenzene	0.609	0.625	-2.6	101	0.00	16.41
102	M	1,1,2,2-tetrachloroethane	0.505	0.520	-3.0	97	0.00	16.31
103	M	trans-1,4-dichloro-2-bute	0.148	0.157	-6.1	100	0.00	16.35
104	M	1,2,3-trichloropropane	0.149	0.156	-4.7	98	0.00	16.40
105	M	n-propylbenzene	0.619	0.678	-9.5	104	0.00	16.39
106		4-Ethyltoluene	2.302	2.398	-4.2	99	0.00	16.50
107	M	2-chlorotoluene	0.557	0.577	-3.6	101	0.00	16.56
108	M	4-chlorotoluene	0.572	0.593	-3.7	100	0.00	16.67
109	M	1,3,5-trimethylbenzene	1.915	2.022	-5.6	102	0.00	16.54
110	M	tert-butylbenzene	1.715	1.835	-7.0	103	0.00	16.92
111	M	pentachloroethane	0.379	0.404	-6.6	100	0.00	17.03
112	M	1,2,4-trimethylbenzene	1.979	2.091	-5.7	102	0.00	16.97
113	M	sec-butylbenzene	2.523	2.700	-7.0	103	0.00	17.15
114	M	1,3-dichlorobenzene	1.171	1.209	-3.2	102	0.00	17.38
115	M	p-isopropyltoluene	2.151	2.389	-11.1	106	0.00	17.27
116	M	1,4-dichlorobenzene	1.211	1.226	-1.2	100	0.00	17.46
117	M	1,2-dichlorobenzene	1.085	1.110	-2.3	99	0.00	17.89
118	M	benzyl chloride	1.134	1.250	-10.2	105	0.00	17.59
119		1,4-Diethylbenzene	1.323	1.435	-8.5	101	0.00	17.68
120	M	n-butylbenzene	1.103	1.175	-6.5	102	0.00	17.72
121	M	1,2-dibromo-3-chloropropa	0.113	0.112	0.9	100	0.00	18.75
122		1,3,5-TRICHLOROBENZENE	0.926	0.931	-0.5	98	0.00	18.92
123	M	1,2,4-trichlorobenzene	0.861	0.891	-3.5	103	0.00	19.62
124	M	hexachlorobutadiene	0.526	0.543	-3.2	100	0.00	19.72
125	M	naphthalene	1.930	1.927	0.2	97	0.00	19.94
126	M	1,2,3-trichlorobenzene	0.780	0.776	0.5	98	0.00	20.21
127	M	hexachloroethane	0.388	0.430	-10.8	102	0.00	18.17
128		1,2,4,5-tetramethylbenzen	1.968	2.096	-6.5	99	0.00	18.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O133062.D MO5870S.M Thu Feb 07 16:58:26 2013 MSO

6.9.9

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133442.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\O133442.D                    Vial: 3
Acq On    : 25 Feb 2013   1:00 pm                     Operator: DIPAP
Sample    : CC5870-20                                 Inst    : MSO
Misc      : MS43731,VO5887,5.0,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title        : Method 624, ZB624 60mx0.25mmx1.4um
Last Update  : Thu Feb 07 12:53:50 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.30min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	89	-0.01	8.25
2	M	tertiary butyl alcohol	0.874	0.857	1.9	80	-0.01	8.39
3		ethanol		----------NA----------				
4	M	1,4-dioxane	0.086	0.077	10.5	74	0.00	12.40
5	I	pentafluorobenzene	1.000	1.000	0.0	93	0.00	10.68
		----------	True	Calc.	% Drift	----------		
6	M	chlorodifluoromethane	20.000	14.578	27.1#	54	0.00	4.24
		----------	AvgRF	CCRF	% Dev	----------		
7	M	dichlorodifluoromethane	0.537	0.446	16.9	73	0.00	4.21
8	M	chloromethane	0.496	0.388	21.8#	72	0.00	4.68
9	M	vinyl chloride	0.501	0.402	19.8	71	0.00	4.94
10	M	bromomethane	0.258	0.248	3.9	85	0.04	5.73
11	M	chloroethane	0.209	0.194	7.2	77	0.03	5.94
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.562	0.511	9.1	81	0.02	6.44
14	M	Pentane		----------NA----------				
15	M	ethyl ether	0.185	0.185	0.0	89	0.00	6.96
16	M	acrolein	0.060	0.048	20.0	73	0.00	7.29
17	M	1,1-dichloroethene	0.308	0.292	5.2	86	0.00	7.44
18	M	acetone	0.105	0.088	16.2	79	0.00	7.55
19	M	allyl chloride	0.185	0.185	0.0	86	0.00	8.07
20	M	acetonitrile	0.025	0.022	12.0	77	0.00	8.08
21	M	iodomethane	0.334	0.361	-8.1	99	0.00	7.77
22	M	iso-butyl alcohol		----------NA----------				
23	M	carbon disulfide	1.068	1.008	5.6	85	0.00	7.90
24	M	methylene chloride	0.367	0.317	13.6	83	0.00	8.30
25	M	methyl acetate	0.227	0.200	11.9	79	0.00	8.07
26	M	methyl tert butyl ether	0.832	0.881	-5.9	92	0.00	8.63
27	M	trans-1,2-dichloroethene	0.344	0.331	3.8	88	0.00	8.70
28	M	di-isopropyl ether	0.863	0.828	4.1	79	0.00	9.28
29	M	2-butanone	0.043	0.037	14.0	79	0.00	10.12
30	M	1,1-dichloroethane	0.532	0.521	2.1	85	0.00	9.34
31	M	chloroprene	0.442	0.390	11.8	75	0.00	9.45
32	M	acrylonitrile	0.111	0.098	11.7	84	0.00	8.69
33	M	vinyl acetate	0.053	0.048	9.4	79	0.00	9.34
34	M	ethyl tert-butyl ether	0.859	0.833	3.0	81	0.00	9.79
35	M	ethyl acetate	0.042	0.037	11.9	74	0.00	10.13
36	M	2,2-dichloropropane	0.496	0.485	2.2	86	0.00	10.12
37	M	cis-1,2-dichloroethene	0.363	0.350	3.6	85	0.00	10.14

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133442.D
Project: BMSMC, Building 5 Area, PR

38		methylacrylate	0.051	0.047	7.8	84	0.00	10.21
39	M	propionitrile	0.045	0.040	11.1	80	0.00	10.25
40	M	bromochloromethane	0.170	0.177	-4.1	90	0.00	10.48
41	M	tetrahydrofuran	0.106	0.097	8.5	85	0.00	10.51
42	M	chloroform	0.377	0.363	3.7	85	0.00	10.55
43		t-butyl formate	0.232	0.228	1.7	84	0.00	10.55
44	S	dibromofluoromethane (s)	0.342	0.320	6.4	90	0.00	10.75
45	S	1,2-dichloroethane-d4 (s)	0.363	0.360	0.8	95	0.00	11.19
46	M	freon 113	0.245	0.232	5.3	83	0.00	7.37
47	M	methacrylonitrile	0.165	0.156	5.5	83	0.00	10.43
48	M	1,1,1-trichloroethane	0.529	0.518	2.1	86	0.00	10.78
49	M	Cyclohexane	0.468	0.458	2.1	86	0.00	10.83
50	I	1,4-difluorobenzene	1.000	1.000	0.0	83	0.00	11.64
51	M	epichlorohydrin	0.021	0.021	0.0	79	0.00	12.97
52	M	n-butyl alcohol	0.008	0.007#	12.5	75	-0.01	11.79
53	M	carbon tetrachloride	0.312	0.343	-9.9	86	0.00	10.98
54	M	1,1-dichloropropene	0.302	0.317	-5.0	83	0.00	10.97
55		Tert Amyl Alcohol		----------NA----------				
56	M	hexane	0.266	0.209	21.4#	65	0.00	9.01
57		2,2,4-TRIMETHYLPENTANE	0.702	0.694	1.1	75	0.00	11.20
58	M	benzene	0.906	0.952	-5.1	84	0.00	11.25
59	M	tert-amyl methyl ether	0.141	0.157	-11.3	84	0.00	11.26
60	M	heptane	0.151	0.140	7.3	72	0.00	11.39
61	M	isopropyl acetate	0.501	0.480	4.2	75	0.00	11.17
62	M	1,2-dichloroethane	0.264	0.298	-12.9	88	0.00	11.29
63	m	Ethyl acrylate		----------NA----------				
64	M	trichloroethene	0.234	0.253	-8.1	87	0.00	11.98
65		tert-Amyl Ethyl Ether		----------NA----------				
66	M	methyl methacrylate	0.145	0.152	-4.8	84	0.00	12.27
67	M	2-nitropropane	0.012	0.012	0.0	87	-0.01	13.18
68	M	2-chloroethyl vinyl ether	0.088	0.098	-11.4	83	0.00	12.82
69	M	1,2-dichloropropane	0.205	0.223	-8.8	85	0.00	12.28
70	M	dibromomethane	0.128	0.141	-10.2	86	0.00	12.45
71	M	methylcyclohexane	0.359	0.348	3.1	76	0.00	12.18
72	M	bromodichloromethane	0.293	0.329	-12.3	87	0.00	12.59
73	M	cis-1,3-dichloropropene	0.364	0.402	-10.4	87	0.00	13.06
74	S	toluene-d8 (s)	0.939	0.981	-4.5	91	0.00	13.34
75	M	4-methyl-2-pentanone	0.082	0.091	-11.0	85	0.00	13.15
76	M	toluene	0.640	0.648	-1.3	85	0.00	13.42
77	M	3-methyl-1-butanol	0.011	0.011	0.0	78	0.00	13.18
78	M	trans-1,3-dichloropropene	0.337	0.382	-13.4	89	0.00	13.65
79	M	ethyl methacrylate	0.272	0.301	-10.7	84	0.00	13.62
80	M	1,1,2-trichloroethane	0.158	0.174	-10.1	87	0.00	13.88
81	M	2-hexanone	0.086	0.089	-3.5	83	0.00	14.05
82	I	chlorobenzene-d5	1.000	1.000	0.0	84	0.00	14.96
83	M	tetrachloroethene	0.254	0.280	-10.2	90	0.00	14.03
84	M	1,3-dichloropropane	0.337	0.365	-8.3	87	0.00	14.08
85	M	butyl acetate	0.148	0.155	-4.7	80	0.00	14.11
86		3,3-dimethyl-1-butanol	0.023	0.024	-4.3	79	0.00	14.23
87	M	dibromochloromethane	0.276	0.313	-13.4	90	0.00	14.36
88	M	1,2-dibromoethane	0.225	0.244	-8.4	87	0.00	14.52
89	M	chlorobenzene	0.756	0.811	-7.3	87	0.00	15.00
90	M	1,1,1,2-tetrachloroethane	0.271	0.308	-13.7	90	0.00	15.06
91	M	ethylbenzene	1.304	1.346	-3.2	84	0.00	15.04
92	M	m,p-xylene	0.522	0.552	-5.7	87	0.00	15.15
93	M	o-xylene	0.502	0.533	-6.2	87	0.00	15.60
94		butyl acrylate		----------NA----------				
95	M	styrene	0.850	0.915	-7.6	86	0.00	15.61

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133442.D
Project: BMSMC, Building 5 Area, PR

96	M	bromoform	0.211	0.244	-15.6	91	0.00	15.93
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	17.43
98	M	isopropylbenzene	2.304	2.235	3.0	84	0.00	15.95
99	S	4-bromofluorobenzene (s)	0.652	0.649	0.5	93	0.00	16.19
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	200.000	149.301	25.3#	66	0.00	16.18
		----------	AvgRF	CCRF	% Dev	----------		
101	M	bromobenzene	0.609	0.633	-3.9	91	0.00	16.40
102	M	1,1,2,2-tetrachloroethane	0.505	0.505	0.0	84	0.00	16.31
103	M	trans-1,4-dichloro-2-bute	0.148	0.149	-0.7	89	0.00	16.35
104	M	1,2,3-trichloropropane	0.149	0.148	0.7	85	0.00	16.39
105	M	n-propylbenzene	0.619	0.615	0.6	86	0.00	16.39
106		4-Ethyltoluene		----------NA----------				
107	M	2-chlorotoluene	0.557	0.563	-1.1	89	0.00	16.56
108	M	4-chlorotoluene	0.572	0.590	-3.1	88	0.00	16.66
109	M	1,3,5-trimethylbenzene	1.915	1.902	0.7	87	0.00	16.54
110	M	tert-butylbenzene	1.715	1.719	-0.2	87	0.00	16.92
111	M	pentachloroethane	0.379	0.415	-9.5	93	0.00	17.03
112	M	1,2,4-trimethylbenzene	1.979	1.939	2.0	86	0.00	16.96
113	M	sec-butylbenzene	2.523	2.445	3.1	84	0.00	17.14
114	M	1,3-dichlorobenzene	1.171	1.203	-2.7	90	0.00	17.37
115	M	p-isopropyltoluene	2.151	2.121	1.4	85	0.00	17.27
116	M	1,4-dichlorobenzene	1.211	1.235	-2.0	89	0.00	17.46
117	M	1,2-dichlorobenzene	1.085	1.130	-4.1	90	0.00	17.89
118	M	benzyl chloride	1.134	1.159	-2.2	83	0.00	17.59
119		1,4-Diethylbenzene		----------NA----------				
120	M	n-butylbenzene	1.103	1.033	6.3	82	0.00	17.71
121	M	1,2-dibromo-3-chloropropa	0.113	0.100	11.5	84	0.00	18.75
122		1,3,5-TRICHLOROBENZENE	0.926	0.993	-7.2	95	0.00	18.92
123	M	1,2,4-trichlorobenzene	0.861	0.925	-7.4	96	0.00	19.62
124	M	hexachlorobutadiene	0.526	0.537	-2.1	90	0.00	19.71
125	M	naphthalene	1.930	1.958	-1.5	90	0.00	19.93
126	M	1,2,3-trichlorobenzene	0.780	0.858	-10.0	97	0.00	20.21
127	M	hexachloroethane	0.388	0.416	-7.2	90	0.00	18.16
128		1,2,4,5-tetramethylbenzen		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O133061.D MO5870S.M Tue Feb 26 11:39:36 2013 MSO

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133462.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\O133462.D                    Vial: 23
Acq On    : 26 Feb 2013  12:19 am                     Operator: DIPAP
Sample    : cc5870-50                                 Inst    : MSO
Misc      : MS43527,VO5887,5.0,,,,1                   Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title        : Method 624, ZB624 60mx0.25mmx1.4um
Last Update  : Thu Feb 07 12:53:50 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.010  Min. Rel. Area :  50%  Max. R.T. Dev  0.30min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	80	-0.01	8.25
2	M	tertiary butyl alcohol	0.874	0.871	0.3	81	-0.01	8.39
3		ethanol		----------NA----------				
4	M	1,4-dioxane	0.086	0.082	4.7	75	0.00	12.40
5	I	pentafluorobenzene	1.000	1.000	0.0	86	0.00	10.69
		----------	True	Calc.	% Drift	----------		
6	M	chlorodifluoromethane	50.000	38.276	23.4#	72	0.00	4.24
		----------	AvgRF	CCRF	% Dev	----------		
7	M	dichlorodifluoromethane	0.537	0.511	4.8	82	0.00	4.21
8	M	chloromethane	0.496	0.452	8.9	81	0.00	4.67
9	M	vinyl chloride	0.501	0.462	7.8	79	0.00	4.94
10	M	bromomethane	0.258	0.272	-5.4	96	0.01	5.70
11	M	chloroethane	0.209	0.229	-9.6	87	0.02	5.93
12		vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.562	0.606	-7.8	95	0.00	6.43
14	M	Pentane		----------NA----------				
15	M	ethyl ether	0.185	0.187	-1.1	93	0.00	6.96
16	M	acrolein	0.060	0.051	15.0	74	0.00	7.29
17	M	1,1-dichloroethene	0.308	0.312	-1.3	90	0.00	7.44
18	M	acetone	0.105	0.097	7.6	85	0.00	7.55
19	M	allyl chloride	0.185	0.188	-1.6	84	0.00	8.07
20	M	acetonitrile	0.025	0.023	8.0	79	0.00	8.07
21	M	iodomethane	0.334	0.383	-14.7	93	0.00	7.77
22	M	iso-butyl alcohol		----------NA----------				
23	M	carbon disulfide	1.068	1.075	-0.7	89	0.00	7.89
24	M	methylene chloride	0.367	0.339	7.6	89	0.00	8.30
25	M	methyl acetate	0.227	0.218	4.0	81	0.00	8.06
26	M	methyl tert butyl ether	0.832	0.949	-14.1	97	0.00	8.63
27	M	trans-1,2-dichloroethene	0.344	0.354	-2.9	91	0.00	8.70
28	M	di-isopropyl ether	0.863	0.896	-3.8	90	0.00	9.28
29	M	2-butanone	0.043	0.041	4.7	86	0.00	10.12
30	M	1,1-dichloroethane	0.532	0.559	-5.1	91	0.00	9.34
31	M	chloroprene	0.442	0.419	5.2	83	0.00	9.45
32	M	acrylonitrile	0.111	0.104	6.3	82	0.00	8.70
33	M	vinyl acetate	0.053	0.049	7.5	86	0.00	9.33
34	M	ethyl tert-butyl ether	0.859	0.928	-8.0	92	0.00	9.79
35	M	ethyl acetate	0.042	0.040	4.8	83	0.00	10.13
36	M	2,2-dichloropropane	0.496	0.515	-3.8	91	0.00	10.12
37	M	cis-1,2-dichloroethene	0.363	0.382	-5.2	92	0.00	10.14

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133462.D
Project: BMSMC, Building 5 Area, PR

38		methylacrylate	0.051	0.054	-5.9	89	0.00	10.21
39	M	propionitrile	0.045	0.043	4.4	79	0.00	10.25
40	M	bromochloromethane	0.170	0.194	-14.1	100	0.00	10.48
41	M	tetrahydrofuran	0.106	0.102	3.8	86	0.00	10.51
42	M	chloroform	0.377	0.392	-4.0	92	0.00	10.54
43		t-butyl formate	0.232	0.258	-11.2	96	0.00	10.56
44	S	dibromofluoromethane (s)	0.342	0.334	2.3	92	0.00	10.75
45	S	1,2-dichloroethane-d4 (s)	0.363	0.378	-4.1	101	0.00	11.19
46	M	freon 113	0.245	0.249	-1.6	89	0.00	7.37
47	M	methacrylonitrile	0.165	0.167	-1.2	86	0.00	10.43
48	M	1,1,1-trichloroethane	0.529	0.571	-7.9	93	0.00	10.78
49	M	Cyclohexane	0.468	0.500	-6.8	92	0.00	10.83
50	I	1,4-difluorobenzene	1.000	1.000	0.0	80	0.00	11.64
51	M	epichlorohydrin	0.021	0.021	0.0	77	0.00	12.97
52	M	n-butyl alcohol	0.008	0.008#	0.0	79	0.00	11.80
53	M	carbon tetrachloride	0.312	0.373	-19.6	94	0.00	10.98
54	M	1,1-dichloropropene	0.302	0.334	-10.6	89	0.00	10.97
55		Tert Amyl Alcohol		----------NA----------				
56	M	hexane	0.266	0.210	21.1#	69	0.00	9.01
57		2,2,4-TRIMETHYLPENTANE	0.702	0.724	-3.1	83	0.00	11.20
58	M	benzene	0.906	0.990	-9.3	90	0.00	11.25
59	M	tert-amyl methyl ether	0.141	0.170	-20.6#	97	0.00	11.26
60	M	heptane	0.151	0.146	3.3	80	0.00	11.39
61	M	isopropyl acetate	0.501	0.501	0.0	81	0.00	11.17
62	M	1,2-dichloroethane	0.264	0.314	-18.9	96	0.00	11.29
63	m	Ethyl acrylate		----------NA----------				
64	M	trichloroethene	0.234	0.263	-12.4	91	0.00	11.99
65		tert-Amyl Ethyl Ether		----------NA----------				
66	M	methyl methacrylate	0.145	0.160	-10.3	88	0.00	12.27
67	M	2-nitropropane	0.012	0.012	0.0	81	-0.01	13.18
68	M	2-chloroethyl vinyl ether	0.088	0.112	-27.3#	99	0.00	12.83
69	M	1,2-dichloropropane	0.205	0.231	-12.7	91	0.00	12.28
70	M	dibromomethane	0.128	0.149	-16.4	94	0.00	12.45
71	M	methylcyclohexane	0.359	0.361	-0.6	82	0.00	12.19
72	M	bromodichloromethane	0.293	0.340	-16.0	92	0.00	12.59
73	M	cis-1,3-dichloropropene	0.364	0.415	-14.0	91	0.00	13.06
74	S	toluene-d8 (s)	0.939	0.995	-6.0	92	0.00	13.34
75	M	4-methyl-2-pentanone	0.082	0.092	-12.2	85	0.00	13.15
76	M	toluene	0.640	0.681	-6.4	90	0.00	13.42
77	M	3-methyl-1-butanol	0.011	0.012	-9.1	82	0.00	13.18
78	M	trans-1,3-dichloropropene	0.337	0.388	-15.1	93	0.00	13.65
79	M	ethyl methacrylate	0.272	0.323	-18.7	93	0.00	13.62
80	M	1,1,2-trichloroethane	0.158	0.183	-15.8	93	0.00	13.88
81	M	2-hexanone	0.086	0.094	-9.3	85	0.00	14.05
82	I	chlorobenzene-d5	1.000	1.000	0.0	82	0.00	14.96
83	M	tetrachloroethene	0.254	0.296	-16.5	99	0.00	14.04
84	M	1,3-dichloropropane	0.337	0.372	-10.4	92	0.00	14.08
85	M	butyl acetate	0.148	0.160	-8.1	87	0.00	14.11
86		3,3-dimethyl-1-butanol	0.023	0.025	-8.7	83	0.00	14.23
87	M	dibromochloromethane	0.276	0.324	-17.4	97	0.00	14.36
88	M	1,2-dibromoethane	0.225	0.253	-12.4	95	0.00	14.52
89	M	chlorobenzene	0.756	0.836	-10.6	94	0.00	15.00
90	M	1,1,1,2-tetrachloroethane	0.271	0.320	-18.1	98	0.00	15.06
91	M	ethylbenzene	1.304	1.392	-6.7	91	0.00	15.04
92	M	m,p-xylene	0.522	0.562	-7.7	92	0.00	15.15
93	M	o-xylene	0.502	0.551	-9.8	93	0.00	15.60
94		butyl acrylate		----------NA----------				
95	M	styrene	0.850	0.951	-11.9	93	0.00	15.61

Continuing Calibration Summary

Job Number: JB29314 **Sample:** VO5887-CC5870
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** O133462.D
Project: BMSMC, Building 5 Area, PR

96	M	bromoform	0.211	0.257	-21.8#	99	0.00	15.93
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	86	0.00	17.43
98	M	isopropylbenzene	2.304	2.356	-2.3	91	0.00	15.95
99	S	4-bromofluorobenzene (s)	0.652	0.653	-0.2	96	0.00	16.19
		----------	True	Calc.	% Drift	----------		
100		cyclohexanone	500.000	487.661	2.5	85	0.00	16.18
		----------	AvgRF	CCRF	% Dev	----------		
101	M	bromobenzene	0.609	0.660	-8.4	98	0.00	16.40
102	M	1,1,2,2-tetrachloroethane	0.505	0.521	-3.2	90	0.00	16.31
103	M	trans-1,4-dichloro-2-bute	0.148	0.150	-1.4	88	0.00	16.35
104	M	1,2,3-trichloropropane	0.149	0.156	-4.7	91	0.00	16.39
105	M	n-propylbenzene	0.619	0.638	-3.1	91	0.00	16.39
106		4-Ethyltoluene		----------NA----------				
107	M	2-chlorotoluene	0.557	0.578	-3.8	94	0.00	16.56
108	M	4-chlorotoluene	0.572	0.601	-5.1	93	0.00	16.66
109	M	1,3,5-trimethylbenzene	1.915	1.989	-3.9	93	0.00	16.54
110	M	tert-butylbenzene	1.715	1.809	-5.5	94	0.00	16.92
111	M	pentachloroethane	0.379	0.417	-10.0	96	0.00	17.03
112	M	1,2,4-trimethylbenzene	1.979	1.986	-0.4	90	0.00	16.96
113	M	sec-butylbenzene	2.523	2.588	-2.6	91	0.00	17.14
114	M	1,3-dichlorobenzene	1.171	1.207	-3.1	94	0.00	17.37
115	M	p-isopropyltoluene	2.151	2.209	-2.7	91	0.00	17.27
116	M	1,4-dichlorobenzene	1.211	1.238	-2.2	93	0.00	17.46
117	M	1,2-dichlorobenzene	1.085	1.169	-7.7	97	0.00	17.89
118	M	benzyl chloride	1.134	1.010	10.9	78	0.00	17.59
119		1,4-Diethylbenzene		----------NA----------				
120	M	n-butylbenzene	1.103	1.047	5.1	84	0.00	17.71
121	M	1,2-dibromo-3-chloropropa	0.113	0.105	7.1	87	0.00	18.75
122		1,3,5-TRICHLOROBENZENE	0.926	0.982	-6.0	96	0.00	18.92
123	M	1,2,4-trichlorobenzene	0.861	0.919	-6.7	98	0.00	19.62
124	M	hexachlorobutadiene	0.526	0.582	-10.6	99	0.00	19.71
125	M	naphthalene	1.930	2.013	-4.3	94	0.00	19.93
126	M	1,2,3-trichlorobenzene	0.780	0.865	-10.9	101	0.00	20.21
127	M	hexachloroethane	0.388	0.446	-14.9	98	0.00	18.16
128		1,2,4,5-tetramethylbenzen		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
O133062.D MO5870S.M Tue Feb 26 12:04:55 2013 MSO

6.9.11

6

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205895.D
Acq On : 26 Feb 2013 7:16 pm
Operator : EmilyT
Sample : jb29314-1
Misc : ms43693,vd8399,5.1,,100,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 09:21:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

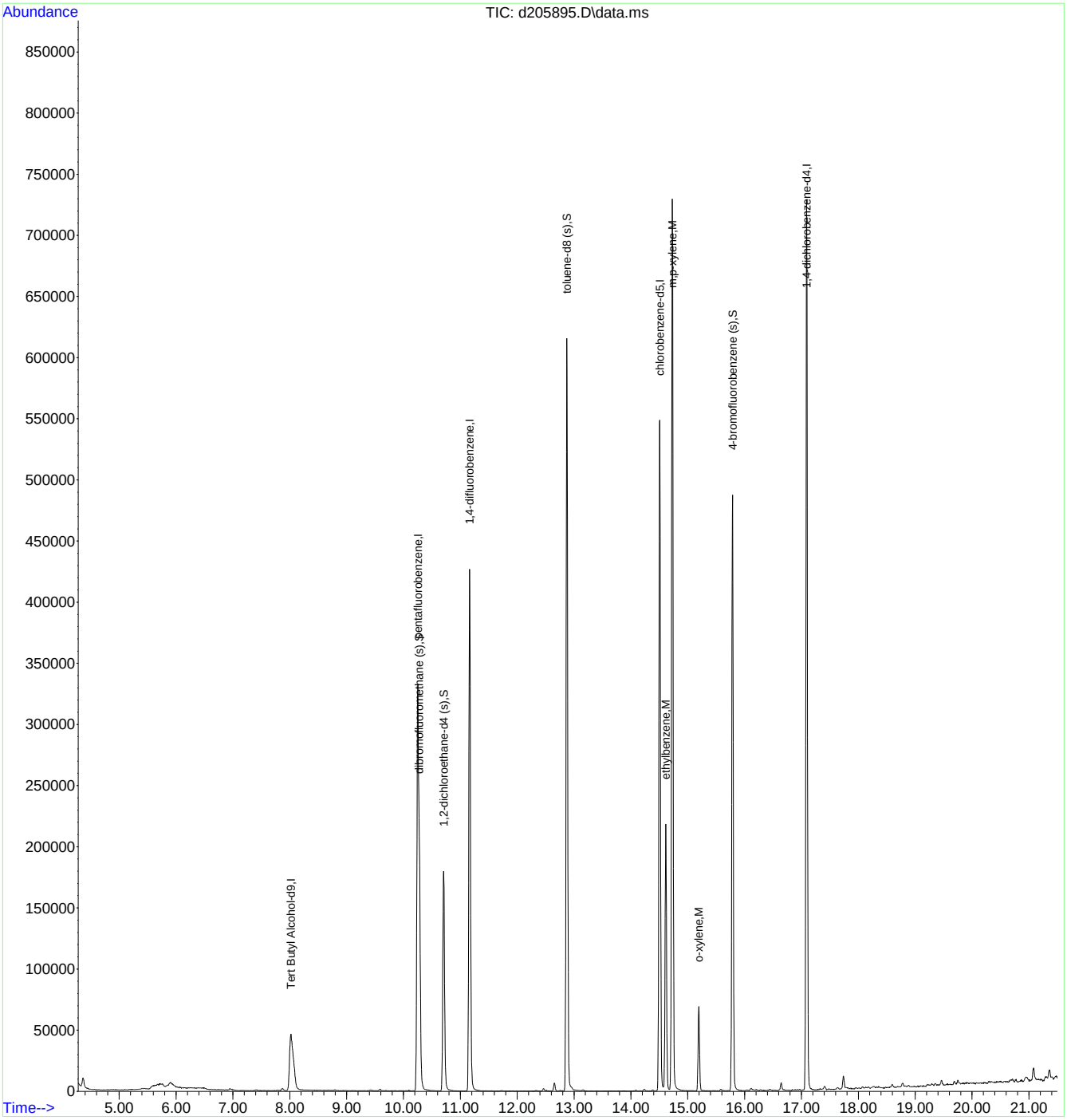
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	134128	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	242344	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.162	114	370490	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	342272	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	205213	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.279	113	110832	46.83 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.66%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	139621	48.86 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.72%		
77) toluene-d8 (s)	12.872	98	434845	48.43 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 96.86%		
101) 4-bromofluorobenzene (s)	15.789	95	179585	48.17 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.34%		
Target Compounds					Qvalue
94) ethylbenzene	14.613	91	168197	13.92 ug/L	100
95) m,p-xylene	14.728	106	230663	47.89 ug/L	98
96) o-xylene	15.193	106	20489	4.29 ug/L	97

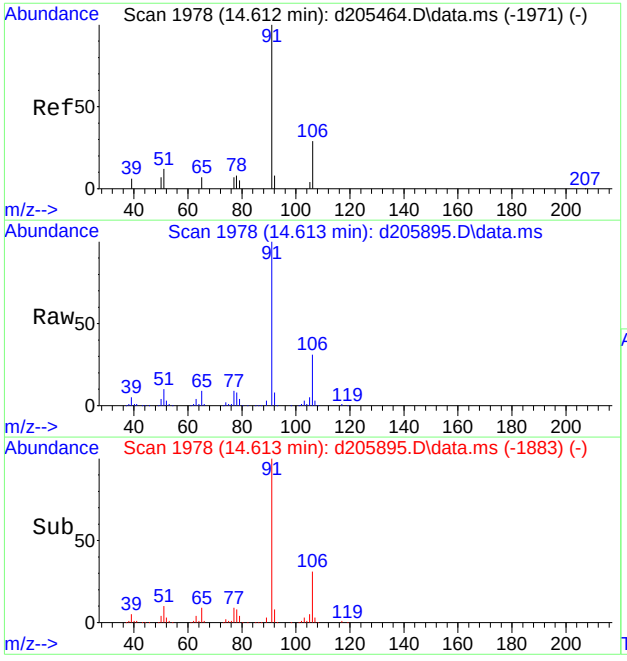
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205895.D
Acq On : 26 Feb 2013 7:16 pm
Operator : EmilyT
Sample : jb29314-1
Misc : ms43693,vd8399,5.1,,100,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 09:21:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

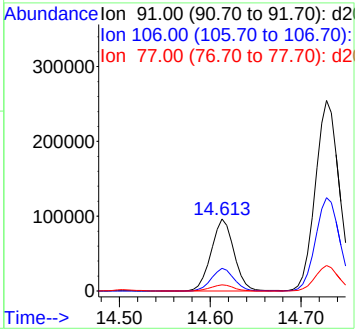


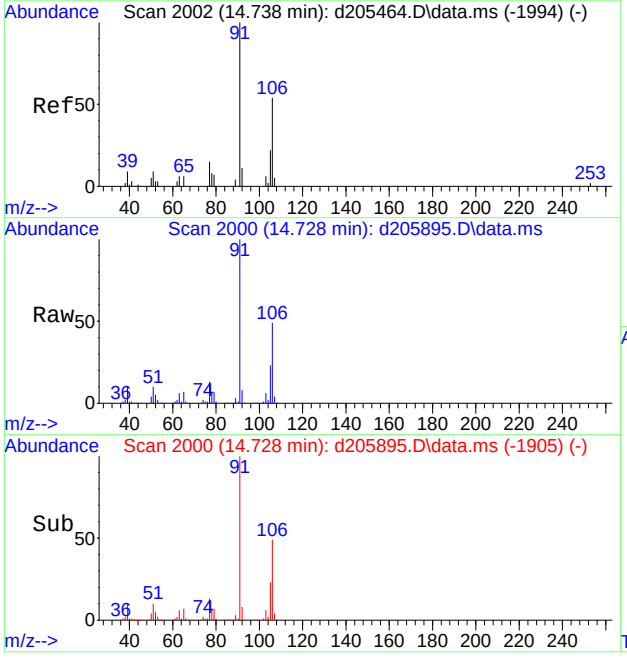


#94
ethylbenzene
Concen: 13.92 ug/L
RT: 14.613 min Scan# 1978
Delta R.T. -0.004 min
Lab File: d205895.D
Acq: 26 Feb 2013 7:16 pm

Tgt Ion: 91 Resp: 168197

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.6	61.6
77	8.6	0.0	38.8

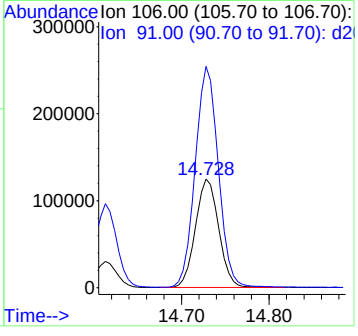


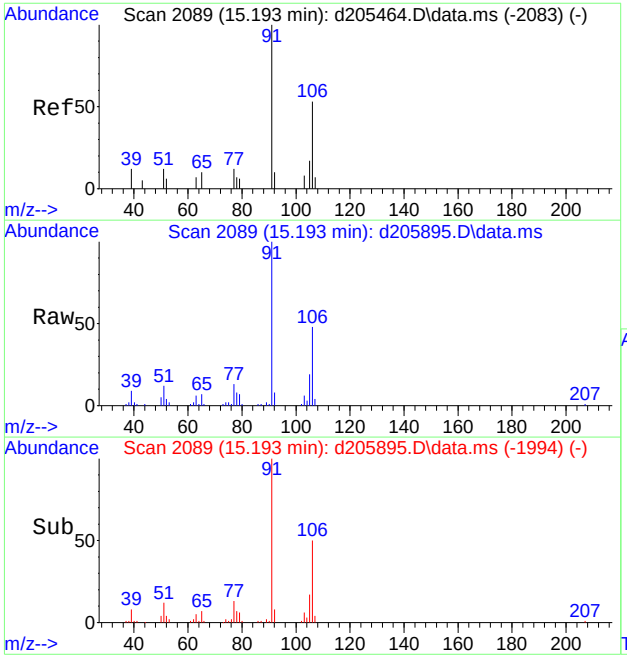


#95
m,p-xylene
Concen: 47.89 ug/L
RT: 14.728 min Scan# 2000
Delta R.T. -0.004 min
Lab File: d205895.D
Acq: 26 Feb 2013 7:16 pm

Tgt Ion:106 Resp: 230663

Ion	Ratio	Lower	Upper
106	100		
91	203.6	139.9	259.9

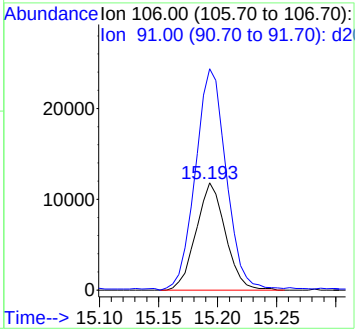




#96
o-xylene
Concen: 4.29 ug/L
RT: 15.193 min Scan# 2089
Delta R.T. -0.004 min
Lab File: d205895.D
Acq: 26 Feb 2013 7:16 pm

Tgt Ion:106 Resp: 20489

Ion	Ratio	Lower	Upper
106	100		
91	206.4	147.9	274.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205896.D
Acq On : 26 Feb 2013 7:45 pm
Operator : EmilyT
Sample : jb29314-2
Misc : ms43693,vd8399,4.6,,10,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 08:56:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.009	65	133438	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	233927	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	355589	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	351192	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.090	152	209400	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.278	113	109939	48.13 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.26%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	138279	50.13 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.26%		
77) toluene-d8 (s)	12.877	98	434436	50.41 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 100.82%		
101) 4-bromofluorobenzene (s)	15.789	95	186583	49.05 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.10%		

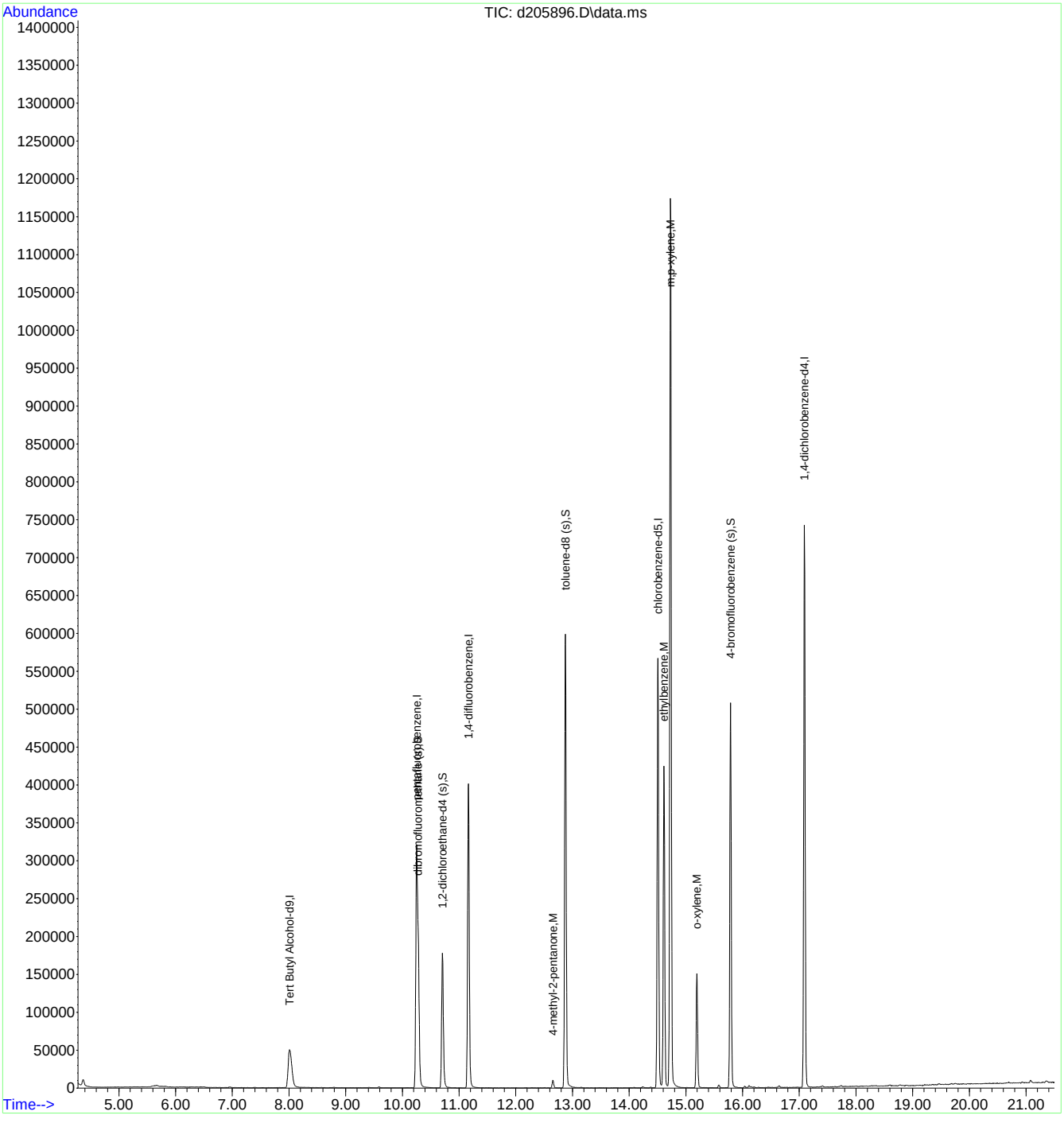
Target Compounds					Qvalue
78) 4-methyl-2-pentanone	12.657	58	3025	2.73 ug/L #	55
94) ethylbenzene	14.612	91	333392	26.88 ug/L	100
95) m,p-xylene	14.727	106	375919	76.06 ug/L	98
96) o-xylene	15.193	106	45066	9.19 ug/L	95

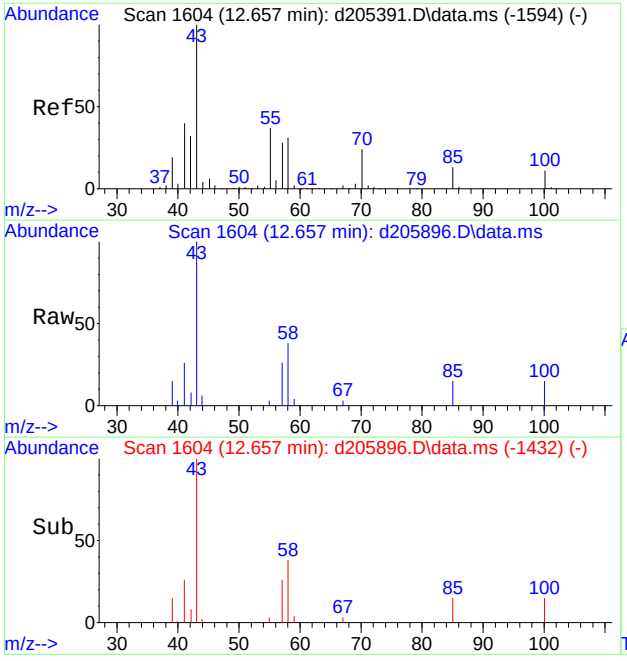
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205896.D
Acq On : 26 Feb 2013 7:45 pm
Operator : EmilyT
Sample : jb29314-2
Misc : ms43693,vd8399,4.6,,10,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 08:56:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

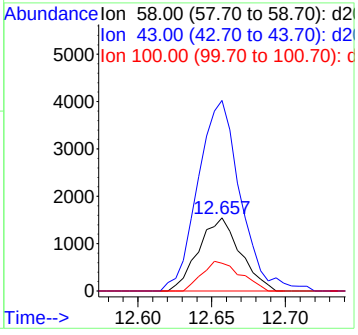


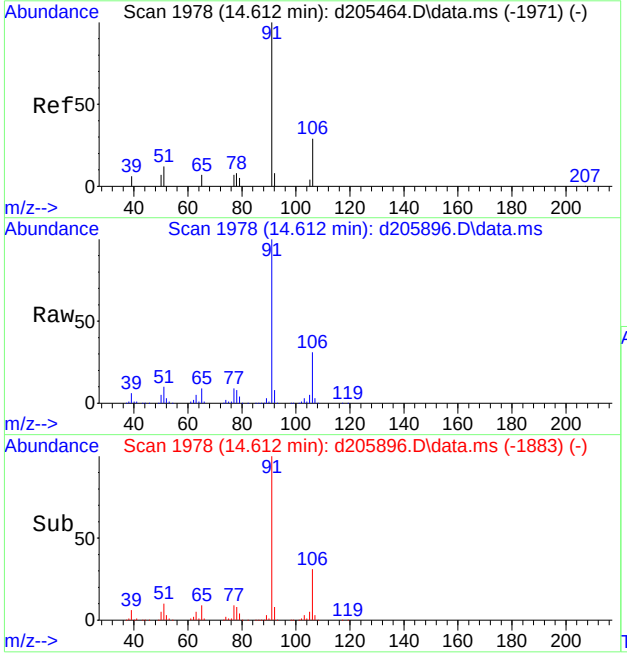


#78
4-methyl-2-pentanone
Concen: 2.73 ug/L
RT: 12.657 min Scan# 1604
Delta R.T. 0.000 min
Lab File: d205896.D
Acq: 26 Feb 2013 7:45 pm

Tgt Ion: 58 Resp: 3025

Ion	Ratio	Lower	Upper
58	100		
43	266.9	349.7	409.7#
100	37.7	5.7	65.7

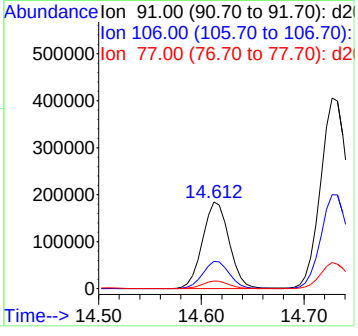




#94
ethylbenzene
Concen: 26.88 ug/L
RT: 14.612 min Scan# 1978
Delta R.T. -0.005 min
Lab File: d205896.D
Acq: 26 Feb 2013 7:45 pm

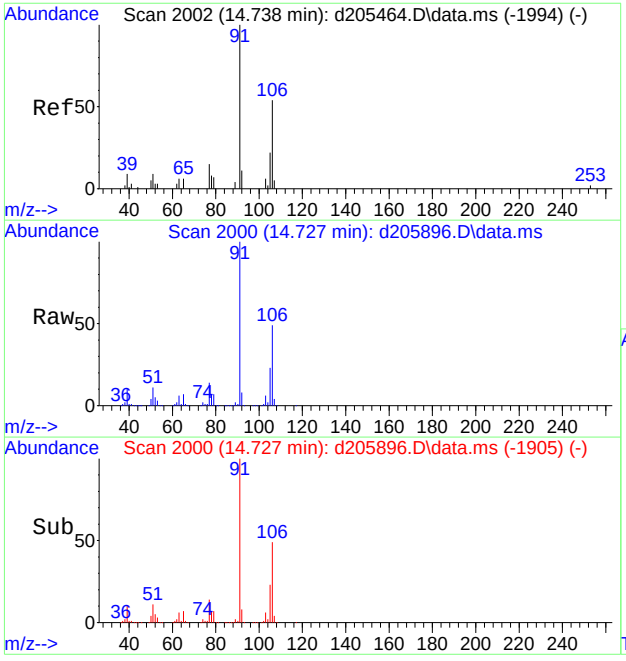
Tgt Ion: 91 Resp: 333392

Ion	Ratio	Lower	Upper
91	100		
106	31.4	1.6	61.6
77	8.7	0.0	38.8



7.1.2

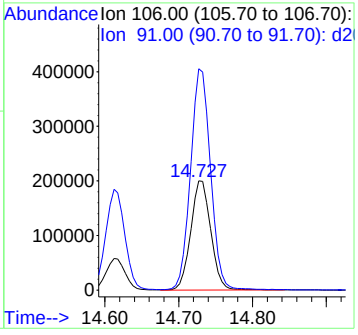
7

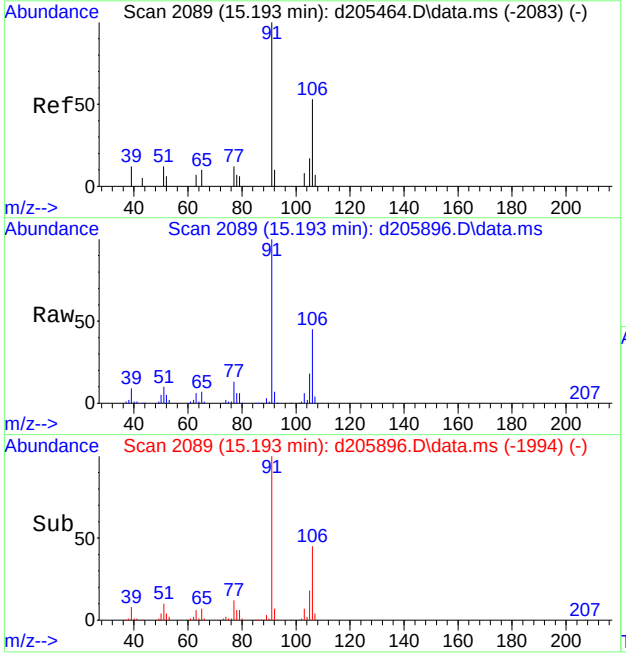


#95
m,p-xylene
Concen: 76.06 ug/L
RT: 14.727 min Scan# 2000
Delta R.T. -0.005 min
Lab File: d205896.D
Acq: 26 Feb 2013 7:45 pm

Tgt Ion:106 Resp: 375919

Ion	Ratio	Lower	Upper
106	100		
91	202.5	139.9	259.9

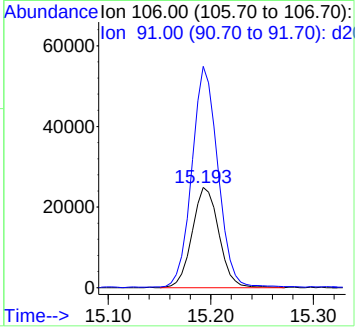




#96
o-xylene
Concen: 9.19 ug/L
RT: 15.193 min Scan# 2089
Delta R.T. -0.005 min
Lab File: d205896.D
Acq: 26 Feb 2013 7:45 pm

Tgt Ion:106 Resp: 45066

Ion	Ratio	Lower	Upper
106	100		
91	219.9	147.9	274.7



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205945.D
Acq On : 27 Feb 2013 9:14 pm
Operator : EmilyT
Sample : jb29314-2
Misc : ms43693,vd8401,4.6,,100,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 08:55:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.025	65	131082	500.00 ug/L	0.01
4) pentafluorobenzene	10.252	168	226941	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	344841	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	320656	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	196574	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.278	113	104940	47.35 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.70%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	132056	49.35 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.70%		
77) toluene-d8 (s)	12.876	98	415785	49.75 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.50%		
101) 4-bromofluorobenzene (s)	15.788	95	169926	47.59 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.18%		

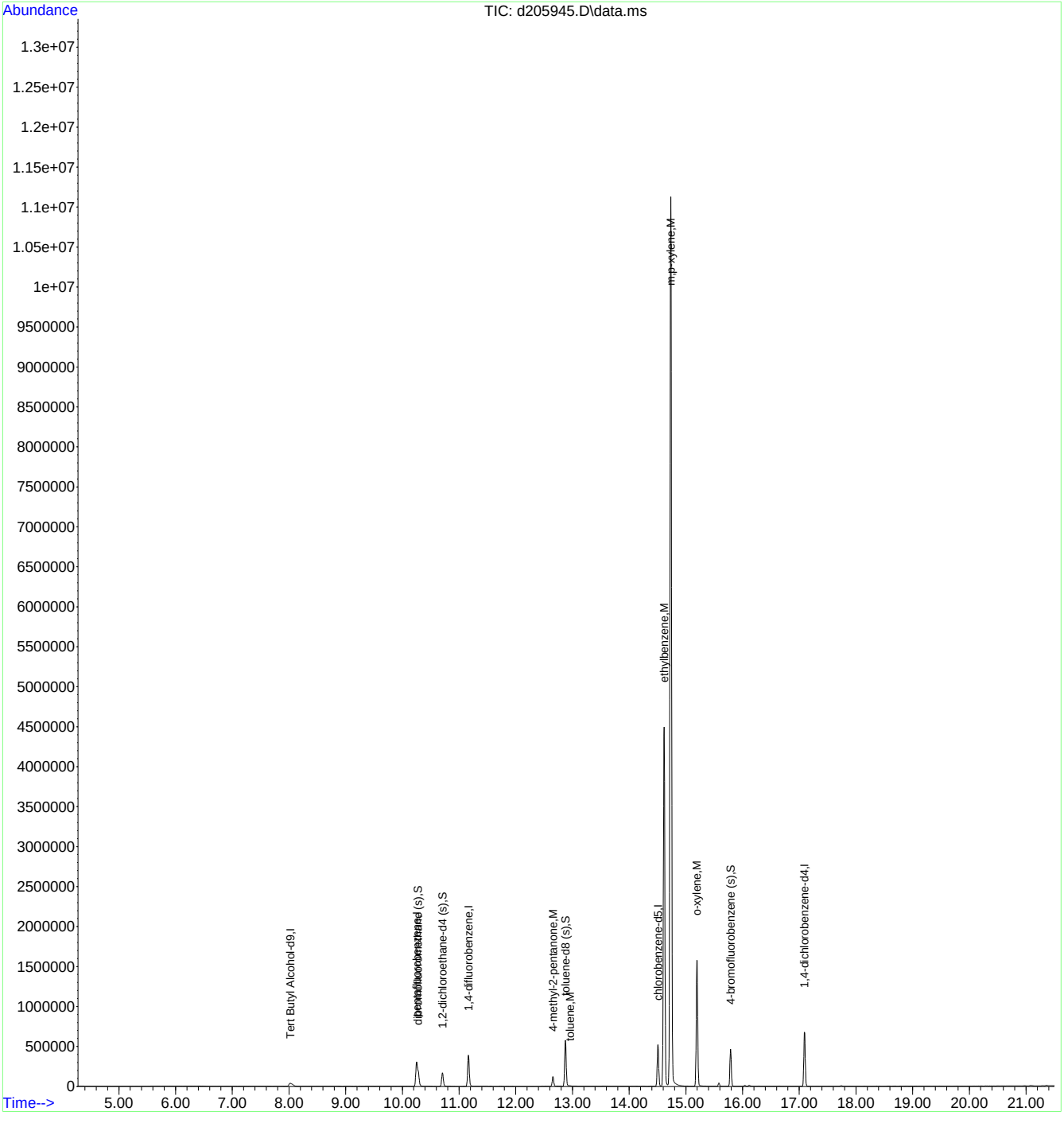
Target Compounds					Qvalue
78) 4-methyl-2-pentanone	12.657	58	35318	32.89 ug/L #	52
79) toluene	12.955	92	1879	0.33 ug/L	98
94) ethylbenzene	14.617	91	3458451	305.41 ug/L	96
95) m,p-xylene	14.732	106	3720383	824.49 ug/L	83
96) o-xylene	15.198	106	480686	107.34 ug/L	99

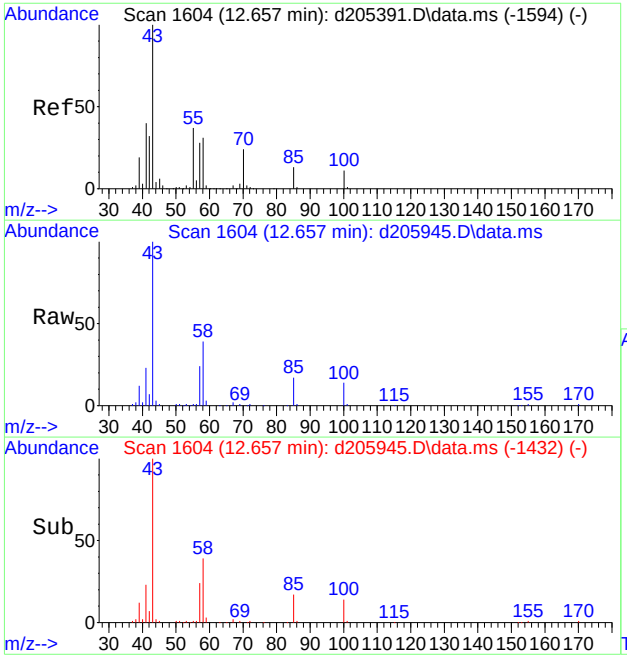
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205945.D
Acq On : 27 Feb 2013 9:14 pm
Operator : EmilyT
Sample : jb29314-2
Misc : ms43693,vd8401,4.6,,100,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 08:55:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

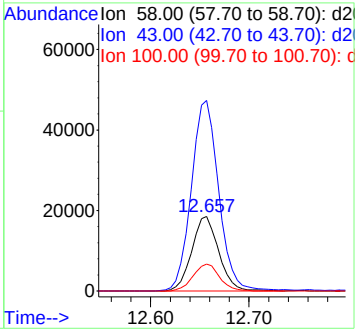


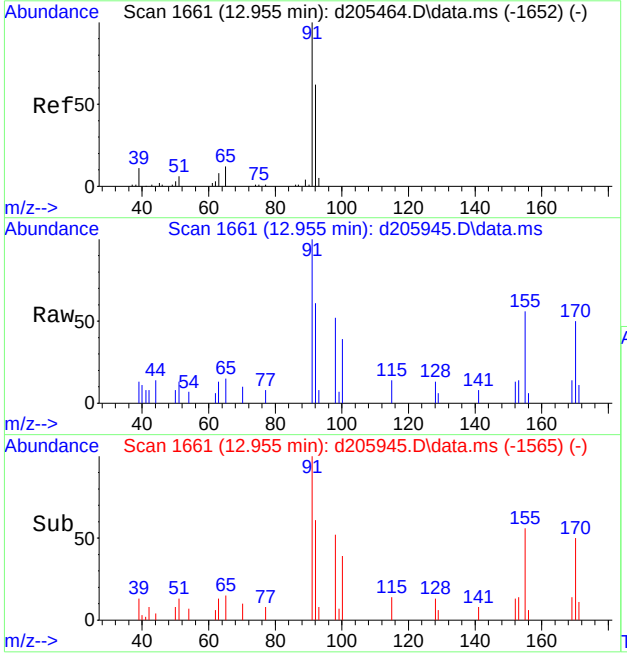


#78
4-methyl-2-pentanone
Concen: 32.89 ug/L
RT: 12.657 min Scan# 1604
Delta R.T. 0.000 min
Lab File: d205945.D
Acq: 27 Feb 2013 9:14 pm

Tgt Ion: 58 Resp: 35318

Ion	Ratio	Lower	Upper
58	100		
43	260.0	349.7	409.7#
100	35.3	5.7	65.7

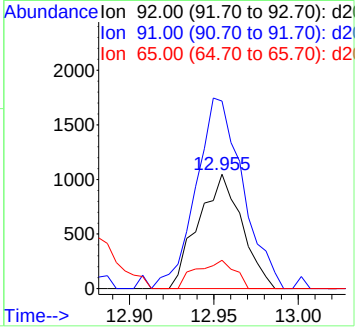




#79
toluene
Concen: 0.33 ug/L
RT: 12.955 min Scan# 1661
Delta R.T. 0.000 min
Lab File: d205945.D
Acq: 27 Feb 2013 9:14 pm

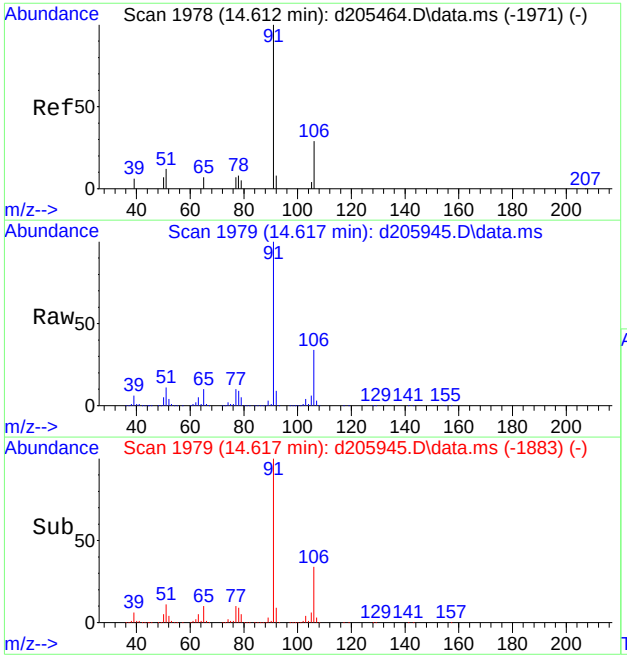
Tgt Ion: 92 Resp: 1879

Ion	Ratio	Lower	Upper
92	100		
91	164.0	136.0	196.0
65	24.7	0.0	49.8



7.1.3

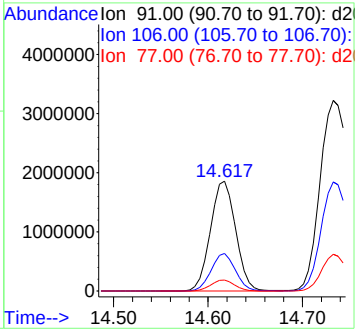
7

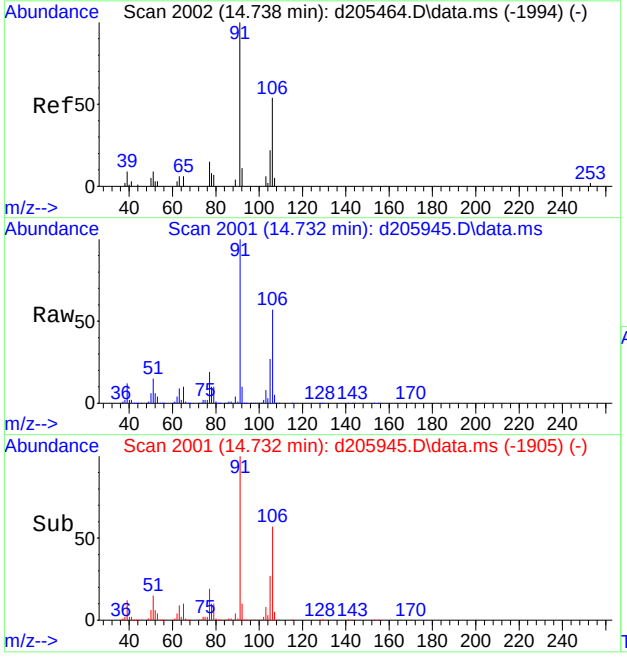


#94
ethylbenzene
Concen: 305.41 ug/L
RT: 14.617 min Scan# 1979
Delta R.T. 0.000 min
Lab File: d205945.D
Acq: 27 Feb 2013 9:14 pm

Tgt Ion: 91 Resp: 3458451

Ion	Ratio	Lower	Upper
91	100		
106	34.1	1.6	61.6
77	9.9	0.0	38.8

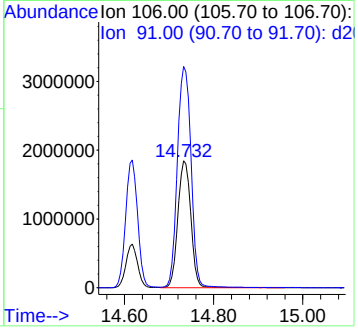


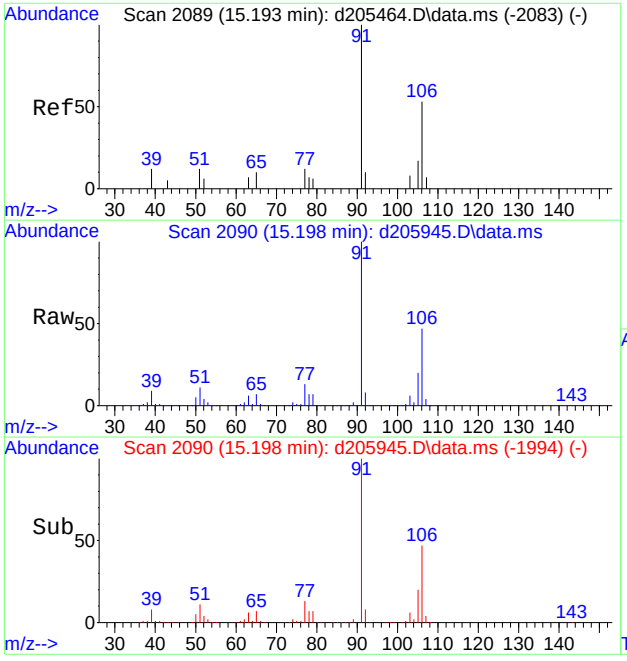


#95
m,p-xylene
Concen: 824.49 ug/L
RT: 14.732 min Scan# 2001
Delta R.T. 0.000 min
Lab File: d205945.D
Acq: 27 Feb 2013 9:14 pm

Tgt Ion:106 Resp: 3720383

Ion	Ratio	Lower	Upper
106	100		
91	174.6	139.9	259.9

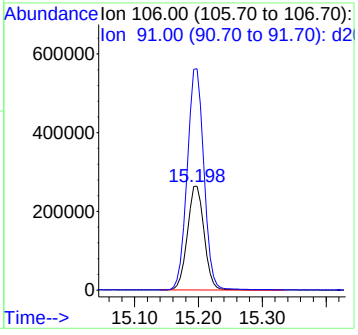




#96
o-xylene
Concen: 107.34 ug/L
RT: 15.198 min Scan# 2090
Delta R.T. 0.000 min
Lab File: d205945.D
Acq: 27 Feb 2013 9:14 pm

Tgt Ion:106 Resp: 480686

Ion	Ratio	Lower	Upper
106	100		
91	212.8	147.9	274.7



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
03/04/13 18:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133469.D
Acq On : 26 Feb 2013 4:21 am
Operator : DIPAP
Sample : jb29314-3
Misc : MS43639,VO5887,4.5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 26 12:10:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	90363	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	212842	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	291839	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	284798	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	175723	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	69909	48.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.14%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	82901	53.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 107.40%			
74) toluene-d8 (s)	13.344	98	290545	53.01	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.02%			
99) 4-bromofluorobenzene (s)	16.194	95	114911	50.12	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.24%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.391	59	2125	13.45	ug/L	87
4) 1,4-dioxane	12.402	88	1291	83.03	ug/L	73
15) ethyl ether	6.978	74	407m	0.52	ug/L	
18) acetone	7.549	43	17141	38.20	ug/L	99
23) carbon disulfide	7.904	76	1826	0.40	ug/L	87
29) 2-butanone	10.117	72	1704	9.31	ug/L #	1
58) benzene	11.252	78	3148	0.60	ug/L	90
91) ethylbenzene	15.043	91	2345	0.32	ug/L	96
92) m,p-xylene	15.148	106	51940	17.46	ug/L	97
93) o-xylene	15.598	106	2486	0.87	ug/L	82
98) isopropylbenzene	15.954	105	11227	1.39	ug/L	96

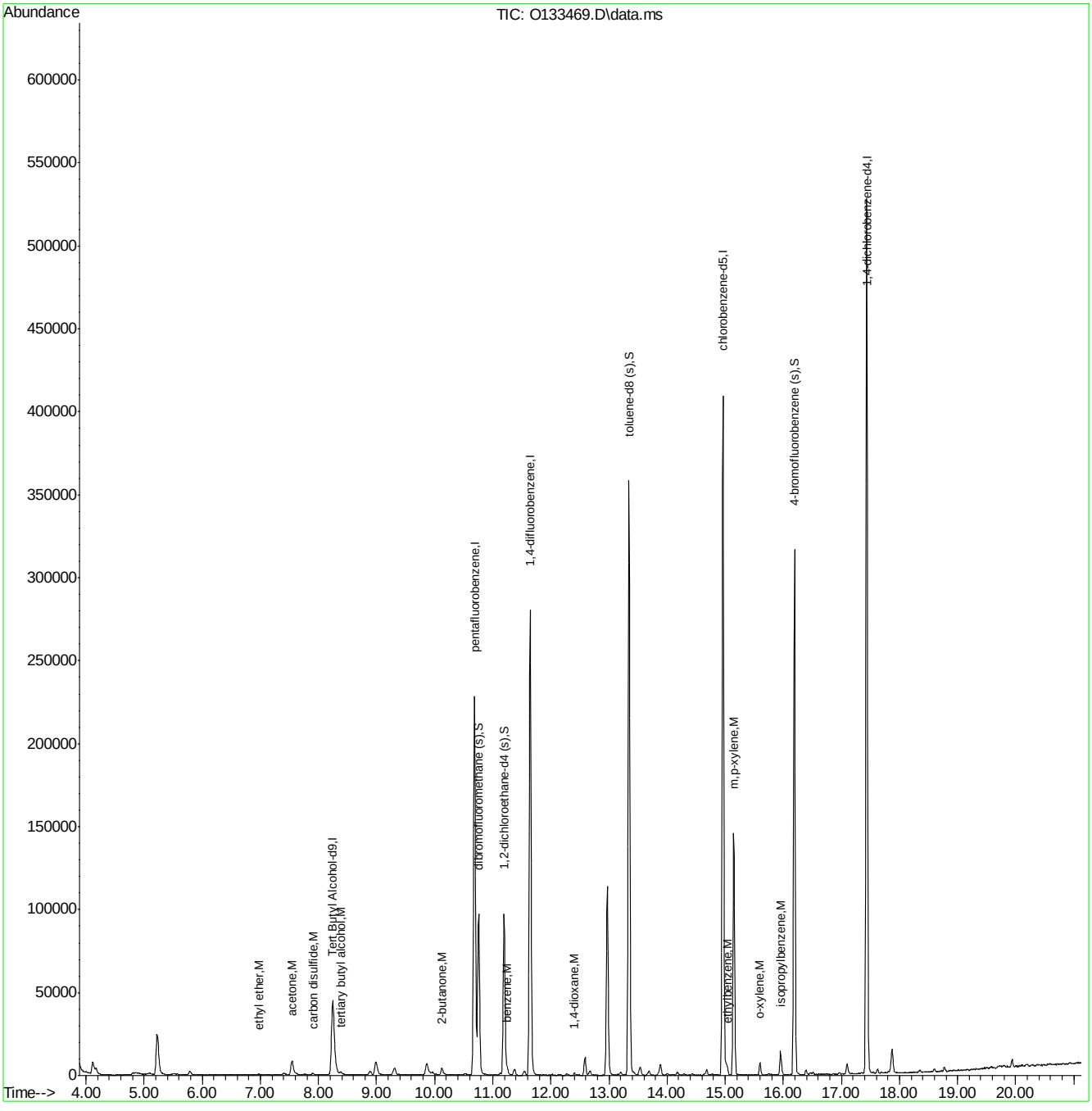
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.4
7

Quantitation Report (QT Reviewed)

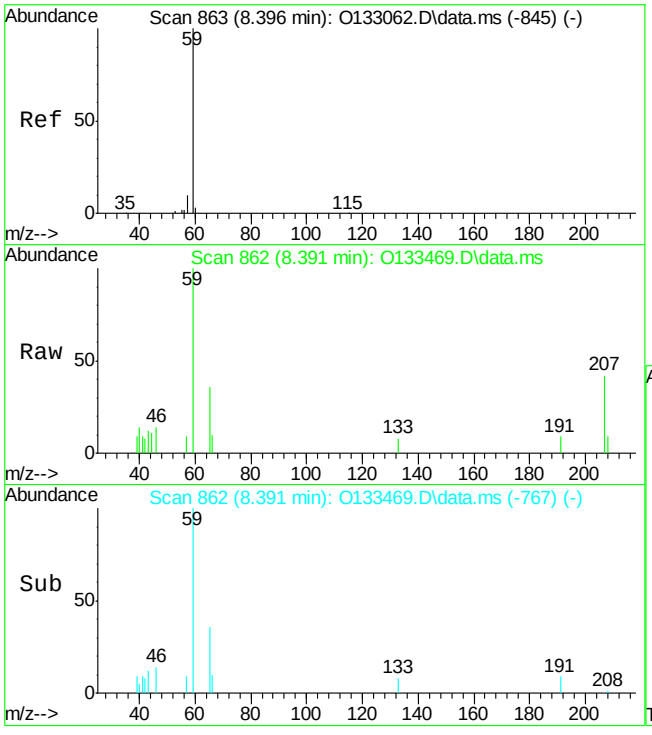
Data Path : C:\msdchem\1\data\
Data File : O133469.D
Acq On : 26 Feb 2013 4:21 am
Operator : DIPAP
Sample : jb29314-3
Misc : MS43639,VO5887,4.5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Feb 26 12:10:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



MO5870S.M Tue Feb 26 12:10:17 2013 MSO

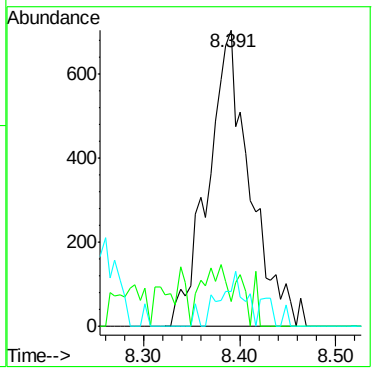
Page: 2

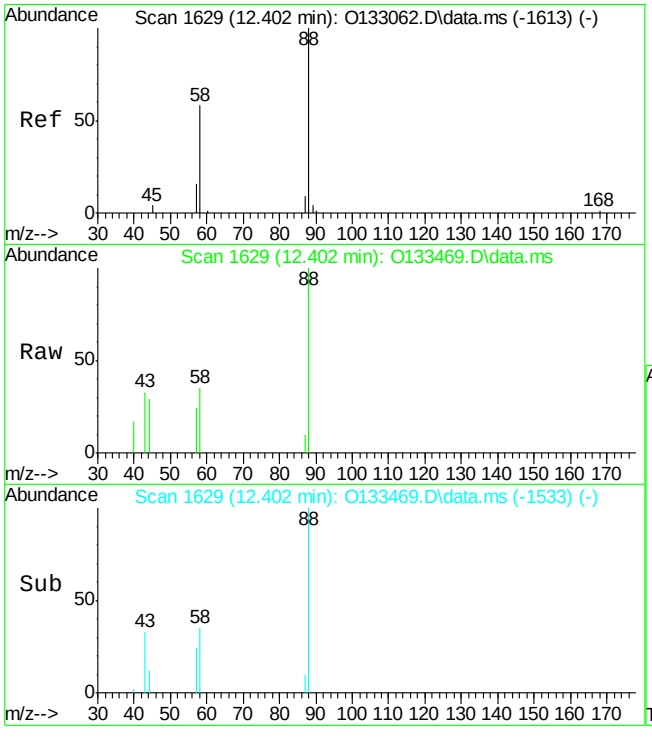


#2
tertiary butyl alcohol
Concen: 13.45 ug/L
RT: 8.391 min Scan# 862
Delta R.T. -0.005 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 59 Resp: 2125

Ion	Ratio	Lower	Upper
59	100		
41	8.5	0.0	47.9
43	11.9	0.0	43.0

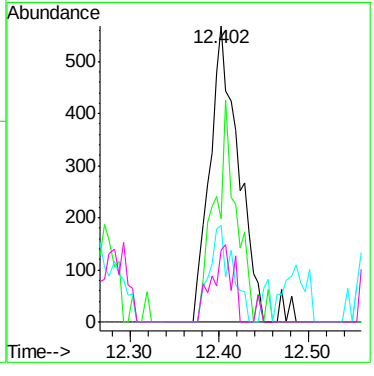


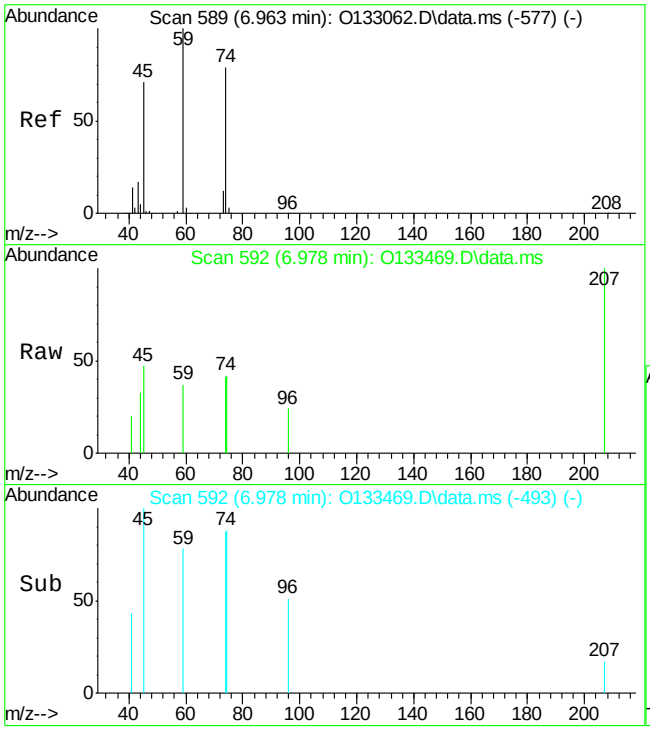


#4
1,4-dioxane
Concen: 83.03 ug/L
RT: 12.402 min Scan# 1629
Delta R.T. 0.000 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 88 Resp: 1291

Ion	Ratio	Lower	Upper
88	100		
58	35.0	29.6	89.6
43	32.7	0.0	49.4
57	24.3	0.0	50.9

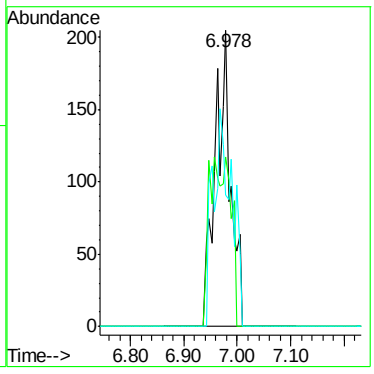


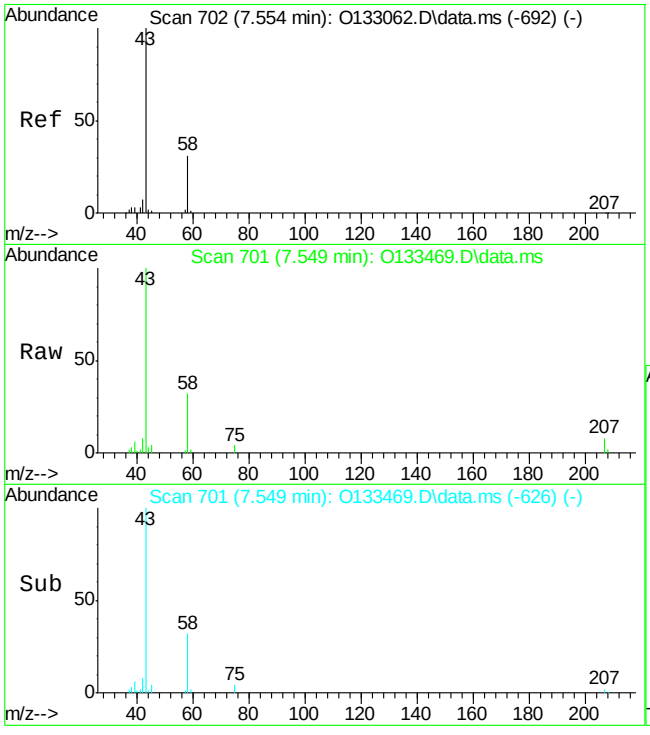


#15
ethyl ether
Concen: 0.52 ug/L m
RT: 6.978 min Scan# 592
Delta R.T. 0.015 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 74 Resp: 407

Ion	Ratio	Lower	Upper
74	100		
45	113.6	62.4	122.4
59	88.3	97.1	157.1#

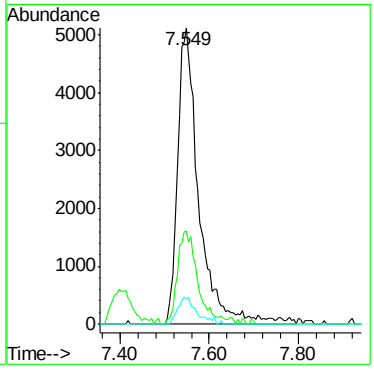


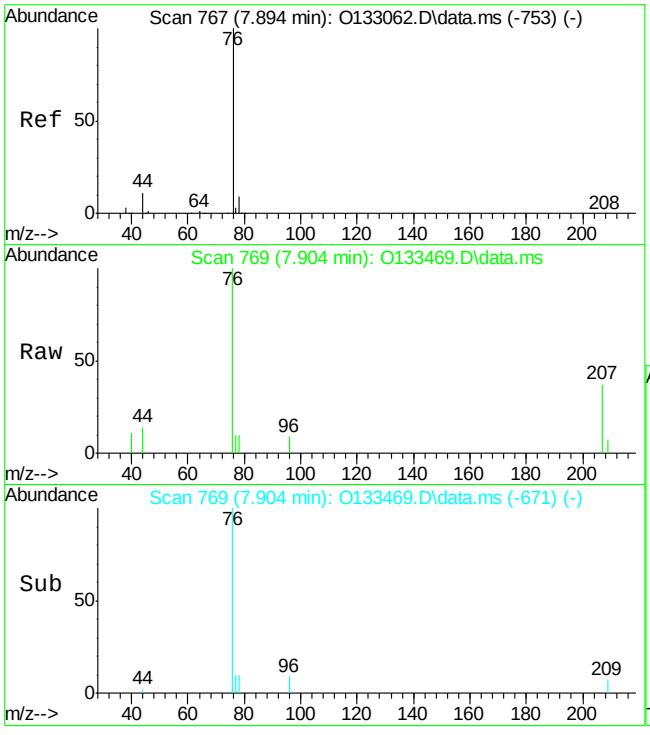


#18
acetone
Concen: 38.20 ug/L
RT: 7.549 min Scan# 701
Delta R.T. -0.005 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 43 Resp: 17141

Ion	Ratio	Lower	Upper
43	100		
58	31.5	1.5	61.5
42	8.2	0.0	36.7

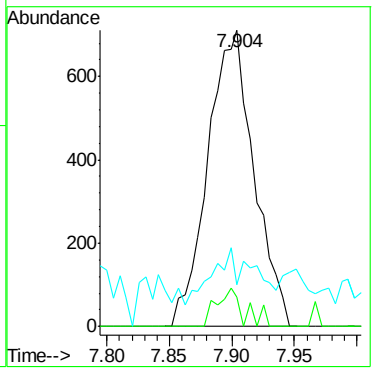


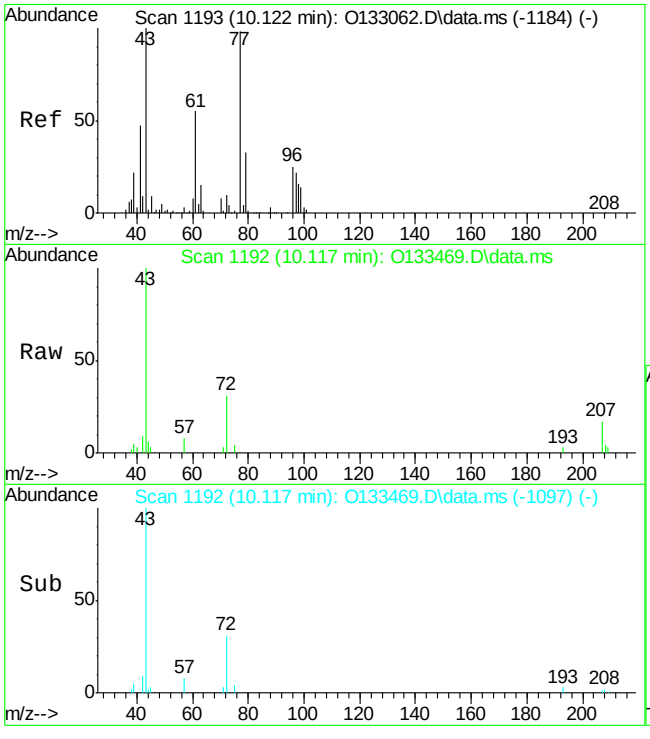


#23
carbon disulfide
Concen: 0.40 ug/L
RT: 7.904 min Scan# 769
Delta R.T. 0.010 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 76 Resp: 1826

Ion	Ratio	Lower	Upper
76	100		
78	10.0	0.0	39.4
44	2.0	0.0	40.7

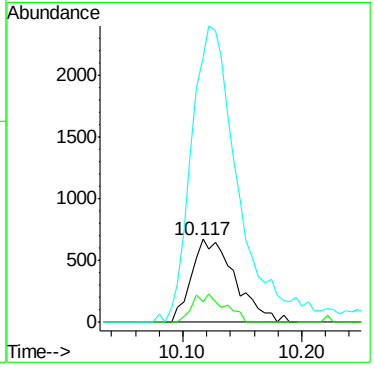




#29
2-butanone
Concen: 9.31 ug/L
RT: 10.117 min Scan# 1192
Delta R.T. -0.005 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

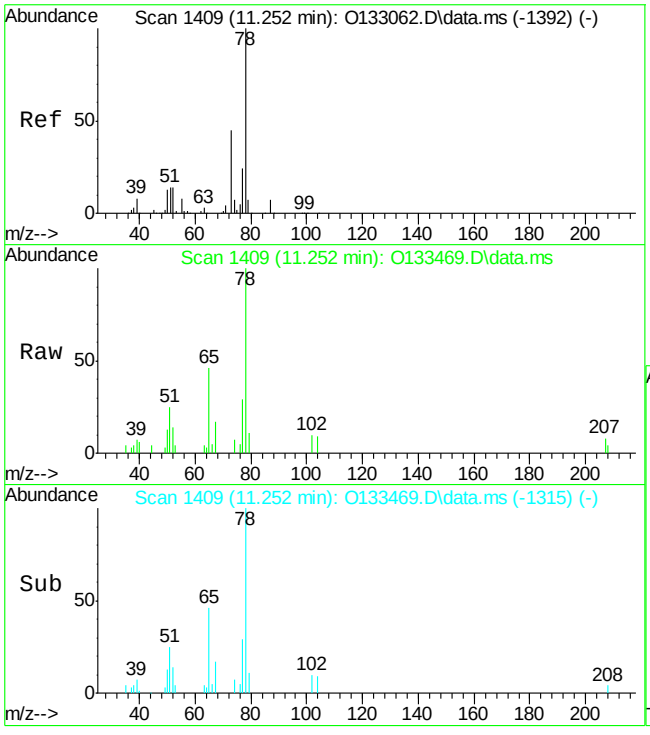
Tgt Ion: 72 Resp: 1704

Ion	Ratio	Lower	Upper
72	100		
57	24.7	0.5	60.5
43	319.5	1015.4	1075.4#



7.1.4

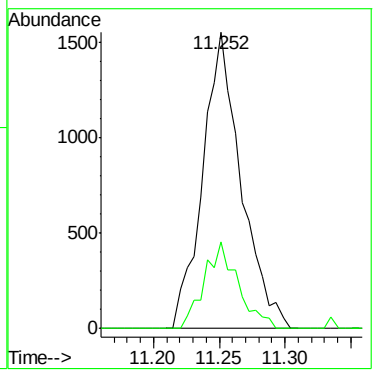
7

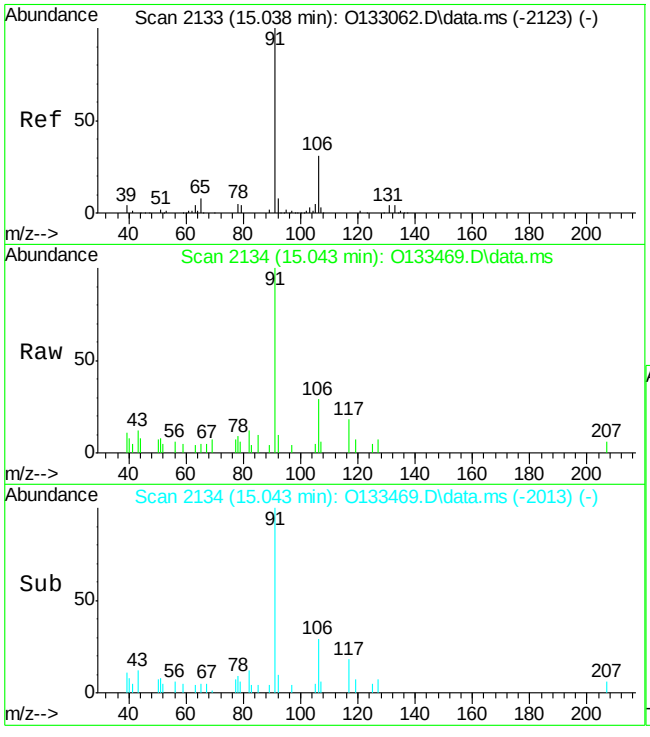


#58
benzene
Concen: 0.60 ug/L
RT: 11.252 min Scan# 1409
Delta R.T. -0.000 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 78 Resp: 3148

Ion	Ratio	Lower	Upper
78	100		
77	29.1	0.0	54.1

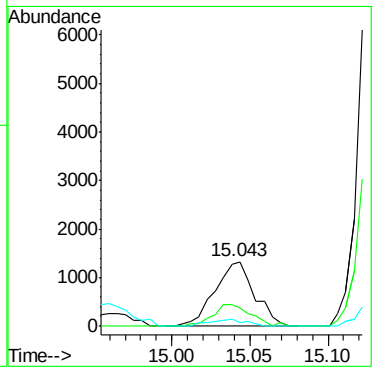


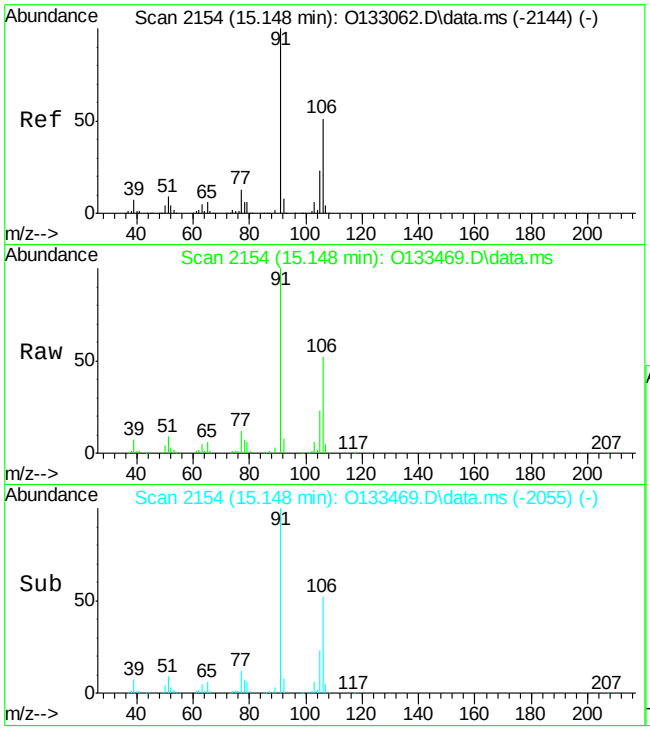


#91
ethylbenzene
Concen: 0.32 ug/L
RT: 15.043 min Scan# 2134
Delta R.T. 0.005 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion: 91 Resp: 2345

Ion	Ratio	Lower	Upper
91	100		
106	28.8	0.9	60.9
65	5.3	0.0	37.9

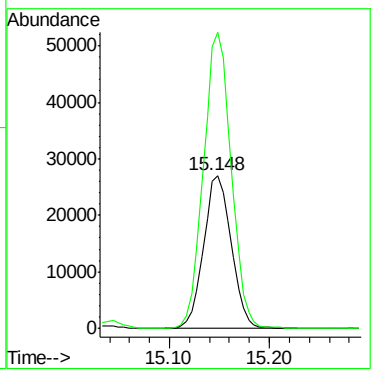


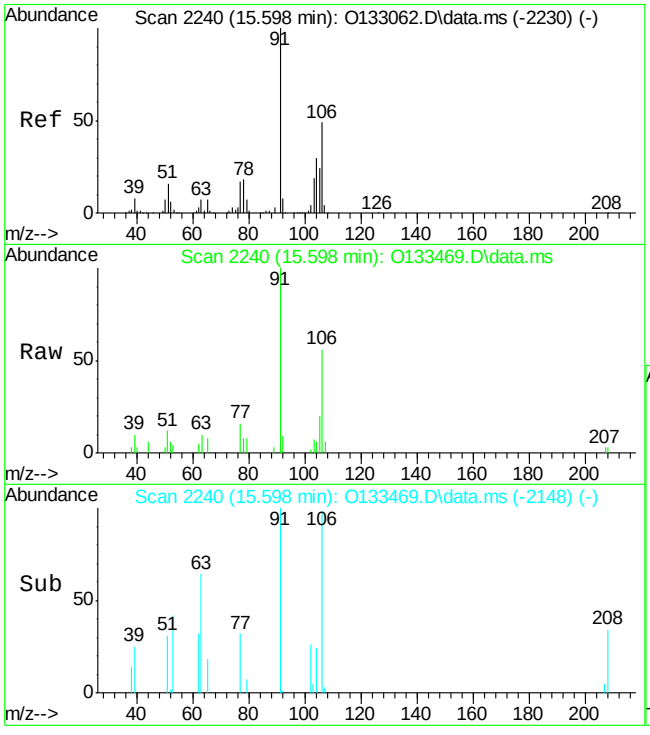


#92
m,p-xylene
Concen: 17.46 ug/L
RT: 15.148 min Scan# 2154
Delta R.T. 0.000 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion:106 Resp: 51940

Ion	Ratio	Lower	Upper
106	100		
91	193.8	167.9	227.9

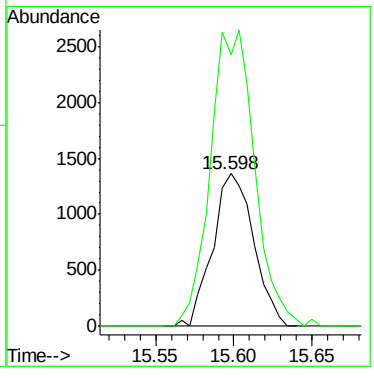


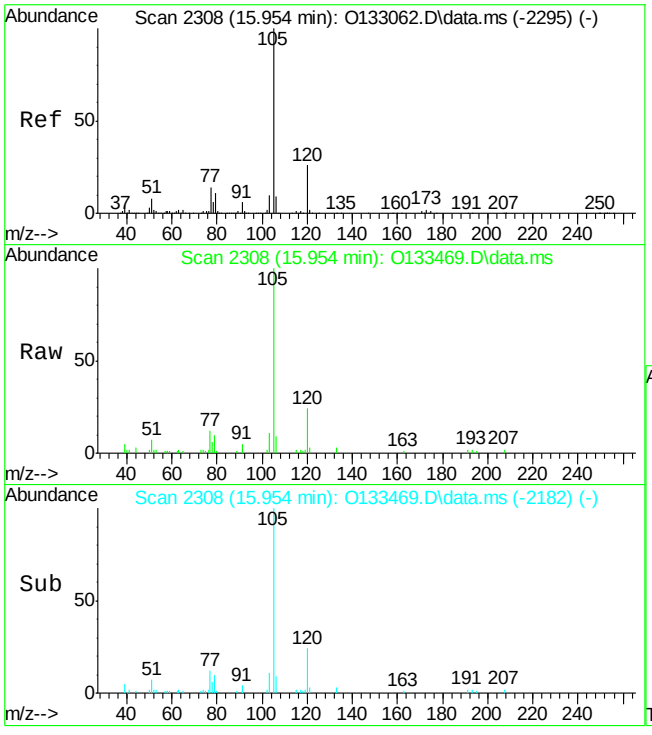


#93
o-xylene
Concen: 0.87 ug/L
RT: 15.598 min Scan# 2240
Delta R.T. -0.000 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion:106 Resp: 2486

Ion	Ratio	Lower	Upper
106	100		
91	177.8	176.1	236.1

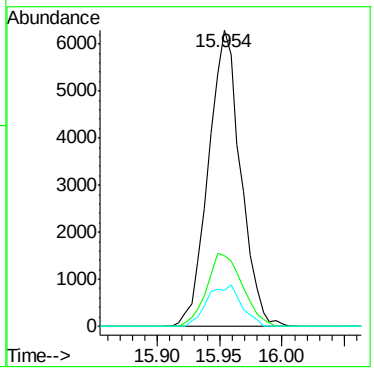




#98
isopropylbenzene
Concen: 1.39 ug/L
RT: 15.954 min Scan# 2308
Delta R.T. -0.000 min
Lab File: O133469.D
Acq: 26 Feb 2013 4:21 am

Tgt Ion:105 Resp: 11227

Ion	Ratio	Lower	Upper
105	100		
120	24.0	0.0	55.6
77	12.3	0.0	44.1



7.1.4

7

Manual Integration Approval Summary

Sample Number:	JB29314-3	**Method:**	SW846 8260B
Lab FileID:	O133469.D	**Analyst approved:**	03/04/13 18:38 Kanya Veerawat
Injection Time:	02/26/13 04:21	**Supervisor approved:**	03/04/13 18:43 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Ether	60-29-7		6.98	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182045.D
Acq On : 6 Mar 2013 4:13 pm
Operator : SCOTTM
Sample : JB29314-4,VSL
Misc : MS43693,VI7353,4.4,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 10:38:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.207	65	55597	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	207029	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	288520	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	239610	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	127675	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.508	113	78406	51.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.96%			
47) 1,2-dichloroethane-d4...	9.931	65	76349	52.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 105.20%			
76) toluene-d8 (s)	12.039	98	298637	53.17	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.34%			
91) 4-bromofluorobenzene (s)	14.712	95	103084	55.04	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 110.08%			

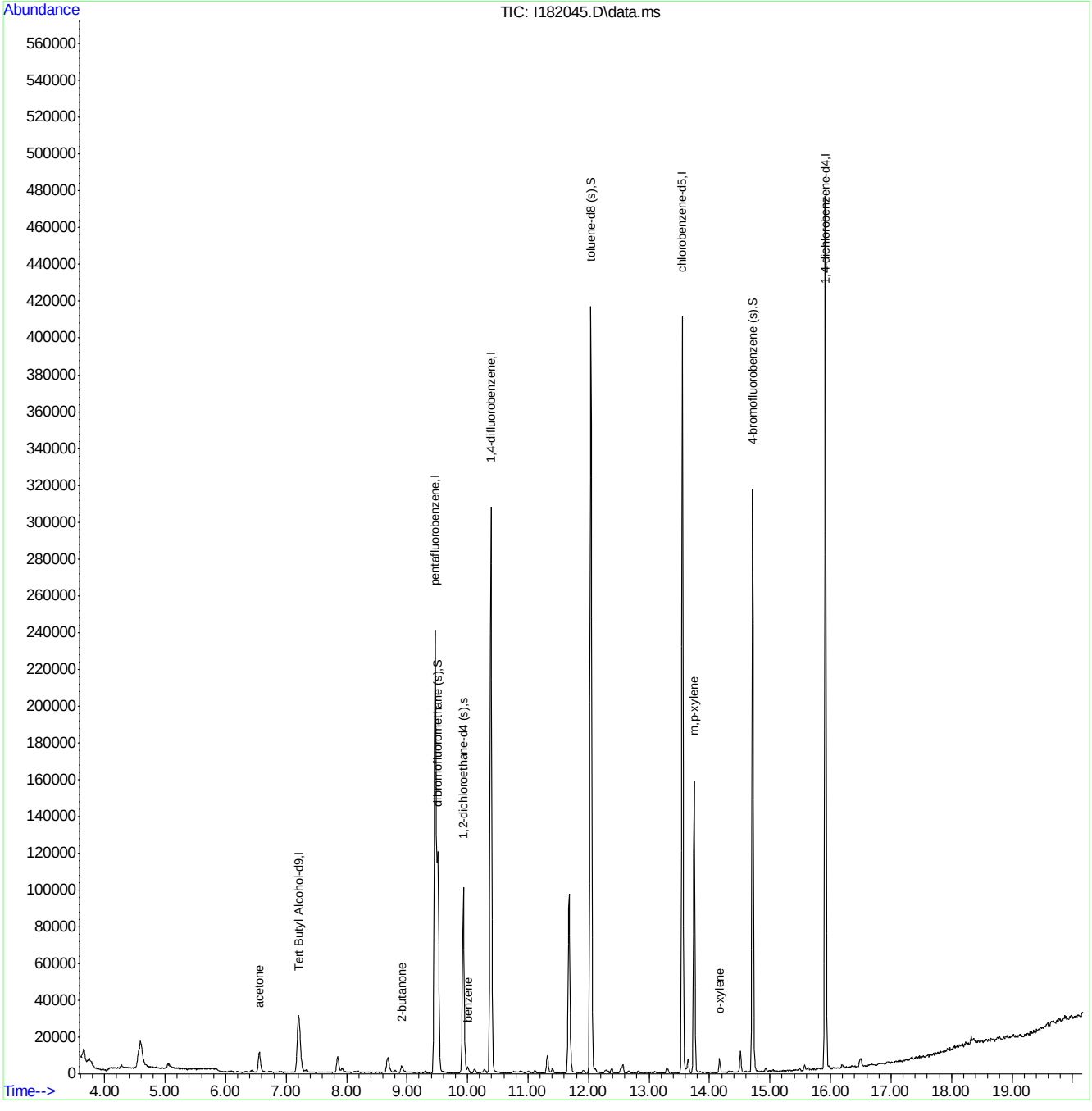
Target Compounds						Qvalue
17) acetone	6.558	58	5283	60.06	ug/L #	83
33) 2-butanone	8.906	72	1635	13.76	ug/L #	43
51) benzene	10.005	78	3071	0.48	ug/L	97
86) m,p-xylene	13.750	106	47421	16.45	ug/L	100
87) o-xylene	14.173	106	2229	0.79	ug/L	97

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

Quantitation Report (QT Reviewed)

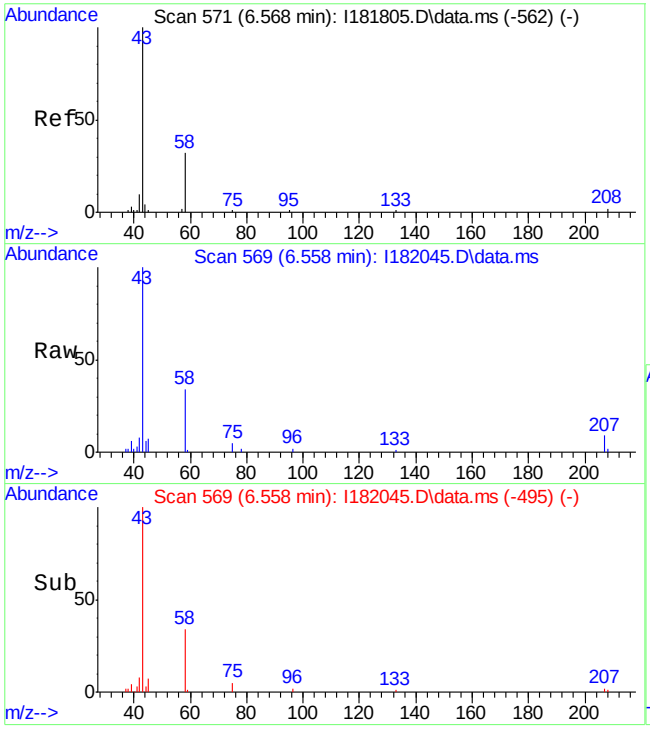
Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182045.D
Acq On : 6 Mar 2013 4:13 pm
Operator : SCOTTM
Sample : JB29314-4,VSL
Misc : MS43693,VI7353,4.4,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 10:38:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



MI7342.M Thu Mar 07 10:38:57 2013 RPT1

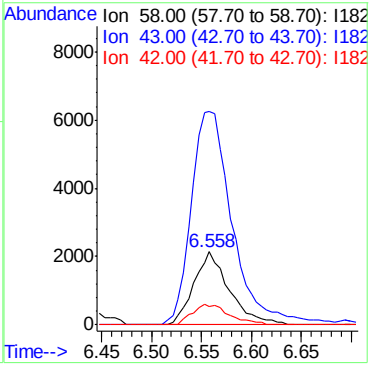
ACCUTEST LABORATORIES JB29314

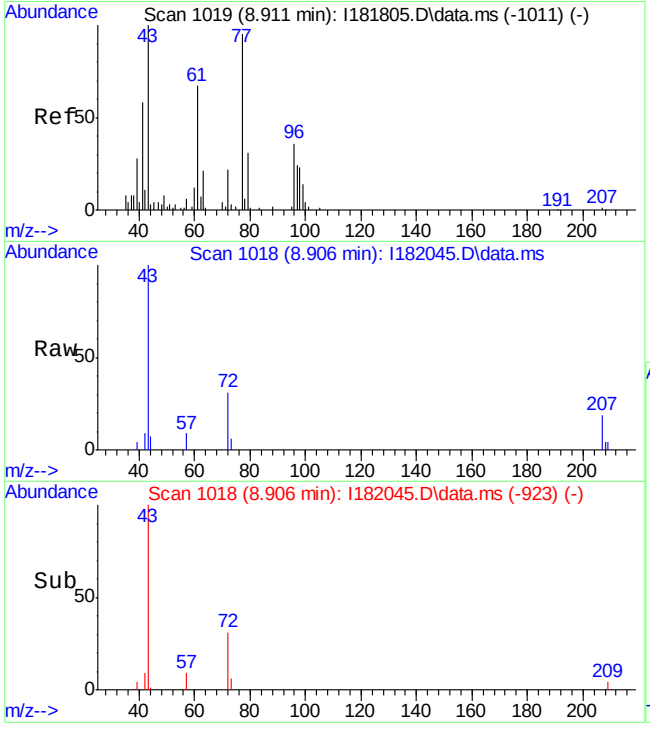


#17
acetone
Concen: 60.06 ug/L
RT: 6.558 min Scan# 569
Delta R.T. -0.010 min
Lab File: I182045.D
Acq: 6 Mar 2013 4:13 pm

Tgt Ion: 58 Resp: 5283

Ion	Ratio	Lower	Upper
58	100		
43	292.3	298.8	358.8#
42	24.7	0.6	60.6

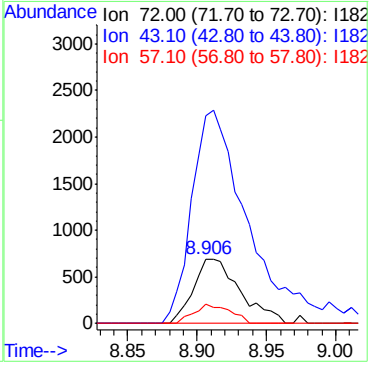


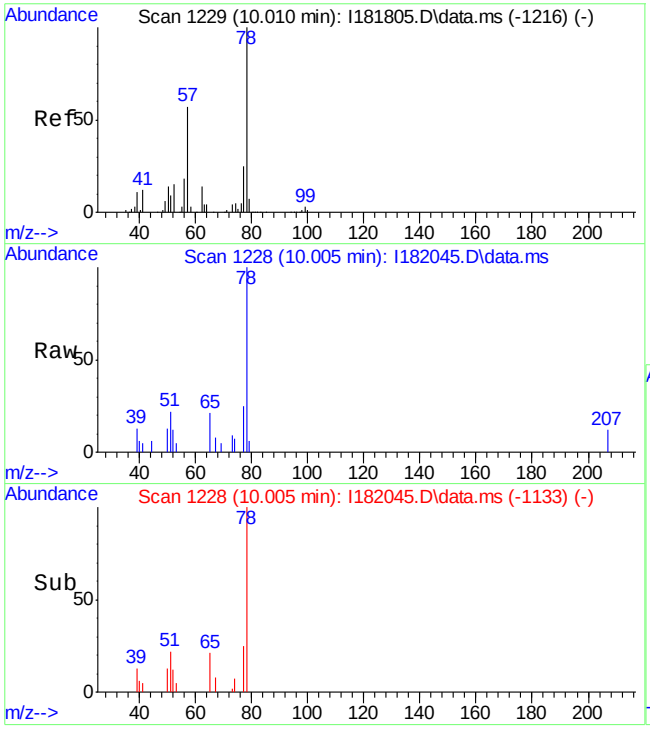


#33
2-butanone
Concen: 13.76 ug/L
RT: 8.906 min Scan# 1018
Delta R.T. -0.005 min
Lab File: I182045.D
Acq: 6 Mar 2013 4:13 pm

Tgt Ion: 72 Resp: 1635

Ion	Ratio	Lower	Upper
72	100		
43	404.6	0.0	0.0#
57	0.0	22.0	41.0#

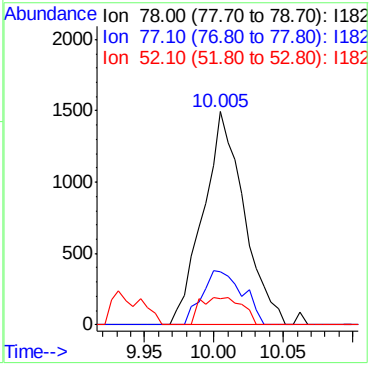


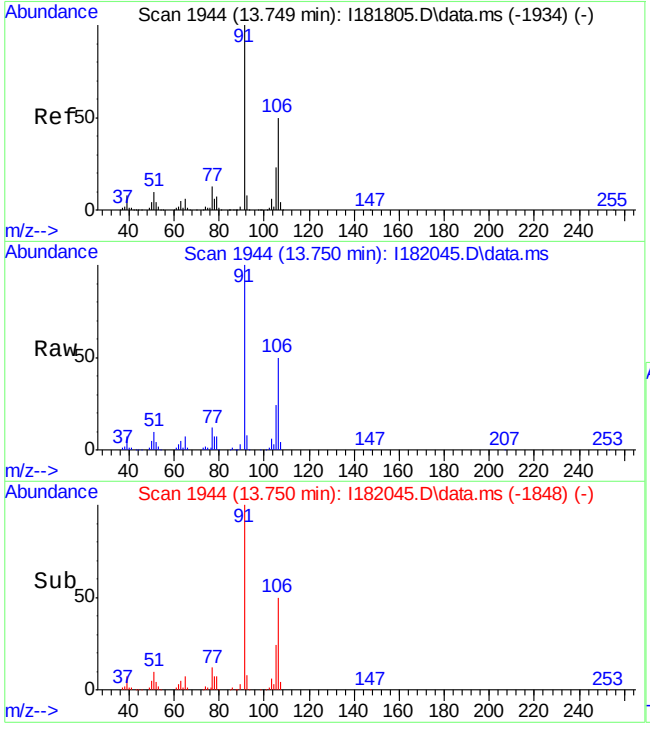


#51
benzene
Concen: 0.48 ug/L
RT: 10.005 min Scan# 1228
Delta R.T. -0.005 min
Lab File: I182045.D
Acq: 6 Mar 2013 4:13 pm

Tgt Ion: 78 Resp: 3071

Ion	Ratio	Lower	Upper
78	100		
77	24.6	0.0	54.7
52	12.2	0.0	45.4

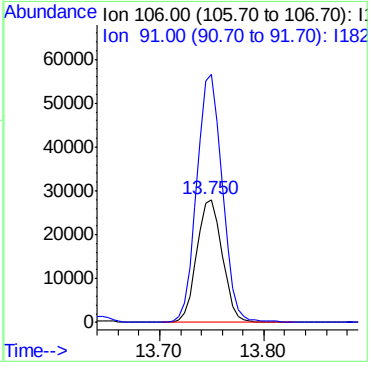


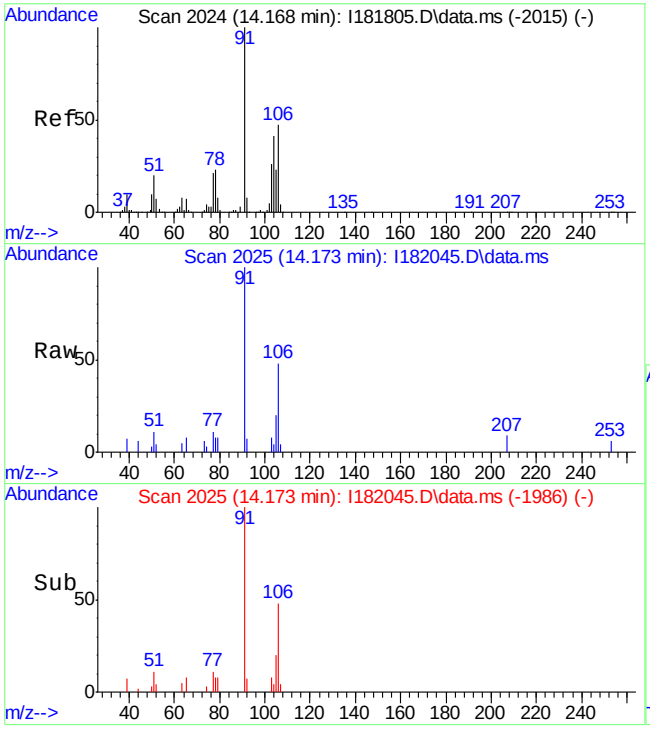


#86
m,p-xylene
Concen: 16.45 ug/L
RT: 13.750 min Scan# 1944
Delta R.T. 0.000 min
Lab File: I182045.D
Acq: 6 Mar 2013 4:13 pm

Tgt Ion:106 Resp: 47421

Ion	Ratio	Lower	Upper
106	100		
91	201.9	141.1	262.1

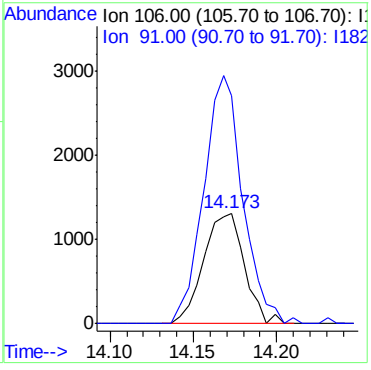




#87
o-xylene
Concen: 0.79 ug/L
RT: 14.173 min Scan# 2025
Delta R.T. 0.005 min
Lab File: I182045.D
Acq: 6 Mar 2013 4:13 pm

Tgt Ion:106 Resp: 2229

Ion	Ratio	Lower	Upper
106	100		
91	206.3	148.3	275.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133464.D
Acq On : 26 Feb 2013 1:50 am
Operator : DIPAP
Sample : mb2
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 26 12:05:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	112471	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	216486	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	298088	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	286571	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	177196	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	69948	47.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.58%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	79806	50.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 101.64%			
74) toluene-d8 (s)	13.349	98	293651	52.45	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 104.90%			
99) 4-bromofluorobenzene (s)	16.194	95	114725	49.62	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.24%			

Target Compounds Qvalue

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

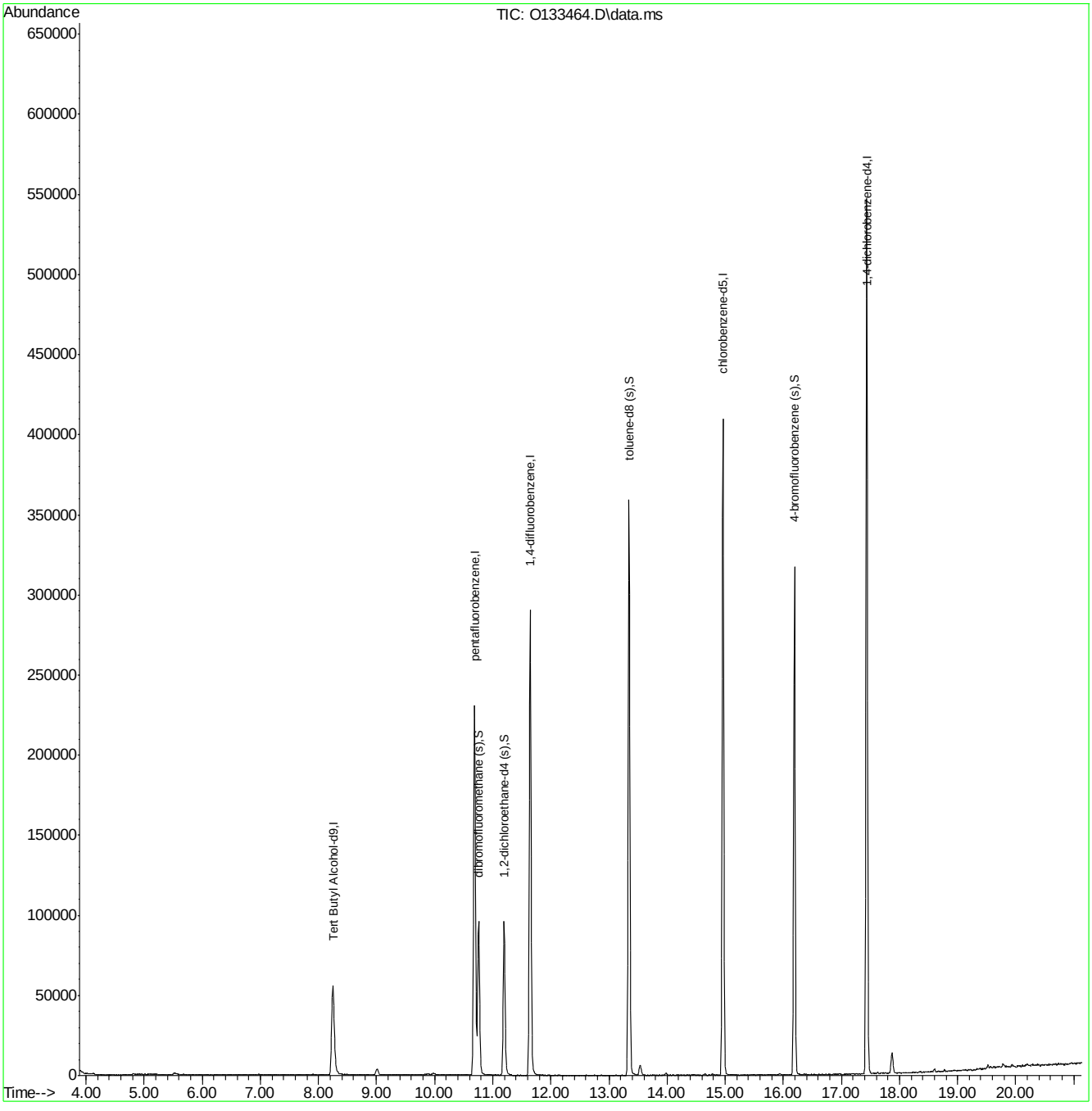
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133464.D
Acq On : 26 Feb 2013 1:50 am
Operator : DIPAP
Sample : mb2
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 26 12:05:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



MO5870S.M Tue Feb 26 12:05:40 2013 MSO

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205881.D
Acq On : 26 Feb 2013 11:31 am
Operator : EmilyT
Sample : mb
Misc : ms43706,vd8399,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 17:00:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.047	65	126933	500.00 ug/L	0.03
4) pentafluorobenzene	10.243	168	237105	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	360143	50.00 ug/L	0.00
85) chlorobenzene-d5	14.504	117	329895	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.092	152	198009	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.279	113	108904	47.03 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.06%		
47) 1,2-dichloroethane-d4 (s)	10.703	65	138816	49.65 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.30%		
77) toluene-d8 (s)	12.873	98	429011	49.16 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.32%		
101) 4-bromofluorobenzene (s)	15.785	95	171969	47.81 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.62%		

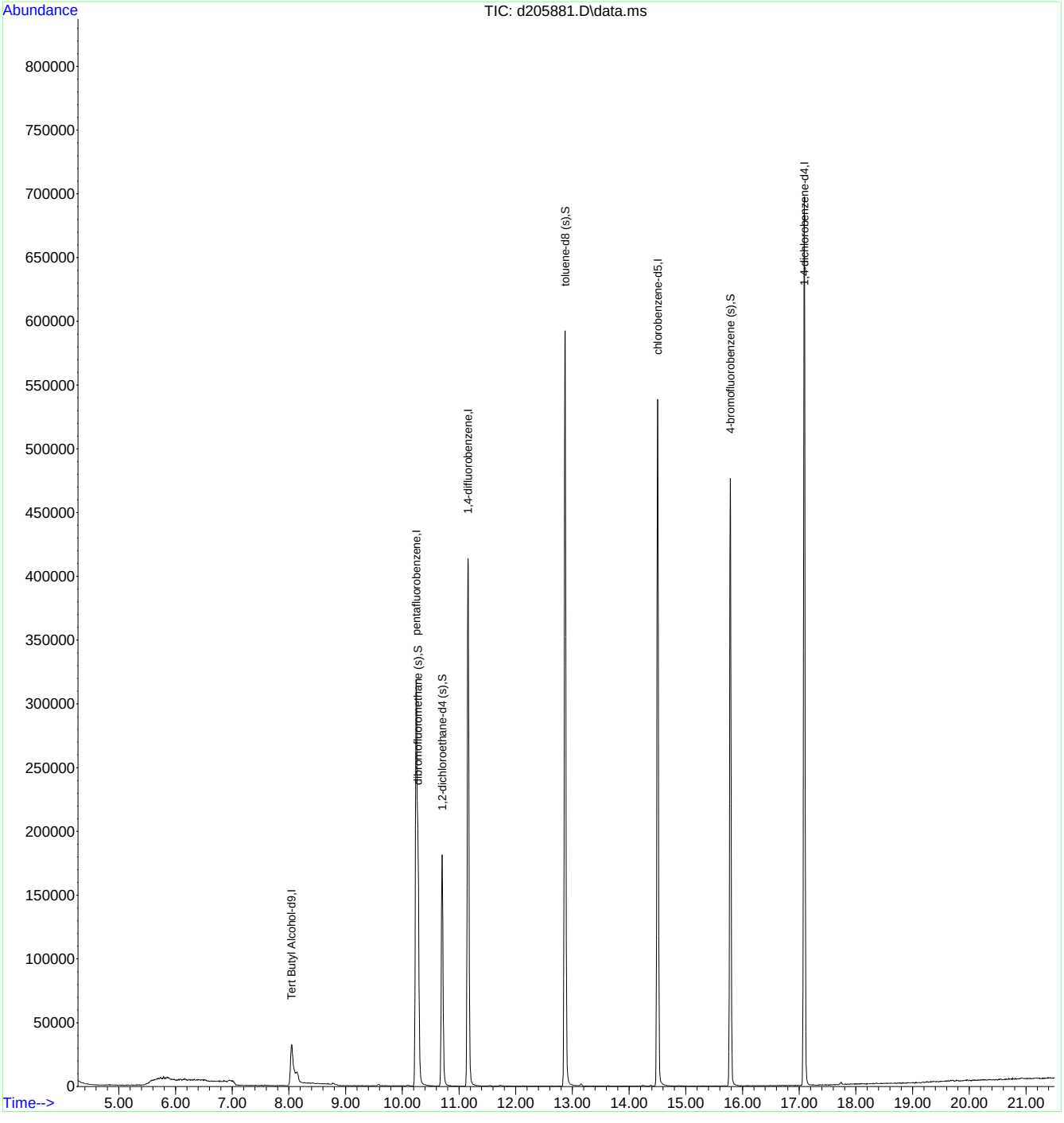
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205881.D
Acq On : 26 Feb 2013 11:31 am
Operator : EmilyT
Sample : mb
Misc : ms43706,vd8399,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 17:00:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205929.D
Acq On : 27 Feb 2013 1:26 pm
Operator : EmilyT
Sample : mb
Misc : ms43442,vd8401,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 04 14:57:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.031	65	132383	500.00	ug/L	0.02
4) pentafluorobenzene	10.253	168	228898	50.00	ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	346461	50.00	ug/L	0.00
85) chlorobenzene-d5	14.509	117	330907	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	198677	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.279	113	105235	47.08	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.16%			
47) 1,2-dichloroethane-d4 (s)	10.708	65	132889	49.24	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.48%			
77) toluene-d8 (s)	12.877	98	416856	49.65	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.30%			
101) 4-bromofluorobenzene (s)	15.789	95	176862	49.01	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.02%			

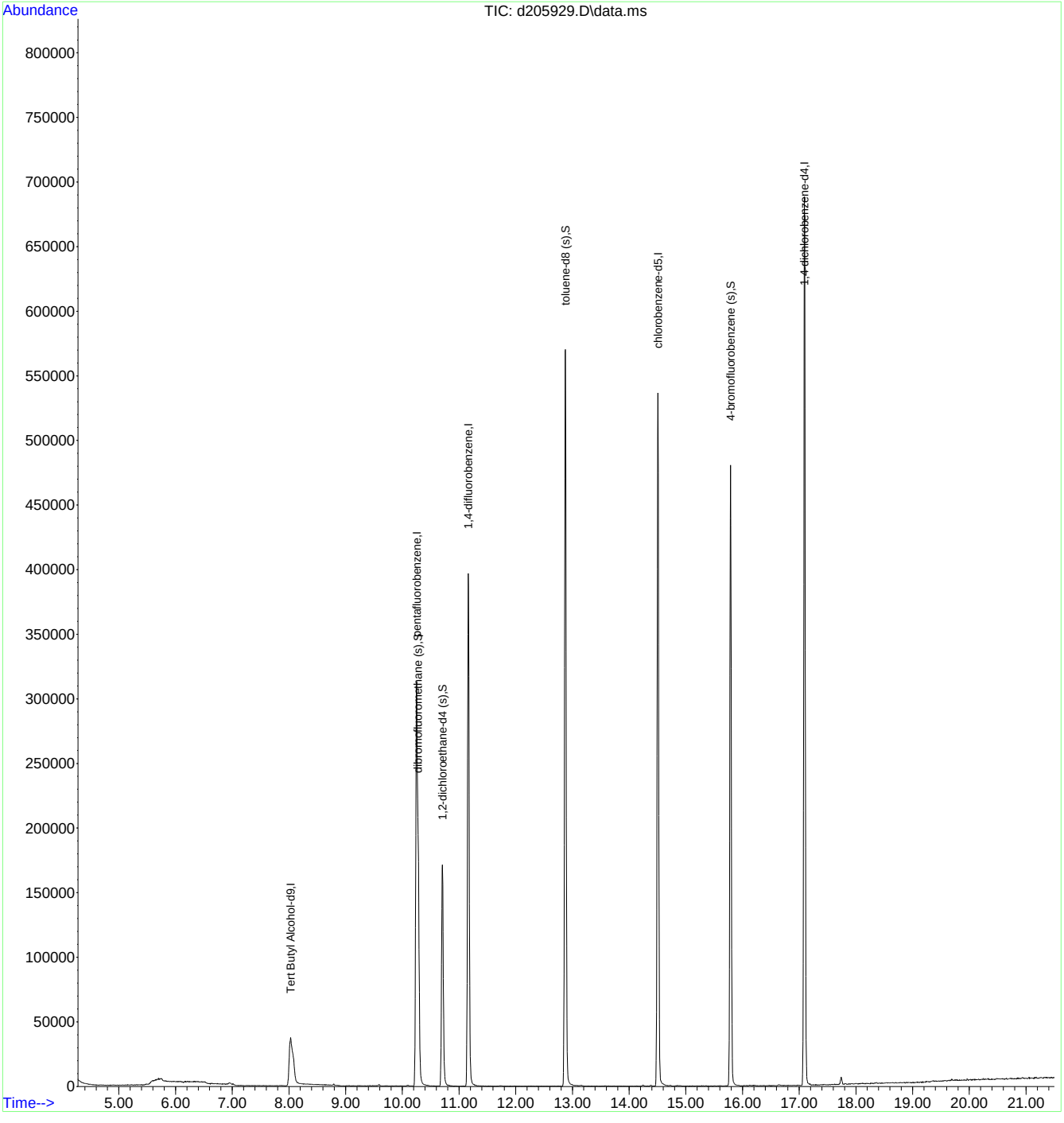
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205929.D
Acq On : 27 Feb 2013 1:26 pm
Operator : EmilyT
Sample : mb
Misc : ms43442,vd8401,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 04 14:57:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182036.D
Acq On : 6 Mar 2013 11:41 am
Operator : SCOTTM
Sample : MB1
Misc : MS44166,VI7353,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 14:42:43 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.207	65	60809	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	227358	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.387	114	315159	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	255263	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	140909	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.508	113	84593	50.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.16%			
47) 1,2-dichloroethane-d4...	9.931	65	76406	48.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.38%			
76) toluene-d8 (s)	12.039	98	322585	53.91	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 107.82%			
91) 4-bromofluorobenzene (s)	14.717	95	110251	53.34	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 106.68%			

Target Compounds Qvalue

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

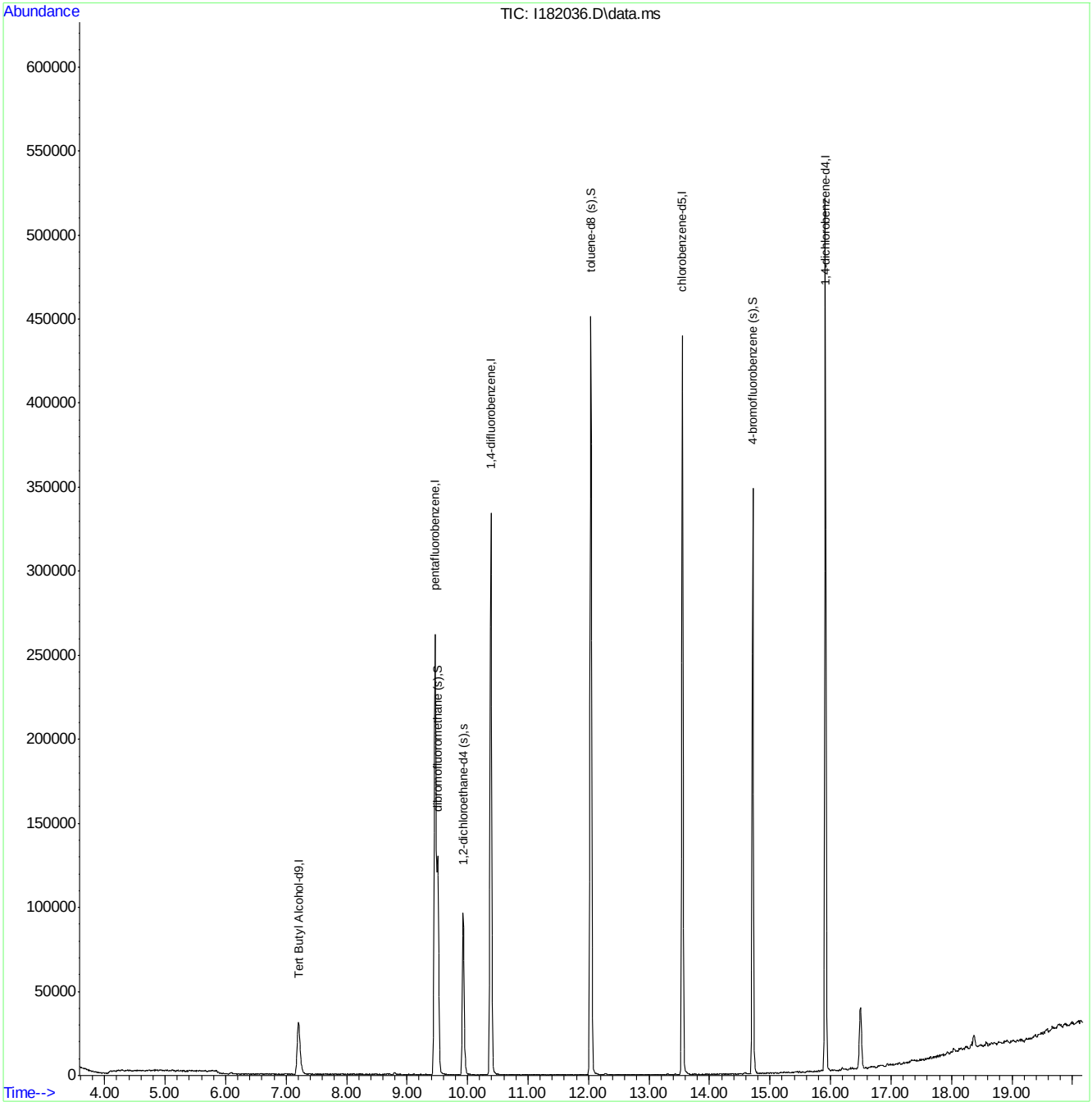
7.2.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182036.D
Acq On : 6 Mar 2013 11:41 am
Operator : SCOTTM
Sample : MB1
Misc : MS44166,VI7353,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 14:42:43 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



MI7342.M Wed Mar 06 14:42:51 2013 RPT1

ACCUTEST LABORATORIES JB29314

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133444.D
Acq On : 25 Feb 2013 2:11 pm
Operator : DIPAP
Sample : mb1
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 11:40:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	105034	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	225634	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	302730	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	291097	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	179033	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	71640	46.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.94%			
45) 1,2-dichloroethane-d4 (s)	11.199	65	81855	50.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.04%			
74) toluene-d8 (s)	13.349	98	300708	52.89	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.78%			
99) 4-bromofluorobenzene (s)	16.194	95	116854	50.03	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.06%			

Target Compounds Qvalue

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

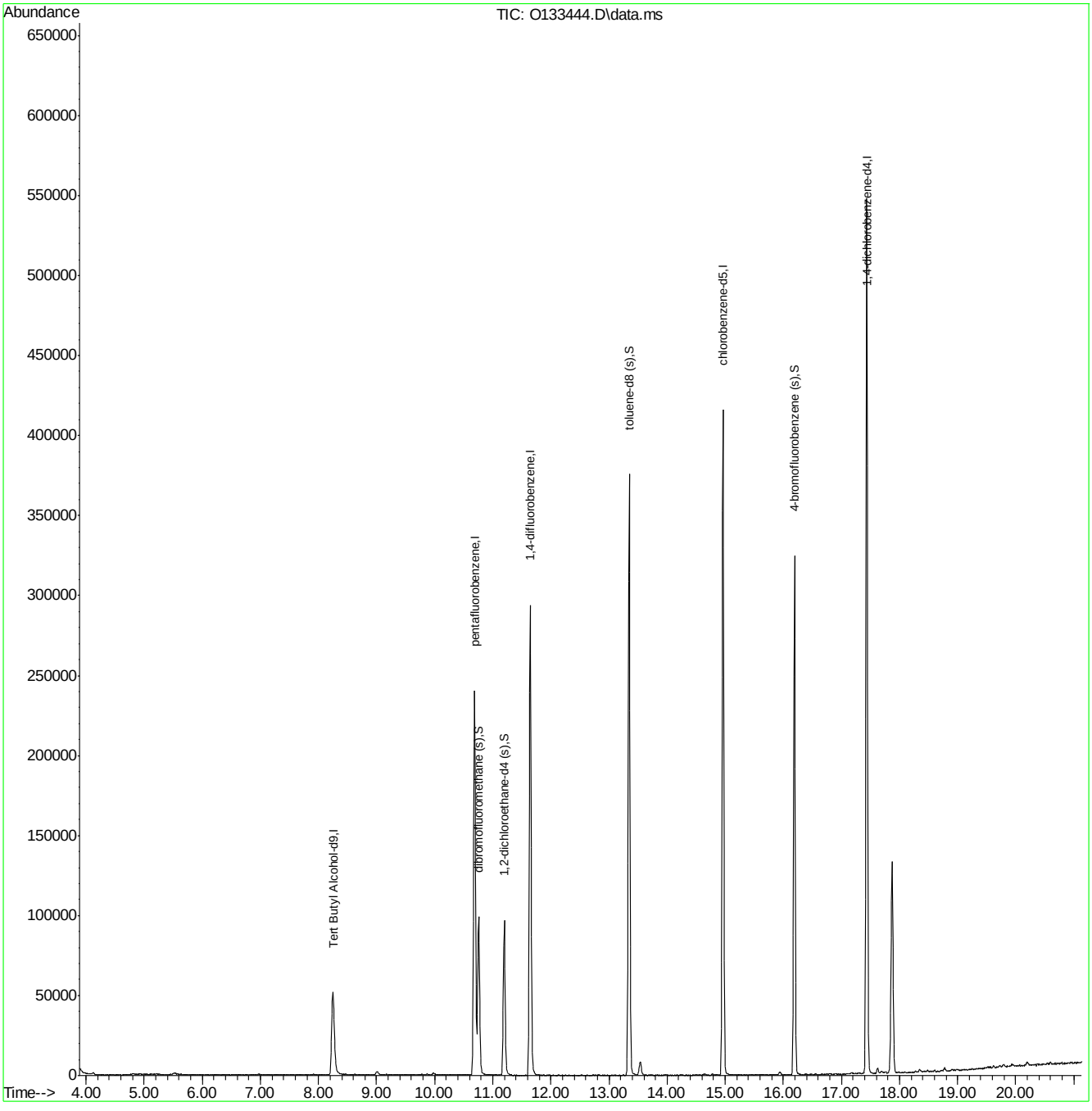
7.2.5

7

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133444.D
Acq On : 25 Feb 2013 2:11 pm
Operator : DIPAP
Sample : mb1
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 11:40:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



MO5870S.M Tue Feb 26 11:40:58 2013 MSO

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ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133445.D
Acq On : 25 Feb 2013 3:06 pm
Operator : DIPAP
Sample : bs
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 11:41:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	105664	500.00	ug/L	-0.02
5) pentafluorobenzene	10.681	168	222986	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.639	114	304737	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	294266	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	180952	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.749	113	72599	47.65	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.30%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	82195	50.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 101.64%			
74) toluene-d8 (s)	13.344	98	301035	52.60	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.20%			
99) 4-bromofluorobenzene (s)	16.189	95	119244	50.51	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 101.02%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.385	59	39433	213.49	ug/L	99
4) 1,4-dioxane	12.397	88	18607	1023.36	ug/L	97
6) chlorodifluoromethane	4.238	51	68060	32.21	ug/L	100
7) dichlorodifluoromethane	4.201	85	91968	38.41	ug/L	97
8) chloromethane	4.672	50	95477	43.18	ug/L	99
9) vinyl chloride	4.944	62	92248	41.27	ug/L	98
10) bromomethane	5.707	94	55271	48.08	ug/L	99
11) chloroethane	5.938	64	49670	53.22	ug/L	96
13) trichlorofluoromethane	6.434	101	117759	47.00	ug/L	99
15) ethyl ether	6.957	74	40103	48.59	ug/L	97
16) acrolein	7.287	56	124062	467.03	ug/L	100
17) 1,1-dichloroethene	7.439	96	62056	45.20	ug/L	99
18) acetone	7.543	43	24592	52.31	ug/L	97
19) allyl chloride	8.066	76	37651	45.54	ug/L	97
20) acetonitrile	8.071	40	43360	384.25	ug/L #	75
21) iodomethane	7.768	142	86371	57.91	ug/L	94
23) carbon disulfide	7.894	76	206295	43.33	ug/L	99
24) methylene chloride	8.296	84	70070	42.76	ug/L	97
25) methyl acetate	8.061	43	36273	35.76	ug/L	100
26) methyl tert butyl ether	8.621	73	355733	95.88	ug/L	99
27) trans-1,2-dichloroethene	8.699	96	70499	46.01	ug/L	97
28) di-isopropyl ether	9.280	45	159610	41.48	ug/L	99
29) 2-butanone	10.111	72	9189	47.92	ug/L #	43
30) 1,1-dichloroethane	9.337	63	115576	48.72	ug/L	98
31) chloroprene	9.442	53	71453	36.21	ug/L	98
32) acrylonitrile	8.694	53	109886	222.79	ug/L	97
33) vinyl acetate	9.332	86	9972	42.39	ug/L	66
34) ethyl tert-butyl ether	9.787	59	154541	40.36	ug/L	99
35) ethyl acetate	10.117	45	6961	36.74	ug/L	70
36) 2,2-dichloropropane	10.122	77	104553	47.28	ug/L	99
37) cis-1,2-dichloroethene	10.143	96	76723	47.45	ug/L	94
38) methylacrylate	10.205	85	10761	47.74	ug/L #	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133445.D
Acq On : 25 Feb 2013 3:06 pm
Operator : DIPAP
Sample : bs
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 11:41:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	propionitrile	10.253	54	90433	454.53	ug/L		99
40)	bromochloromethane	10.477	128	39430	52.00	ug/L		98
41)	tetrahydrofuran	10.504	42	19496	41.39	ug/L		98
42)	chloroform	10.540	85	79339	47.25	ug/L		100
43)	t-butyl formate	10.551	59	44358	42.80	ug/L		98
46)	freon 113	7.365	151	38447	35.22	ug/L		99
47)	methacrylonitrile	10.425	41	34504	46.92	ug/L		95
48)	1,1,1-trichloroethane	10.776	97	111055	47.10	ug/L		99
49)	Cyclohexane	10.828	84	95794	45.87	ug/L		95
51)	epichlorohydrin	12.967	57	26880	208.49	ug/L		98
52)	n-butyl alcohol	11.790	56	92887	2001.44	ug/L		99
53)	carbon tetrachloride	10.980	117	99026	52.02	ug/L		97
54)	1,1-dichloropropene	10.964	75	91929	49.87	ug/L		99
55)	Tert Amyl Alcohol	11.126	55	12248	194.62	ug/L		95
56)	hexane	9.002	57	59429	36.69	ug/L		97
57)	2,2,4-TRIMETHYLPENTANE	11.204	57	164105	38.33	ug/L		98
58)	benzene	11.246	78	277850	50.31	ug/L		100
59)	tert-amyl methyl ether	11.257	87	38546	44.84	ug/L		95
60)	heptane	11.382	57	36066	39.31	ug/L		97
61)	isopropyl acetate	11.168	43	124201	40.64	ug/L		99
62)	1,2-dichloroethane	11.288	62	89379	55.65	ug/L		99
64)	trichloroethene	11.984	95	73810	51.81	ug/L		99
65)	tert-Amyl Ethyl Ether	12.125	87	78815	43.87	ug/L		99
66)	methyl methacrylate	12.266	69	47398	53.56	ug/L		98
67)	2-nitropropane	13.176	46	2847	39.13	ug/L	#	80
68)	2-chloroethyl vinyl ether	12.821	63	125374	233.02	ug/L		99
69)	1,2-dichloropropane	12.277	63	66400	53.19	ug/L		99
70)	dibromomethane	12.449	93	43510	55.57	ug/L		95
71)	methylcyclohexane	12.182	83	85438	39.00	ug/L		97
72)	bromodichloromethane	12.585	83	98804	55.36	ug/L		97
73)	cis-1,3-dichloropropene	13.056	75	116222	52.37	ug/L		98
75)	4-methyl-2-pentanone	13.150	58	25907	51.69	ug/L		94
76)	toluene	13.422	92	189748	48.66	ug/L		97
77)	3-methyl-1-butanol	13.176	55	54821	805.35	ug/L		98
78)	trans-1,3-dichloropropene	13.652	75	112243	54.72	ug/L		100
79)	ethyl methacrylate	13.616	69	88855	53.67	ug/L		99
80)	1,1,2-trichloroethane	13.882	83	53061	55.04	ug/L		99
81)	2-hexanone	14.044	58	26990	51.57	ug/L		98
83)	tetrachloroethene	14.034	164	77086	51.65	ug/L		99
84)	1,3-dichloropropane	14.076	76	102100	51.45	ug/L		99
85)	butyl acetate	14.107	56	36184	41.50	ug/L		91
86)	3,3-dimethyl-1-butanol	14.233	57	58316	421.87	ug/L		99
87)	dibromochloromethane	14.358	129	88777	54.61	ug/L		99
88)	1,2-dibromoethane	14.520	107	69752	52.76	ug/L		99
89)	chlorobenzene	14.991	112	229322	51.57	ug/L		99
90)	1,1,1,2-tetrachloroethane	15.059	131	87619	54.91	ug/L		99
91)	ethylbenzene	15.038	91	377311	49.15	ug/L		98
92)	m,p-xylene	15.148	106	306104	99.59	ug/L		95
93)	o-xylene	15.598	106	151797	51.35	ug/L		98
94)	butyl acrylate	15.619	55	23561	9.25	ug/L	#	49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133445.D
Acq On : 25 Feb 2013 3:06 pm
Operator : DIPAP
Sample : bs
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 11:41:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	styrene	15.614	104	257661	51.50	ug/L	99
96)	bromoform	15.922	173	70571	56.82	ug/L	98
98)	isopropylbenzene	15.953	105	394862	47.36	ug/L	98
100)	cyclohexanone	16.173	98	75813	621.56	ug/L	96
101)	bromobenzene	16.403	156	112791	51.16	ug/L	94
102)	1,1,2,2-tetrachloroethane	16.314	83	87213	47.67	ug/L	99
103)	trans-1,4-dichloro-2-b...	16.351	53	25619	47.83	ug/L	96
104)	1,2,3-trichloropropane	16.393	110	26408	49.02	ug/L	100
105)	n-propylbenzene	16.388	120	110831	49.47	ug/L	89
107)	2-chlorotoluene	16.560	126	98064	48.65	ug/L	88
108)	4-chlorotoluene	16.665	126	102762	49.63	ug/L	93
109)	1,3,5-trimethylbenzene	16.539	105	335756	48.44	ug/L	100
110)	tert-butylbenzene	16.916	119	298571	48.11	ug/L	97
111)	pentachloroethane	17.031	167	74248	54.10	ug/L	99
112)	1,2,4-trimethylbenzene	16.963	105	346886	48.43	ug/L	99
113)	sec-butylbenzene	17.141	105	427795	46.85	ug/L	99
114)	1,3-dichlorobenzene	17.371	146	210329	49.65	ug/L	99
115)	p-isopropyltoluene	17.266	119	387680	49.80	ug/L	100
116)	1,4-dichlorobenzene	17.460	146	214965	49.07	ug/L	99
117)	1,2-dichlorobenzene	17.894	146	199007	50.69	ug/L	99
118)	benzyl chloride	17.591	91	172929	42.13	ug/L	99
120)	n-butylbenzene	17.711	92	180843	45.32	ug/L	98
121)	1,2-dibromo-3-chloropr...	18.746	75	17218	42.00	ug/L	98
122)	1,3,5-TRICHLOROBENZENE	18.919	180	168918	50.40	ug/L	99
123)	1,2,4-trichlorobenzene	19.620	180	169116	54.28	ug/L	98
124)	hexachlorobutadiene	19.719	225	94805	49.80	ug/L	99
125)	naphthalene	19.934	128	337840	48.37	ug/L	99
126)	1,2,3-trichlorobenzene	20.206	180	149893	53.09	ug/L	99
127)	hexachloroethane	18.161	201	73614	52.48	ug/L	98

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

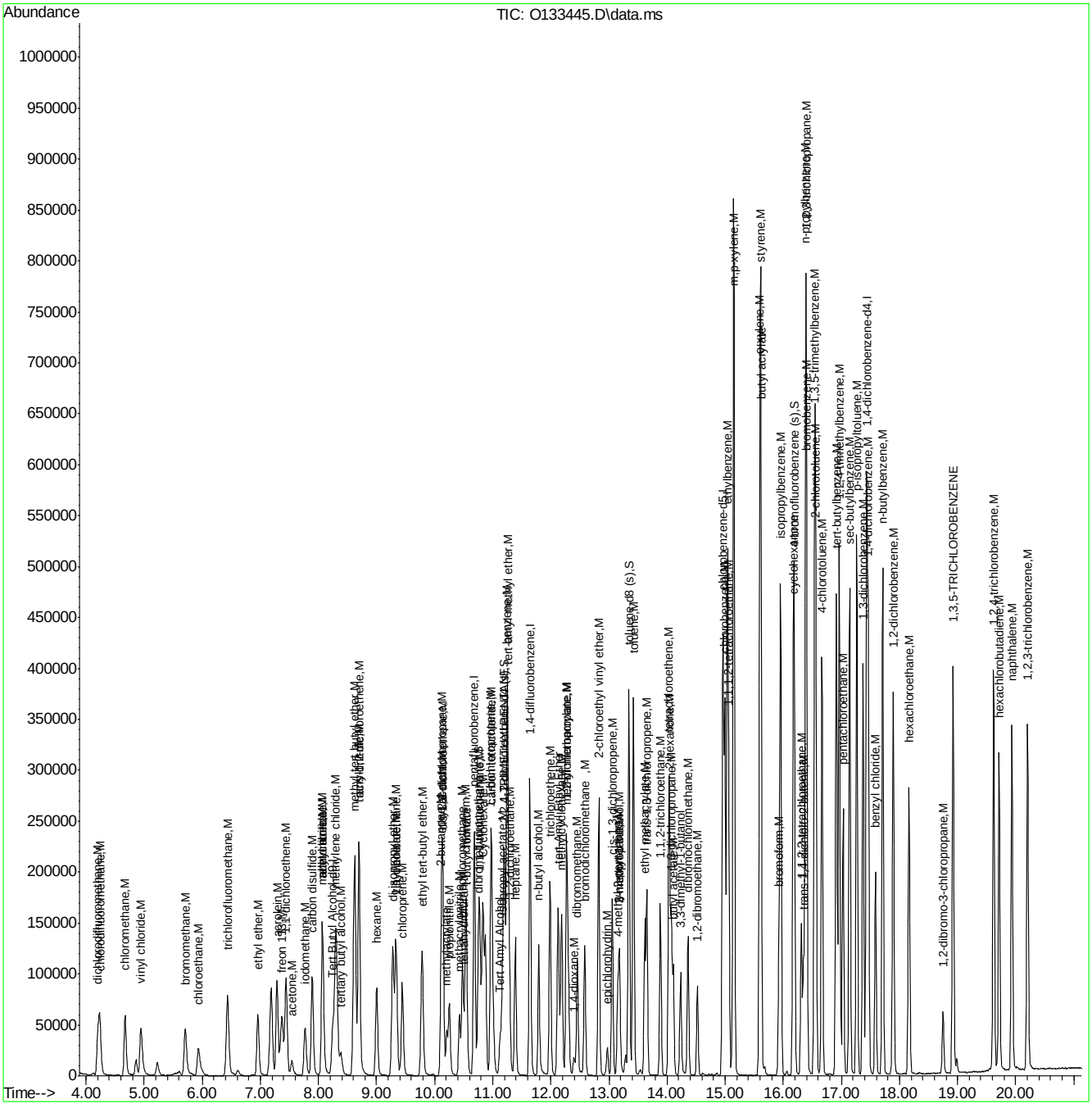
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133445.D
Acq On : 25 Feb 2013 3:06 pm
Operator : DIPAP
Sample : bs
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 11:41:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205882.D
Acq On : 26 Feb 2013 12:00 pm
Operator : EmilyT
Sample : bs
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 17:01:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	148463	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	236643	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	359474	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	336703	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.090	152	203757	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.278	113	111362	48.19 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.38%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	138209	49.53 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.06%		
77) toluene-d8 (s)	12.871	98	435448	49.99 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.98%		
101) 4-bromofluorobenzene (s)	15.789	95	179733	48.56 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.12%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.883	88	37178	1316.90 ug/L	92
3) tertiary butyl alcohol	8.135	59	85877	271.46 ug/L #	74
6) chlorodifluoromethane	4.569	51	147111	56.86 ug/L	99
7) dichlorodifluoromethane	4.554	85	181798	57.35 ug/L	96
8) chloromethane	4.914	50	181632	51.46 ug/L	99
9) vinyl chloride	5.207	62	170477	47.61 ug/L	99
10) bromomethane	5.866	94	112173	55.95 ug/L	100
11) chloroethane	6.049	64	102556	50.95 ug/L	97
13) trichlorofluoromethane	6.572	101	206161	54.26 ug/L	98
14) pentane	6.781	43	36921	8.93 ug/L #	56
15) ethyl ether	6.959	74	81173	48.15 ug/L	97
16) acrolein	7.178	56	319852	474.06 ug/L	99
18) 2-chloropropane	7.157	43	251405	50.69 ug/L	98
19) 1,1-dichloroethene	7.387	96	120565	50.36 ug/L	95
20) acetone	7.398	58	14091	53.22 ug/L #	84
21) allyl chloride	7.894	41	275012	48.08 ug/L	100
22) acetonitrile	7.816	40	81857	628.33 ug/L	98
24) iodomethane	7.654	142	214016	50.48 ug/L	100
26) carbon disulfide	7.790	76	415921	50.48 ug/L	99
27) methylene chloride	8.072	84	137599	46.74 ug/L	98
28) 1-chloropropane	8.124	42	239412	48.22 ug/L	95
29) methyl acetate	7.868	43	108573	43.59 ug/L	100
30) methyl tert butyl ether	8.433	73	818582	102.07 ug/L	98
31) trans-1,2-dichloroethene	8.454	96	127511	51.18 ug/L	97
32) di-isopropyl ether	9.029	45	440527	52.13 ug/L	100
33) ethyl tert-butyl ether	9.489	59	428428	50.78 ug/L	99
34) 2-butanone	9.693	72	17110	50.67 ug/L #	86
35) 1,1-dichloroethane	9.008	63	241519	54.24 ug/L	98
36) chloroprene	9.128	53	187185	52.91 ug/L	97
37) acrylonitrile	8.370	53	299383	272.59 ug/L	99
38) vinyl acetate	8.992	86	27663	51.75 ug/L	98
39) ethyl acetate	9.724	45	18399	45.24 ug/L	94
40) 2,2-dichloropropane	9.761	77	196851	60.01 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	138449	52.09 ug/L	98
42) propionitrile	9.771	54	221333	511.46 ug/L	93
43) bromochloromethane	10.033	128	65558	51.24 ug/L	95
44) tetrahydrofuran	10.090	72	20218	49.77 ug/L	98
45) chloroform	10.085	83	217951	53.20 ug/L	98
48) freon 113	7.377	151	83320	49.66 ug/L	98
49) methacrylonitrile	9.965	41	88418	47.64 ug/L	99
50) t-butyl formate	10.158	59	134687	50.61 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205882.D
Acq On : 26 Feb 2013 12:00 pm
Operator : EmilyT
Sample : bs
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 17:01:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.378	97	199379	55.54 ug/L	100
52) tert-amyl methyl ether	10.859	73	413694	49.55 ug/L	98
54) cyclohexane	10.477	84	208130	55.89 ug/L	99
55) tert amyl alcohol	10.650	55	30076	255.80 ug/L	98
56) 2,2,4-trimethylpentane	10.864	57	483265	54.00 ug/L	99
57) epichlorohydrin	12.427	57	76985	252.36 ug/L	98
58) n-butyl alcohol	11.245	56	218363	2362.27 ug/L	98
59) carbon tetrachloride	10.587	117	172079	55.62 ug/L	98
60) 1,1-dichloropropene	10.550	75	174386	54.53 ug/L	99
61) hexane	8.794	57	153900	52.30 ug/L	96
62) benzene	10.812	78	505577	53.08 ug/L	98
63) heptane	11.010	57	94115	57.01 ug/L	97
64) isopropyl acetate	10.717	43	253007	48.60 ug/L	100
65) 1,2-dichloroethane	10.796	62	176059	55.01 ug/L	100
67) trichloroethene	11.517	95	126254	53.83 ug/L	97
68) 2-nitropropane	12.307	43	354610	50.50 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	462067	258.56 ug/L	99
70) methyl methacrylate	11.779	100	36792	52.28 ug/L	99
71) tert-amyl ethyl ether	11.711	87	194337	53.94 ug/L	97
72) 1,2-dichloropropane	11.779	63	137616	53.71 ug/L	100
73) methylcyclohexane	11.784	83	220490	55.58 ug/L	99
74) dibromomethane	11.925	93	82554	54.81 ug/L	97
75) bromodichloromethane	12.056	83	171163	54.99 ug/L	98
76) cis-1,3-dichloropropene	12.542	75	207391	51.39 ug/L	97
78) 4-methyl-2-pentanone	12.652	58	57561	51.43 ug/L	98
79) toluene	12.950	92	308836	52.02 ug/L	97
80) 3-methyl-1-butanol	12.636	70	77518	896.43 ug/L	96
81) trans-1,3-dichloropropene	13.122	75	203143	53.33 ug/L	93
82) ethyl methacrylate	13.143	69	176887	49.65 ug/L	99
83) 1,1,2-trichloroethane	13.358	83	98681	52.55 ug/L	98
84) 2-hexanone	13.562	58	52802	51.76 ug/L	96
86) tetrachloroethene	13.588	166	135810	49.28 ug/L	95
87) 1,3-dichloropropane	13.562	76	204968	50.75 ug/L	100
88) butyl acetate	13.645	56	91303	51.33 ug/L	94
89) 3,3-dimethyl-1-butanol	13.729	57	134688	422.10 ug/L	97
90) dibromochloromethane	13.844	129	129101	50.33 ug/L	99
91) 1,2-dibromoethane	14.016	107	121968	51.31 ug/L	99
92) chlorobenzene	14.539	112	343417	50.22 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	128404	50.74 ug/L	99
94) ethylbenzene	14.612	91	604870	50.87 ug/L	100
95) m,p-xylene	14.733	106	468987	98.98 ug/L	100
96) o-xylene	15.193	106	236006	50.19 ug/L	97
97) styrene	15.198	104	397269	50.18 ug/L	99
98) bromoform	15.464	173	101161	50.93 ug/L	99
100) isopropylbenzene	15.579	105	614295	50.46 ug/L	98
102) bromobenzene	16.008	156	166505	50.32 ug/L	95
103) cyclohexanone	15.742	55	50770	538.09 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.872	83	168707	44.94 ug/L	99
105) trans-1,4-dichloro-2-b...	15.930	53	52329	51.09 ug/L	97
106) 1,2,3-trichloropropane	15.966	110	50343	47.24 ug/L	92
107) n-propylbenzene	16.034	91	748481	51.60 ug/L	99
109) 2-chlorotoluene	16.191	126	150993	49.94 ug/L	97
110) 4-chlorotoluene	16.301	91	470614	49.70 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	531517	46.97 ug/L	99
112) tert-butylbenzene	16.599	119	456995	48.11 ug/L	100
113) pentachloroethane	16.672	167	105805	49.96 ug/L	98
114) 1,2,4-trimethylbenzene	16.641	105	555627	48.30 ug/L	99
115) sec-butylbenzene	16.839	105	692692	49.51 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205882.D
Acq On : 26 Feb 2013 12:00 pm
Operator : EmilyT
Sample : bs
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 17:01:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,3-dichlorobenzene	17.028	146	320186	49.07 ug/L	99
117) p-isopropyltoluene	16.970	119	592609	51.14 ug/L	100
118) 1,4-dichlorobenzene	17.122	146	326096	47.88 ug/L	98
119) Benzyl Chloride	17.242	91	360081	57.82 ug/L	100
121) 1,2-dichlorobenzene	17.556	146	310027	46.75 ug/L	99
122) n-butylbenzene	17.430	92	314127	49.35 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.397	75	31702	43.50 ug/L	98
125) 1,3,5-trichlorobenzene	18.633	180	246977	48.84 ug/L	100
126) 1,2,4-trichlorobenzene	19.365	180	224618	54.79 ug/L	98
127) hexachlorobutadiene	19.511	225	120460	50.45 ug/L	100
128) naphthalene	19.683	128	440961	48.91 ug/L	100
129) 1,2,3-trichlorobenzene	19.961	180	170356	51.63 ug/L	98
130) hexachloroethane	17.864	119	105491	48.09 ug/L	99

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

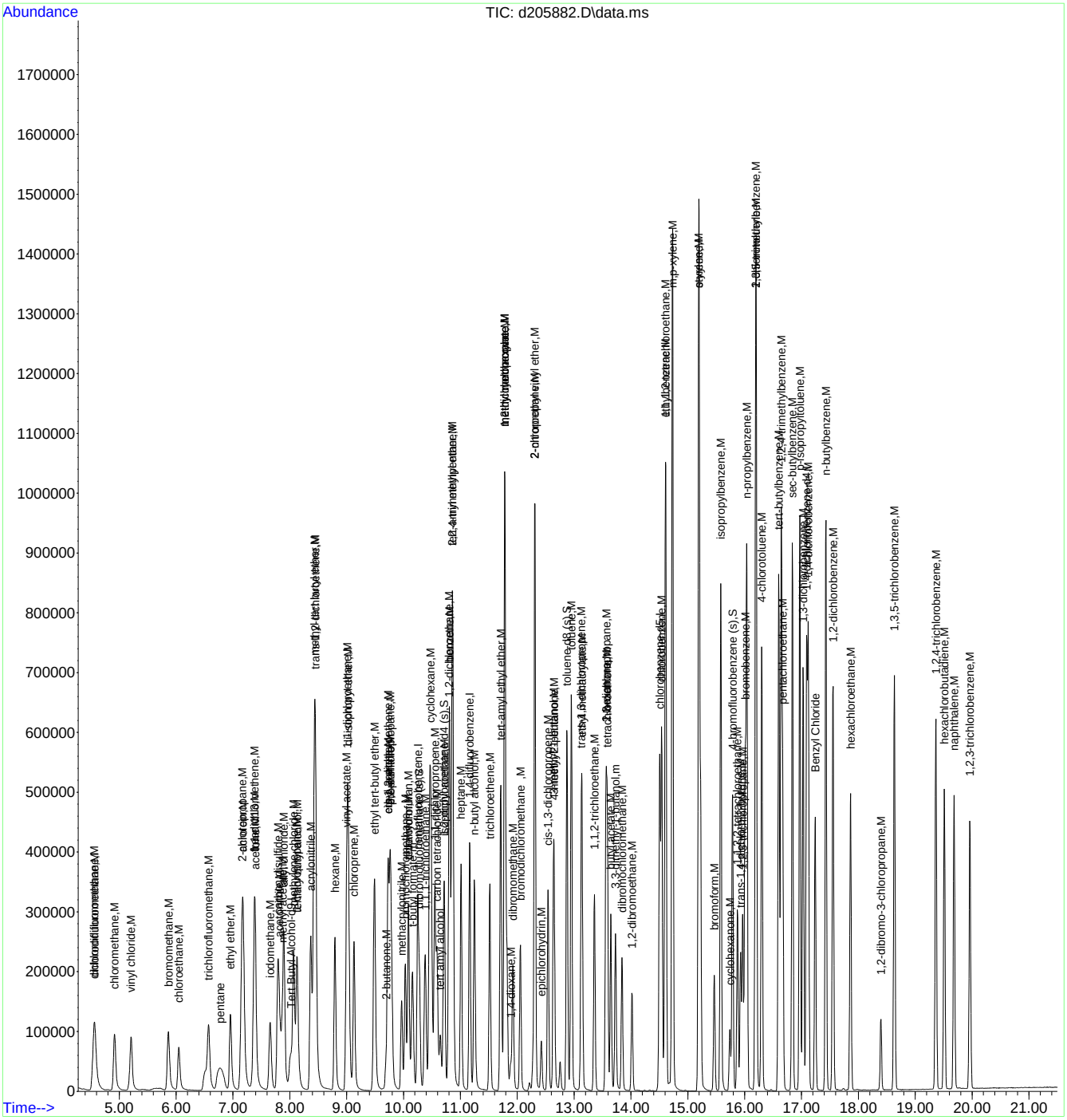
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205882.D
Acq On : 26 Feb 2013 12:00 pm
Operator : EmilyT
Sample : bs
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 17:01:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205930.D
Acq On : 27 Feb 2013 1:55 pm
Operator : EmilyT
Sample : bs
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 16:11:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	139276	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	225554	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	344155	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	320161	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	196898	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.284	113	105428	47.86 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.72%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	128422	48.29 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.58%		
77) toluene-d8 (s)	12.877	98	411775	49.37 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.74%		
101) 4-bromofluorobenzene (s)	15.789	95	172803	48.31 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.62%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.884	88	30022	1133.57 ug/L	95
3) tertiary butyl alcohol	8.130	59	75430	254.17 ug/L	92
6) chlorodifluoromethane	4.564	51	121188	49.15 ug/L	96
7) dichlorodifluoromethane	4.554	85	164889	54.58 ug/L	99
8) chloromethane	4.915	50	158892	47.23 ug/L	99
9) vinyl chloride	5.197	62	156691	45.91 ug/L	99
10) bromomethane	5.861	94	101865	53.30 ug/L	97
11) chloroethane	6.049	64	96821	50.47 ug/L	100
13) trichlorofluoromethane	6.572	101	194714	53.77 ug/L	99
15) ethyl ether	6.954	74	75869	47.22 ug/L	97
16) acrolein	7.184	56	290148	451.17 ug/L	99
18) 2-chloropropane	7.157	43	230081	48.67 ug/L	99
19) 1,1-dichloroethene	7.387	96	113121	49.57 ug/L	100
20) acetone	7.403	58	15058	59.67 ug/L	95
21) allyl chloride	7.900	41	239199	43.87 ug/L	99
22) acetonitrile	7.827	40	68159	548.91 ug/L	98
24) iodomethane	7.654	142	200049	49.50 ug/L	99
26) carbon disulfide	7.795	76	391229	49.82 ug/L	100
27) methylene chloride	8.067	84	132163	47.10 ug/L	97
28) 1-chloropropane	8.130	42	225204	47.58 ug/L	96
29) methyl acetate	7.868	43	95749	40.34 ug/L	100
30) methyl tert butyl ether	8.433	73	743491	97.27 ug/L	99
31) trans-1,2-dichloroethene	8.459	96	120119	50.58 ug/L	99
32) di-isopropyl ether	9.029	45	391388	48.59 ug/L	99
33) ethyl tert-butyl ether	9.489	59	376248	46.79 ug/L	98
34) 2-butanone	9.693	72	15742	48.91 ug/L #	96
35) 1,1-dichloroethane	9.013	63	225347	53.09 ug/L	99
36) chloroprene	9.134	53	163554	48.50 ug/L	97
37) acrylonitrile	8.370	53	280640	268.09 ug/L	99
38) vinyl acetate	8.998	86	23834	46.78 ug/L	100
39) ethyl acetate	9.719	45	17174	44.31 ug/L	54
40) 2,2-dichloropropane	9.766	77	101571	32.49 ug/L	99
41) cis-1,2-dichloroethene	9.735	96	129809	51.24 ug/L	96
42) propionitrile	9.771	54	206372	500.33 ug/L	95
43) bromochloromethane	10.033	128	62056	50.89 ug/L	97
44) tetrahydrofuran	10.090	72	18202	47.01 ug/L	94
45) chloroform	10.090	83	205069	52.52 ug/L	99
48) freon 113	7.377	151	70664	44.19 ug/L	99
49) methacrylonitrile	9.970	41	81840	46.26 ug/L	98
50) t-butyl formate	10.158	59	118805	46.83 ug/L	97
51) 1,1,1-trichloroethane	10.383	97	185124	54.11 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205930.D
Acq On : 27 Feb 2013 1:55 pm
Operator : EmilyT
Sample : bs
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 16:11:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.864	73	359386	45.16 ug/L	100
54) cyclohexane	10.477	84	190913	53.55 ug/L	97
55) tert amyl alcohol	10.645	55	27536	244.62 ug/L	96
56) 2,2,4-trimethylpentane	10.864	57	372298	43.45 ug/L	98
57) epichlorohydrin	12.427	57	60309	206.49 ug/L	99
58) n-butyl alcohol	11.251	56	193556	2187.11 ug/L	99
59) carbon tetrachloride	10.587	117	161359	54.48 ug/L	99
60) 1,1-dichloropropene	10.550	75	158989	51.93 ug/L	99
61) hexane	8.794	57	110180	39.11 ug/L	99
62) benzene	10.812	78	474185	52.00 ug/L	99
63) heptane	11.016	57	59088	37.39 ug/L	98
64) isopropyl acetate	10.723	43	225802	45.30 ug/L	99
65) 1,2-dichloroethane	10.796	62	159815	52.16 ug/L	98
67) trichloroethene	11.518	95	116424	51.85 ug/L	97
68) 2-nitropropane	12.312	43	300692	44.73 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	387926	226.74 ug/L	99
70) methyl methacrylate	11.784	100	34348	50.98 ug/L	100
71) tert-amyl ethyl ether	11.711	87	171631	49.76 ug/L	99
72) 1,2-dichloropropane	11.784	63	129629	52.85 ug/L	99
73) methylcyclohexane	11.784	83	184437	48.56 ug/L	97
74) dibromomethane	11.925	93	77111	53.47 ug/L	98
75) bromodichloromethane	12.056	83	160867	53.98 ug/L	99
76) cis-1,3-dichloropropene	12.542	75	175422	45.41 ug/L	97
78) 4-methyl-2-pentanone	12.652	58	53617	50.04 ug/L	95
79) toluene	12.955	92	287395	50.57 ug/L	99
80) 3-methyl-1-butanol	12.642	70	69666	841.49 ug/L	97
81) trans-1,3-dichloropropene	13.128	75	171583	47.05 ug/L	97
82) ethyl methacrylate	13.144	69	165083	48.40 ug/L	99
83) 1,1,2-trichloroethane	13.358	83	92087	51.22 ug/L	99
84) 2-hexanone	13.562	58	49044	50.22 ug/L	100
86) tetrachloroethene	13.588	166	124613	47.55 ug/L	97
87) 1,3-dichloropropane	13.562	76	190789	49.68 ug/L	100
88) butyl acetate	13.645	56	81600	48.25 ug/L	100
89) 3,3-dimethyl-1-butanol	13.729	57	122010	402.12 ug/L	100
90) dibromochloromethane	13.844	129	122055	50.04 ug/L	99
91) 1,2-dibromoethane	14.022	107	116174	51.40 ug/L	97
92) chlorobenzene	14.545	112	321120	49.38 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	120992	50.28 ug/L	98
94) ethylbenzene	14.613	91	565035	49.98 ug/L	99
95) m,p-xylene	14.733	106	437674	97.14 ug/L	99
96) o-xylene	15.198	106	220153	49.24 ug/L	100
97) styrene	15.198	104	375902	49.93 ug/L	98
98) bromoform	15.470	173	96557	51.13 ug/L	98
100) isopropylbenzene	15.580	105	573415	48.74 ug/L	98
102) bromobenzene	16.014	156	156855	49.06 ug/L	98
103) cyclohexanone	15.742	55	46404	508.95 ug/L	99
104) 1,1,2,2-tetrachloroethane	15.878	83	158609	43.72 ug/L	98
105) trans-1,4-dichloro-2-b...	15.930	53	40110	40.52 ug/L	93
106) 1,2,3-trichloropropane	15.967	110	47120	45.75 ug/L	92
107) n-propylbenzene	16.040	91	692225	49.38 ug/L	100
109) 2-chlorotoluene	16.197	126	139990	47.92 ug/L	96
110) 4-chlorotoluene	16.301	91	436351	47.68 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	493594	45.14 ug/L	100
112) tert-butylbenzene	16.604	119	423634	46.15 ug/L	99
113) pentachloroethane	16.672	167	97702	47.74 ug/L	99
114) 1,2,4-trimethylbenzene	16.646	105	516359	46.45 ug/L	100
115) sec-butylbenzene	16.840	105	635538	47.01 ug/L	98
116) 1,3-dichlorobenzene	17.033	146	297431	47.17 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205930.D
Acq On : 27 Feb 2013 1:55 pm
Operator : EmilyT
Sample : bs
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 16:11:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

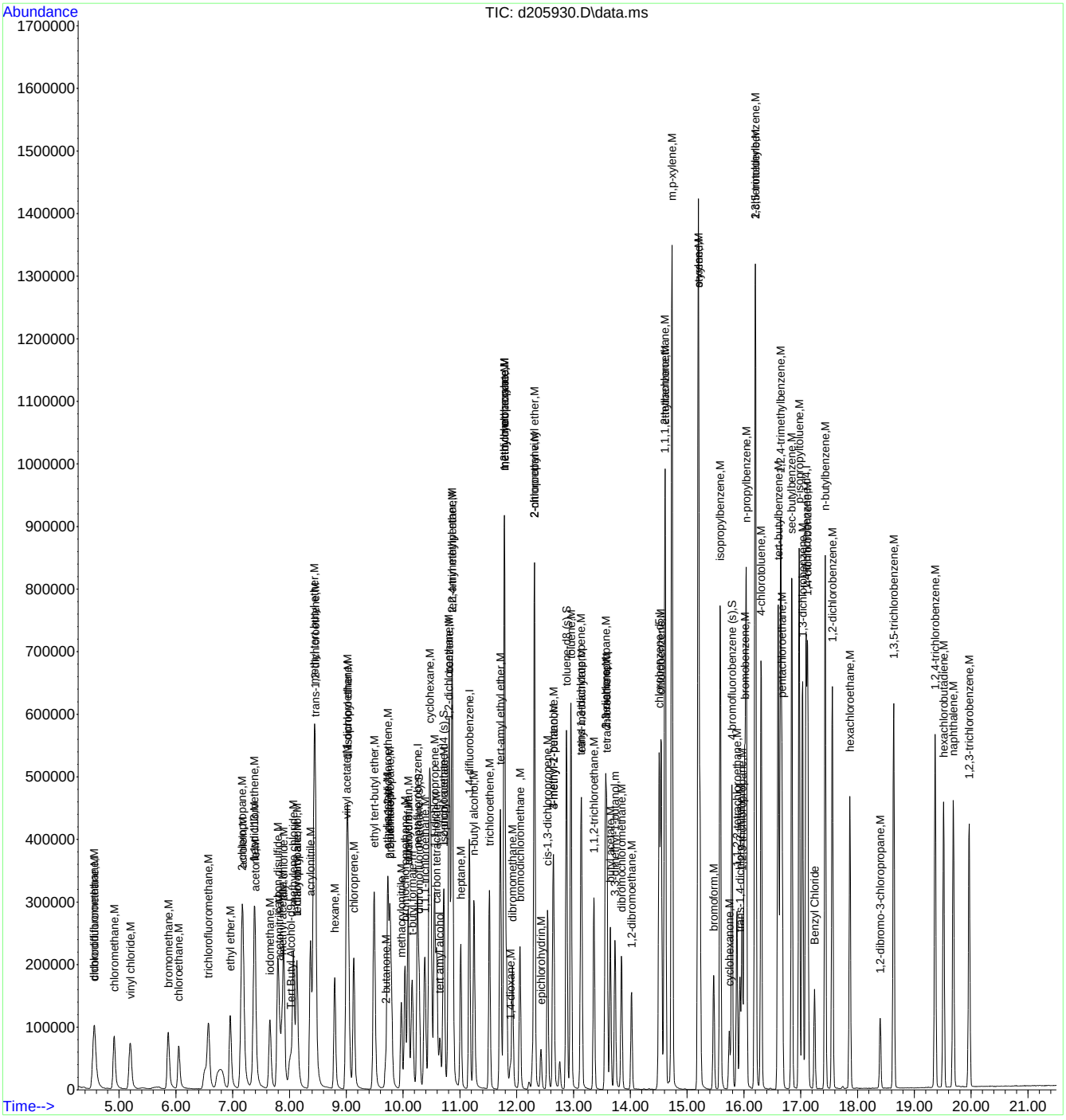
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
117) p-isopropyltoluene	16.970	119	541885	48.39 ug/L	98
118) 1,4-dichlorobenzene	17.122	146	306169	46.52 ug/L	100
119) Benzyl Chloride	17.242	91	124252	20.65 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	292441	45.64 ug/L	98
122) n-butylbenzene	17.430	92	279188	45.39 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.398	75	29689	42.16 ug/L	98
125) 1,3,5-trichlorobenzene	18.638	180	221698	45.37 ug/L	98
126) 1,2,4-trichlorobenzene	19.365	180	203369	51.34 ug/L	98
127) hexachlorobutadiene	19.516	225	110444	47.87 ug/L	99
128) naphthalene	19.684	128	417701	47.94 ug/L	99
129) 1,2,3-trichlorobenzene	19.966	180	158137	49.60 ug/L	98
130) hexachloroethane	17.864	119	99526	46.95 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205930.D
Acq On : 27 Feb 2013 1:55 pm
Operator : EmilyT
Sample : bs
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 16:11:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182037.D
Acq On : 6 Mar 2013 12:14 pm
Operator : SCOTTM
Sample : BS
Misc : MS44166,VI7353,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 12:37:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.206	65	75959	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	231640	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	323004	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	267936	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	157512	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.508	113	89473	52.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.02%			
47) 1,2-dichloroethane-d4...	9.926	65	82377	50.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 101.40%			
76) toluene-d8 (s)	12.034	98	333099	53.03	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.06%			
91) 4-bromofluorobenzene (s)	14.712	95	118419	51.26	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 102.52%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.327	59	38472	222.61	ug/L	97
3) iso-butyl alcohol	10.005	74	28510	595.04	ug/L #	50
4) 1,4-dioxane	11.108	88	16347	1181.70	ug/L #	99
6) chlorodifluoromethane	3.786	51	107713	56.78	ug/L	99
7) dichlorodifluoromethane	3.765	85	137339	50.22	ug/L	98
8) chloromethane	4.115	50	143228	56.36	ug/L	99
9) vinyl chloride	4.361	62	137133	53.31	ug/L	98
10) bromomethane	5.010	94	91243	54.93	ug/L	99
11) chloroethane	5.188	64	63368	54.25	ug/L	99
12) trichlorofluoromethane	5.632	101	156815	52.74	ug/L	97
13) ethyl ether	6.082	74	41580	52.27	ug/L	94
14) acrolein	6.328	56	124154	558.89	ug/L	96
15) freon 113	6.474	151	61682	53.47	ug/L	99
16) 1,1-dichloroethene	6.495	61	129077	55.95	ug/L	98
17) acetone	6.553	58	5140	52.23	ug/L #	83
18) iodomethane	6.767	142	169013	54.12	ug/L #	100
19) carbon disulfide	6.893	76	318023	55.59	ug/L	100
20) methyl acetate	7.029	74	9318	51.67	ug/L	98
21) allyl chloride	7.034	76	49026	52.51	ug/L	96
22) acetonitrile	7.029	41	191550	530.72	ug/L	99
23) methylene chloride	7.227	84	96079	50.65	ug/L	99
24) methyl tert butyl ether	7.573	73	459407	103.34	ug/L	99
25) acrylonitrile	7.562	53	104847	281.09	ug/L	99
26) trans-1,2-dichloroethene	7.609	96	94764	49.56	ug/L	97
27) hexane	7.923	57	83224	52.24	ug/L	99
28) di-isopropyl ether	8.185	45	254982	51.62	ug/L	99
29) vinyl acetate	8.185	65	50682	53.16	ug/L	98
30) 1,1-dichloroethane	8.185	63	159465	55.02	ug/L	99
31) chloroprene	8.294	53	114769	53.18	ug/L	99
32) ethyl tert-butyl ether	8.655	59	259401	51.29	ug/L	99
33) 2-butanone	8.906	72	7204	54.19	ug/L #	94
34) ethyl acetate	8.932	45	7750	51.15	ug/L	96
35) 2,2-dichloropropane	8.932	77	144731	54.96	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182037.D
Acq On : 6 Mar 2013 12:14 pm
Operator : SCOTTM
Sample : BS
Misc : MS44166,VI7353,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 12:37:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.932	96	101360	50.93	ug/L		99
37) methacrylonitrile	9.184	67	25335	52.59	ug/L		97
38) propionitrile	8.995	54	82539	580.35	ug/L		87
39) bromochloromethane	9.246	128	45131	52.23	ug/L		97
40) tetrahydrofuran	9.288	42	21210	52.20	ug/L		99
41) chloroform	9.309	83	162273	51.78	ug/L		100
42) tert-Butyl Formate	9.340	59	70098	54.25	ug/L	#	99
44) 1,1,1-trichloroethane	9.560	97	147572	54.55	ug/L		99
45) cyclohexane	9.633	84	128435	53.90	ug/L		92
48) 1,1-dichloropropene	9.743	75	122547	53.41	ug/L		98
49) carbon tetrachloride	9.764	117	130624	56.07	ug/L		93
50) isopropyl acetate	9.942	61	26894	54.67	ug/L		98
51) benzene	10.005	78	373260	52.57	ug/L		98
52) 2,2,4-trimethylpentane	10.010	57	287838	51.22	ug/L		99
53) tert-amyl methyl ether	10.047	73	245738	50.01	ug/L		99
54) 1,2-dichloroethane	10.020	62	102412	52.79	ug/L		99
55) heptane	10.188	57	58531	50.31	ug/L		100
56) n-butyl alcohol	10.517	56	85624	2785.10	ug/L		99
57) trichloroethene	10.726	95	98005	54.22	ug/L		98
59) methyl methacrylate	11.004	69	45189	54.03	ug/L		98
60) 1,2-dichloropropane	10.993	63	86552	52.43	ug/L		99
61) methylcyclohexane	10.946	83	141759	53.17	ug/L		99
62) dibromomethane	11.150	93	51530	55.09	ug/L		98
63) bromodichloromethane	11.286	83	119691	53.88	ug/L		97
64) 2-nitropropane	11.506	41	21748	55.85	ug/L	#	83
65) 2-chloroethyl vinyl ether	11.532	63	130215	328.92	ug/L		99
66) epichlorohydrin	11.647	57	28473	283.95	ug/L		100
67) cis-1,3-dichloropropene	11.746	75	135381	51.27	ug/L		98
68) 4-methyl-2-pentanone	11.840	58	23130	55.10	ug/L		99
69) 3-methyl-1-butanol	11.867	70	30839	1060.98	ug/L		98
70) toluene	12.112	91	390176	52.68	ug/L		100
71) trans-1,3-dichloropropene	12.311	75	119180	52.23	ug/L		96
72) ethyl methacrylate	12.311	69	80428	50.55	ug/L		98
73) 1,1,2-trichloroethane	12.526	83	58824	53.60	ug/L		98
74) 2-hexanone	12.698	58	20185	57.00	ug/L		97
77) tetrachloroethene	12.698	166	106948	51.32	ug/L		97
78) 1,3-dichloropropane	12.703	76	100230	49.31	ug/L		98
79) butyl acetate	12.777	56	35412	49.78	ug/L		96
80) 3,3-Dimethyl-1-Butanol	12.871	57	53157	486.18	ug/L		98
81) dibromochloromethane	12.970	129	86369	49.99	ug/L		99
82) 1,2-dibromoethane	13.117	107	70111	50.41	ug/L		100
83) chlorobenzene	13.582	112	245216	49.93	ug/L		97
84) 1,1,1,2-tetrachloroethane	13.645	131	90330	50.17	ug/L		98
85) ethylbenzene	13.640	91	419966	49.78	ug/L		100
86) m,p-xylene	13.750	106	327879	101.70	ug/L		98
87) o-xylene	14.168	106	160158	50.75	ug/L		99
88) styrene	14.178	104	261147	48.71	ug/L		98
89) bromoform	14.440	173	59203	53.35	ug/L		95
92) isopropylbenzene	14.513	105	416623	48.48	ug/L		100
93) cyclohexanone	14.670	55	41722	1277.16	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182037.D
Acq On : 6 Mar 2013 12:14 pm
Operator : SCOTTM
Sample : BS
Misc : MS44166,VI7353,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 12:37:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	83540	46.36	ug/L	98
95) trans-1,4-dichloro-2-b...	14.864	53	20564	49.23	ug/L	97
96) 1,2,3-trichloropropane	14.895	110	19185	50.39	ug/L	99
97) n-propylbenzene	14.926	91	504419	50.02	ug/L	99
98) bromobenzene	14.911	156	114906	48.00	ug/L	99
99) 2-chlorotoluene	15.073	126	103999	47.42	ug/L	96
100) 4-chlorotoluene	15.172	91	307482	48.87	ug/L	98
101) 1,3,5-trimethylbenzene	15.083	105	365007	47.93	ug/L	99
102) tert-butylbenzene	15.439	119	305150	47.95	ug/L	100
103) pentachloroethane	15.523	167	75366	50.30	ug/L	99
104) 1,2,4-trimethylbenzene	15.486	105	375747	47.97	ug/L	98
105) sec-butylbenzene	15.664	105	473042	48.43	ug/L	99
106) p-isopropyltoluene	15.789	119	414175	50.96	ug/l	99
107) benzyl chloride	16.067	91	189324	54.40	ug/L	100
108) 1,3-dichlorobenzene	15.857	146	227523	48.07	ug/L	99
109) 1,4-dichlorobenzene	15.941	146	227496	47.30	ug/L	100
110) 1,2-dichlorobenzene	16.354	146	211349	47.79	ug/L	99
111) n-butylbenzene	16.223	92	214626	51.36	ug/L	98
112) hexachloroethane	16.631	119	77472	48.09	ug/L	99
113) 1,2-dibromo-3-chloropr...	17.175	157	18151	48.04	ug/L	98
114) 1,3,5-Trichlorobenzene	17.374	180	181990	47.64	ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	166795	52.74	ug/L	99
116) hexachlorobutadiene	18.164	225	103837	47.85	ug/L	98
117) naphthalene	18.321	128	280245	49.81	ug/L	100
118) 1,2,3-trichlorobenzene	18.582	180	137706	49.86	ug/L	97

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

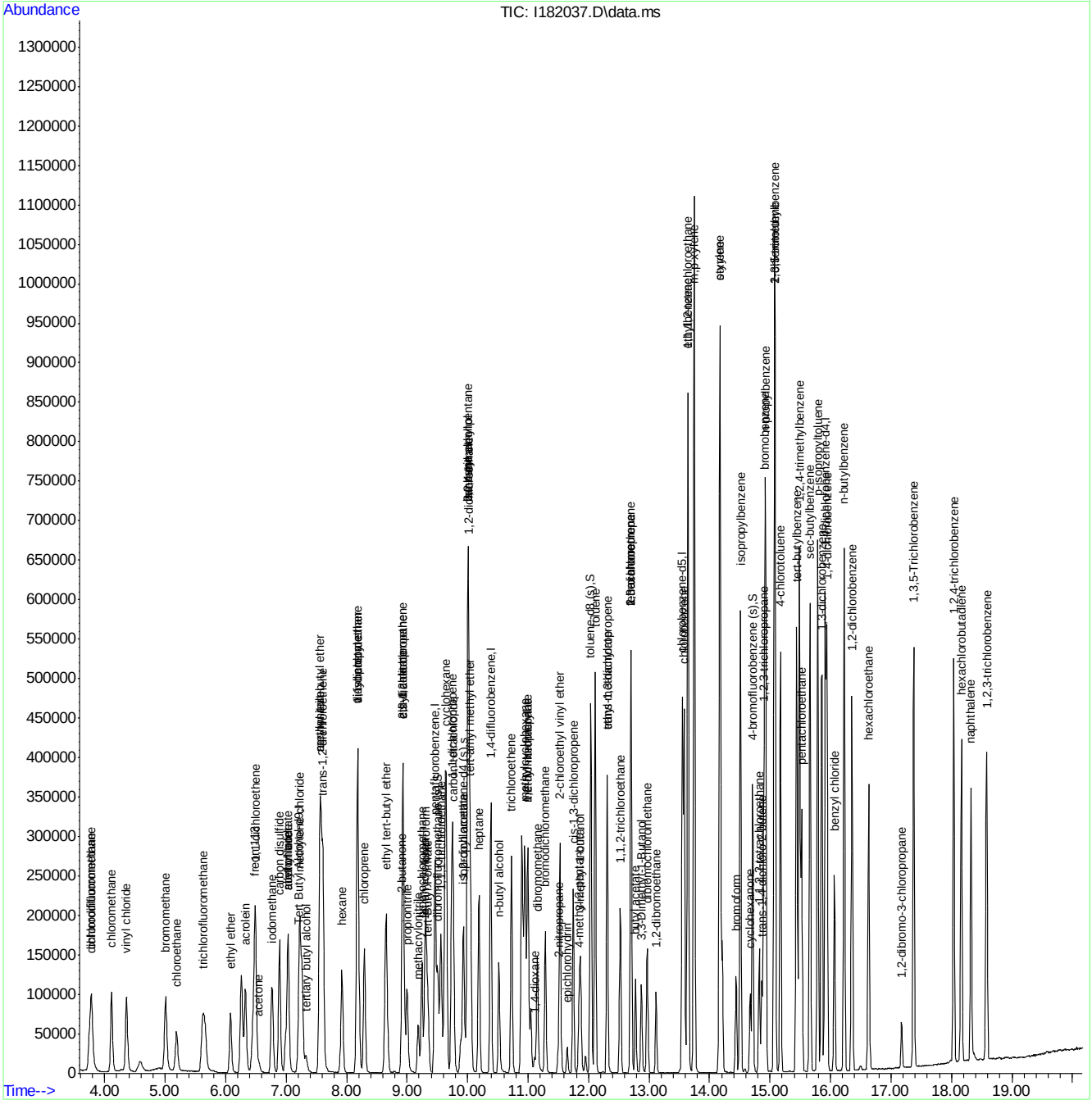
7.3.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182037.D
Acq On : 6 Mar 2013 12:14 pm
Operator : SCOTTM
Sample : BS
Misc : MS44166,VI7353,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 12:37:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133451.D
Acq On : 25 Feb 2013 6:47 pm
Operator : DIPAP
Sample : jb29267-11ms
Misc : MS43630,VO5887,6.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 11:45:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	59686	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	210444	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	286144	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	271868	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	166402	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.760	113	67742	47.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.22%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	68700	45.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 90.02%			
74) toluene-d8 (s)	13.344	98	285183	53.07	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.14%			
99) 4-bromofluorobenzene (s)	16.194	95	108430	49.94	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.391	59	27601	264.55	ug/L	96
4) 1,4-dioxane	12.397	88	13065	1272.08	ug/L	94
6) chlorodifluoromethane	4.238	51	71450	35.77	ug/L	100
7) dichlorodifluoromethane	4.201	85	104485	46.24	ug/L	100
8) chloromethane	4.672	50	88229	42.28	ug/L	98
9) vinyl chloride	4.944	62	91791	43.51	ug/L	98
10) bromomethane	5.718	94	52685	48.56	ug/L	99
11) chloroethane	5.938	64	45746	51.93	ug/L	97
13) trichlorofluoromethane	6.440	101	119840	50.68	ug/L	99
15) ethyl ether	6.963	74	32959	42.31	ug/L	98
16) acrolein	7.287	56	65759	262.30	ug/L	98
17) 1,1-dichloroethene	7.439	96	62371	48.13	ug/L	99
18) acetone	7.548	43	24272	54.70	ug/L	99
19) allyl chloride	8.072	76	38245	49.02	ug/L #	80
20) acetonitrile	8.072	40	33185	311.60	ug/L #	48
21) iodomethane	7.773	142	86861	61.71	ug/L	96
23) carbon disulfide	7.894	76	209451	46.61	ug/L	99
24) methylene chloride	8.296	84	72481	46.86	ug/L	96
25) methyl acetate	8.066	43	30291	31.64	ug/L	100
26) methyl tert butyl ether	8.626	73	150518	42.99	ug/L	99
27) trans-1,2-dichloroethene	8.704	96	68941	47.68	ug/L	97
28) di-isopropyl ether	9.285	45	168162	46.31	ug/L	99
29) 2-butanone	10.122	72	7539	41.66	ug/L #	51
30) 1,1-dichloroethane	9.342	63	109057	48.71	ug/L	98
31) chloroprene	9.447	53	81279	43.64	ug/L	99
32) acrylonitrile	8.699	53	66221	142.26	ug/L	99
33) vinyl acetate	9.332	86	6219	28.01	ug/L	93
34) ethyl tert-butyl ether	9.792	59	154969	42.88	ug/L	98
35) ethyl acetate	10.122	45	4947	27.67	ug/L #	36
36) 2,2-dichloropropane	10.122	77	103355	49.53	ug/L	99
37) cis-1,2-dichloroethene	10.143	96	71671	46.97	ug/L	97
38) methylacrylate	10.216	85	6973	32.78	ug/L #	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133451.D
Acq On : 25 Feb 2013 6:47 pm
Operator : DIPAP
Sample : jb29267-11ms
Misc : MS43630,VO5887,6.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 11:45:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) propionitrile	10.253	54	51670	275.18 ug/L	96
40) bromochloromethane	10.483	128	33653	47.03 ug/L	97
41) tetrahydrofuran	10.504	42	12288	27.64 ug/L	95
42) chloroform	10.540	85	75451	47.61 ug/L	99
43) t-butyl formate	10.551	59	29842	30.51 ug/L #	94
46) freon 113	7.371	151	47776	46.37 ug/L	98
47) methacrylonitrile	10.436	41	21959	31.64 ug/L	97
48) 1,1,1-trichloroethane	10.781	97	110622	49.72 ug/L	97
49) Cyclohexane	10.833	84	94324	47.85 ug/L	97
51) epichlorohydrin	12.972	57	18108	149.58 ug/L	97
52) n-butyl alcohol	11.790	56	59605	1367.76 ug/L	98
53) carbon tetrachloride	10.985	117	98629	55.18 ug/L	96
54) 1,1-dichloropropene	10.969	75	89506	51.71 ug/L	98
56) hexane	9.002	57	53916	35.45 ug/L	99
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	146096	36.34 ug/L	100
58) benzene	11.252	78	265534	51.20 ug/L	99
59) tert-amyl methyl ether	11.257	87	36783	45.57 ug/L	96
60) heptane	11.387	57	30366	35.24 ug/L	96
61) isopropyl acetate	11.168	43	93518	32.59 ug/L	98
62) 1,2-dichloroethane	11.288	62	73262	48.58 ug/L	100
64) trichloroethene	11.989	95	69476	51.93 ug/L	96
66) methyl methacrylate	12.266	69	30931	37.22 ug/L #	81
67) 2-nitropropane	13.181	46	1905	27.89 ug/L #	79
68) 2-chloroethyl vinyl ether	12.826	63	101685	201.27 ug/L	98
69) 1,2-dichloropropane	12.277	63	59196	50.50 ug/L	99
70) dibromomethane	12.454	93	33371	45.39 ug/L	94
71) methylcyclohexane	12.188	83	87770	42.67 ug/L	98
72) bromodichloromethane	12.585	83	87034	51.93 ug/L	98
73) cis-1,3-dichloropropene	13.056	75	104624	50.21 ug/L	96
75) 4-methyl-2-pentanone	13.150	58	16346	34.74 ug/L	91
76) toluene	13.422	92	180395	49.27 ug/L	99
77) 3-methyl-1-butanol	13.176	55	36851	576.54 ug/L	95
78) trans-1,3-dichloropropene	13.652	75	91086	47.29 ug/L	97
79) ethyl methacrylate	13.616	69	64530	41.51 ug/L	97
80) 1,1,2-trichloroethane	13.888	83	40612	44.86 ug/L	97
81) 2-hexanone	14.050	58	21749	44.25 ug/L	97
83) tetrachloroethene	14.034	164	72394	52.50 ug/L	98
84) 1,3-dichloropropane	14.076	76	81380	44.39 ug/L	98
85) butyl acetate	14.112	56	27734	34.43 ug/L	99
86) 3,3-dimethyl-1-butanol	14.233	57	38087	298.23 ug/L	97
87) dibromochloromethane	14.364	129	73066	48.65 ug/L	100
88) 1,2-dibromoethane	14.520	107	52247	42.78 ug/L	95
89) chlorobenzene	14.996	112	204136	49.69 ug/L	98
90) 1,1,1,2-tetrachloroethane	15.059	131	79030	53.61 ug/L	97
91) ethylbenzene	15.038	91	348413	49.13 ug/L	99
92) m,p-xylene	15.148	106	277685	97.78 ug/L	99
93) o-xylene	15.598	106	137368	50.30 ug/L	98
95) styrene	15.614	104	226094	48.92 ug/L	99
96) bromoform	15.927	173	51064	44.50 ug/L	98
98) isopropylbenzene	15.953	105	360989	47.08 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133451.D
Acq On : 25 Feb 2013 6:47 pm
Operator : DIPAP
Sample : jb29267-11ms
Misc : MS43630,VO5887,6.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 11:45:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

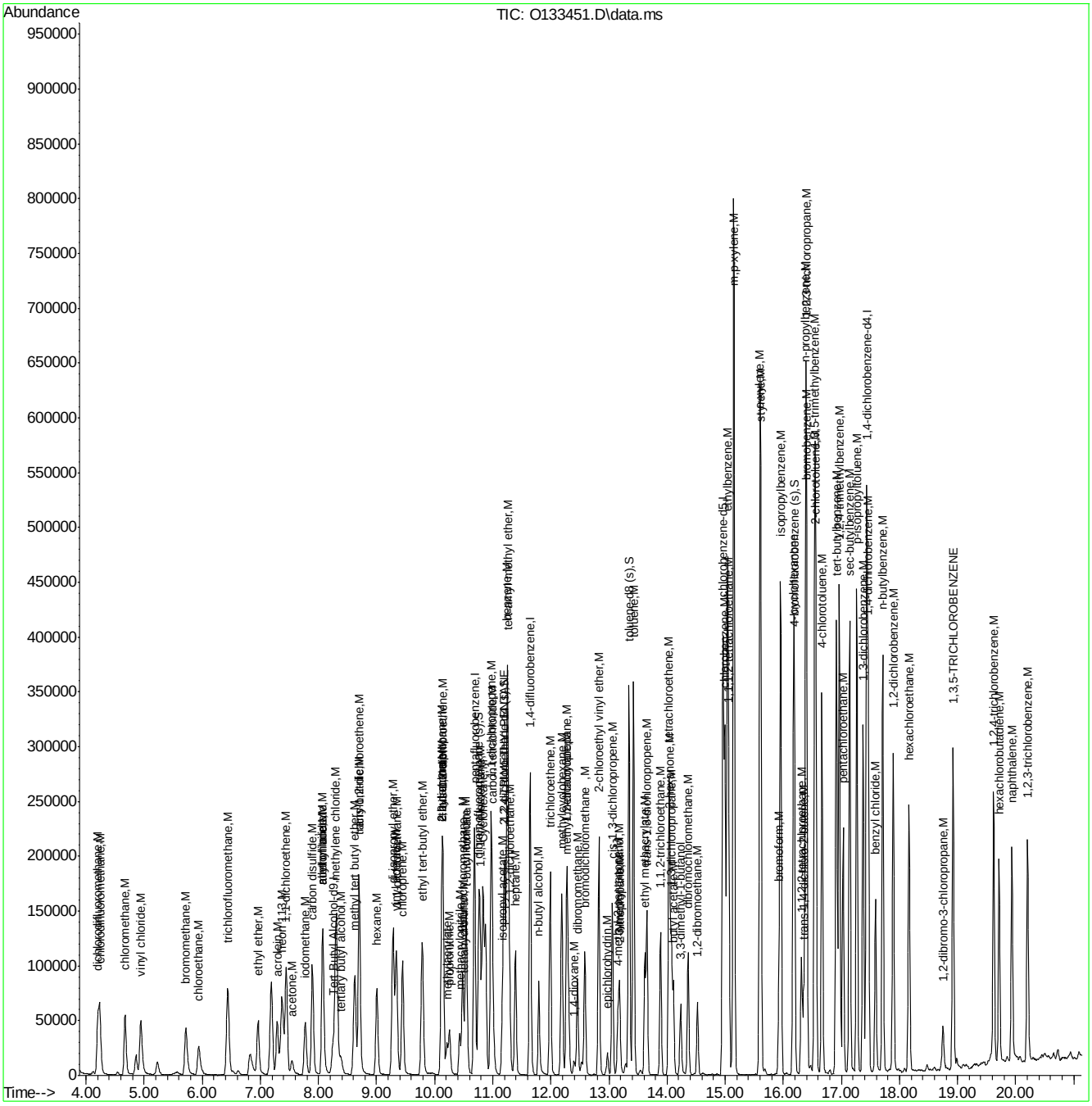
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) cyclohexanone	16.178	98	55234	487.87	ug/L	96
101) bromobenzene	16.403	156	94257	46.49	ug/L	95
102) 1,1,2,2-tetrachloroethane	16.314	83	61453	36.53	ug/L	98
103) trans-1,4-dichloro-2-b...	16.351	53	17688	35.91	ug/L	99
104) 1,2,3-trichloropropane	16.393	110	18114	36.56	ug/L	99
105) n-propylbenzene	16.388	120	95630	46.42	ug/L	93
107) 2-chlorotoluene	16.560	126	85207	45.97	ug/L	95
108) 4-chlorotoluene	16.665	126	86752	45.56	ug/L	95
109) 1,3,5-trimethylbenzene	16.539	105	299531	46.99	ug/L	98
110) tert-butylbenzene	16.916	119	271311	47.54	ug/L	97
111) pentachloroethane	17.031	167	63285	50.15	ug/L	98
112) 1,2,4-trimethylbenzene	16.963	105	300317	45.59	ug/L	98
113) sec-butylbenzene	17.141	105	366435	43.63	ug/L	99
114) 1,3-dichlorobenzene	17.371	146	167112	42.89	ug/L	99
115) p-isopropyltoluene	17.266	119	317795	44.39	ug/L	100
116) 1,4-dichlorobenzene	17.460	146	170553	42.33	ug/L	100
117) 1,2-dichlorobenzene	17.894	146	154371	42.75	ug/L	99
118) benzyl chloride	17.591	91	137608	36.46	ug/L	99
120) n-butylbenzene	17.711	92	140000	38.15	ug/L	97
121) 1,2-dibromo-3-chloropr...	18.746	75	10525	27.92	ug/L	98
122) 1,3,5-TRICHLOROBENZENE	18.919	180	122637	39.79	ug/L	100
123) 1,2,4-trichlorobenzene	19.620	180	102745	35.86	ug/L	96
124) hexachlorobutadiene	19.714	225	56722	32.40	ug/L	98
125) naphthalene	19.934	128	196305	30.56	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	90745	34.95	ug/L	98
127) hexachloroethane	18.161	201	63273	49.05	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133451.D
Acq On : 25 Feb 2013 6:47 pm
Operator : DIPAP
Sample : jb29267-11ms
Misc : MS43630,VO5887,6.5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 11:45:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205890.D
Acq On : 26 Feb 2013 4:50 pm
Operator : EmilyT
Sample : jb28910-2ms
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 17:19:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.030	65	150590	500.00 ug/L	0.02
4) pentafluorobenzene	10.252	168	238936	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	365520	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	334573	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	202790	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.279	113	112026	48.01 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.02%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	138515	49.16 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.32%		
77) toluene-d8 (s)	12.872	98	435164	49.13 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.26%		
101) 4-bromofluorobenzene (s)	15.789	95	177709	48.24 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.48%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.884	88	29641	1035.10 ug/L	95
3) tertiary butyl alcohol	8.135	59	76643	238.85 ug/L	84
6) chlorodifluoromethane	4.564	51	110533	42.31 ug/L	95
7) dichlorodifluoromethane	4.549	85	187084	58.45 ug/L	100
8) chloromethane	4.915	50	183741	51.56 ug/L	98
9) vinyl chloride	5.197	62	196767	54.42 ug/L	98
10) bromomethane	5.845	94	90613	44.76 ug/L	95
11) chloroethane	6.033	64	91805	45.18 ug/L	97
13) trichlorofluoromethane	6.556	101	208067	54.24 ug/L	99
15) ethyl ether	6.954	74	75833	44.55 ug/L	92
16) acrolein	7.178	56	315420	463.00 ug/L	100
18) 2-chloropropane	7.152	43	243896	48.70 ug/L	99
19) 1,1-dichloroethene	7.382	96	117887	48.77 ug/L	99
20) acetone	7.403	58	14052	52.57 ug/L	91
21) allyl chloride	7.895	41	267916	46.39 ug/L	97
22) acetonitrile	7.816	40	67983	516.83 ug/L	94
24) iodomethane	7.649	142	207071	48.37 ug/L	98
26) carbon disulfide	7.790	76	421862	50.71 ug/L	100
27) methylene chloride	8.067	84	133355	44.87 ug/L	95
28) 1-chloropropane	8.125	42	229043	45.69 ug/L	98
29) methyl acetate	7.868	43	118268	47.03 ug/L	99
30) methyl tert butyl ether	8.433	73	392985	48.53 ug/L	99
31) trans-1,2-dichloroethene	8.454	96	123483	49.09 ug/L	97
32) di-isopropyl ether	9.029	45	419074	49.11 ug/L	99
33) ethyl tert-butyl ether	9.489	59	422481	49.60 ug/L	98
34) 2-butanone	9.693	72	16394	48.08 ug/L #	98
35) 1,1-dichloroethane	9.008	63	225825	50.23 ug/L	100
36) chloroprene	9.128	53	178305	49.92 ug/L	99
37) acrylonitrile	8.370	53	270723	244.13 ug/L	99
38) vinyl acetate	8.992	86	24449	45.30 ug/L	93
39) ethyl acetate	9.719	45	18079	44.03 ug/L	61
40) 2,2-dichloropropane	9.761	77	185480	56.00 ug/L	99
41) cis-1,2-dichloroethene	9.730	96	131351	48.94 ug/L	98
42) propionitrile	9.771	54	204096	467.10 ug/L	94
43) bromochloromethane	10.033	128	61996	47.99 ug/L	94
44) tetrahydrofuran	10.090	72	18636	45.43 ug/L	99
45) chloroform	10.085	83	206864	50.01 ug/L	99
48) freon 113	7.367	151	82698	48.82 ug/L	97
49) methacrylonitrile	9.965	41	83120	44.35 ug/L	98
50) t-butyl formate	10.158	59	126656	47.13 ug/L	98
51) 1,1,1-trichloroethane	10.378	97	186907	51.57 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205890.D
Acq On : 26 Feb 2013 4:50 pm
Operator : EmilyT
Sample : jb28910-2ms
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 17:19:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.864	73	403812	47.91 ug/L	98
54) cyclohexane	10.477	84	199091	52.58 ug/L	97
56) 2,2,4-trimethylpentane	10.859	57	481340	52.90 ug/L	99
57) epichlorohydrin	12.422	57	72661	234.24 ug/L	99
58) n-butyl alcohol	11.251	56	204109	2171.55 ug/L	99
59) carbon tetrachloride	10.587	117	164509	52.30 ug/L	99
60) 1,1-dichloropropene	10.550	75	166547	51.22 ug/L	98
61) hexane	8.789	57	136288	45.55 ug/L	99
62) benzene	10.812	78	482424	49.81 ug/L	98
63) heptane	11.010	57	91244	54.36 ug/L	98
64) isopropyl acetate	10.723	43	244885	46.26 ug/L	100
65) 1,2-dichloroethane	10.796	62	163111	50.13 ug/L	99
67) trichloroethene	11.518	95	118611	49.74 ug/L	97
68) 2-nitropropane	12.307	43	332863	46.62 ug/L	99
69) 2-chloroethyl vinyl ether	12.307	63	422293	232.40 ug/L	99
70) methyl methacrylate	11.784	100	33383	46.65 ug/L	94
72) 1,2-dichloropropane	11.779	63	128966	49.50 ug/L	99
73) methylcyclohexane	11.784	83	213447	52.91 ug/L	97
74) dibromomethane	11.925	93	75254	49.14 ug/L	98
75) bromodichloromethane	12.056	83	160313	50.65 ug/L	99
76) cis-1,3-dichloropropene	12.542	75	201594	49.13 ug/L	95
78) 4-methyl-2-pentanone	12.652	58	53740	47.22 ug/L	98
79) toluene	12.950	92	296300	49.08 ug/L	97
80) 3-methyl-1-butanol	12.642	70	79265	901.47 ug/L	97
81) trans-1,3-dichloropropene	13.128	75	189632	48.96 ug/L	99
82) ethyl methacrylate	13.143	69	171394	47.31 ug/L	99
83) 1,1,2-trichloroethane	13.358	83	91297	47.81 ug/L	99
84) 2-hexanone	13.562	58	49657	47.87 ug/L	99
86) tetrachloroethene	13.588	166	130972	47.82 ug/L	95
87) 1,3-dichloropropane	13.562	76	190607	47.50 ug/L	100
88) butyl acetate	13.645	56	89499	50.64 ug/L	95
89) 3,3-dimethyl-1-butanol	13.729	57	139097	438.69 ug/L	99
90) dibromochloromethane	13.844	129	123678	48.52 ug/L	99
91) 1,2-dibromoethane	14.017	107	114005	48.27 ug/L	99
92) chlorobenzene	14.539	112	319579	47.03 ug/L	97
93) 1,1,1,2-tetrachloroethane	14.602	131	120448	47.90 ug/L	98
94) ethylbenzene	14.613	91	599720	50.76 ug/L	99
95) m,p-xylene	14.733	106	452139	96.03 ug/L	98
96) o-xylene	15.193	106	221842	47.48 ug/L	98
97) styrene	15.198	104	374440	47.60 ug/L	99
98) bromoform	15.465	173	92007	46.62 ug/L	98
100) isopropylbenzene	15.580	105	595229	49.13 ug/L	98
102) bromobenzene	16.008	156	153392	46.58 ug/L	97
103) cyclohexanone	15.737	55	45466	484.18 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.873	83	158918	42.53 ug/L	99
105) trans-1,4-dichloro-2-b...	15.930	53	52226	51.23 ug/L	97
106) 1,2,3-trichloropropane	15.967	110	45923	43.29 ug/L	96
107) n-propylbenzene	16.035	91	728849	50.48 ug/L	99
109) 2-chlorotoluene	16.191	126	139497	46.36 ug/L	95
110) 4-chlorotoluene	16.301	91	434987	46.15 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	570200	50.63 ug/L	99
112) tert-butylbenzene	16.599	119	441162	46.67 ug/L	98
113) pentachloroethane	16.667	167	99814	47.35 ug/L	99
114) 1,2,4-trimethylbenzene	16.641	105	629022	54.95 ug/L	98
115) sec-butylbenzene	16.840	105	687201	49.35 ug/L	98
116) 1,3-dichlorobenzene	17.028	146	296420	45.64 ug/L	99
117) p-isopropyltoluene	16.970	119	554438	48.08 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	308264	45.48 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205890.D
Acq On : 26 Feb 2013 4:50 pm
Operator : EmilyT
Sample : jb28910-2ms
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 17:19:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.242	91	337359	54.43 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	295799	44.82 ug/L	98
122) n-butylbenzene	17.430	92	311271	49.14 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.398	75	31240	43.07 ug/L	99
125) 1,3,5-trichlorobenzene	18.633	180	249803	49.63 ug/L	99
126) 1,2,4-trichlorobenzene	19.365	180	215538	52.83 ug/L	100
127) hexachlorobutadiene	19.516	225	117082	49.27 ug/L	99
128) naphthalene	19.684	128	792248	88.29 ug/L	99
129) 1,2,3-trichlorobenzene	19.961	180	169893	51.74 ug/L	98
130) hexachloroethane	17.864	119	97627	44.72 ug/L	98

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

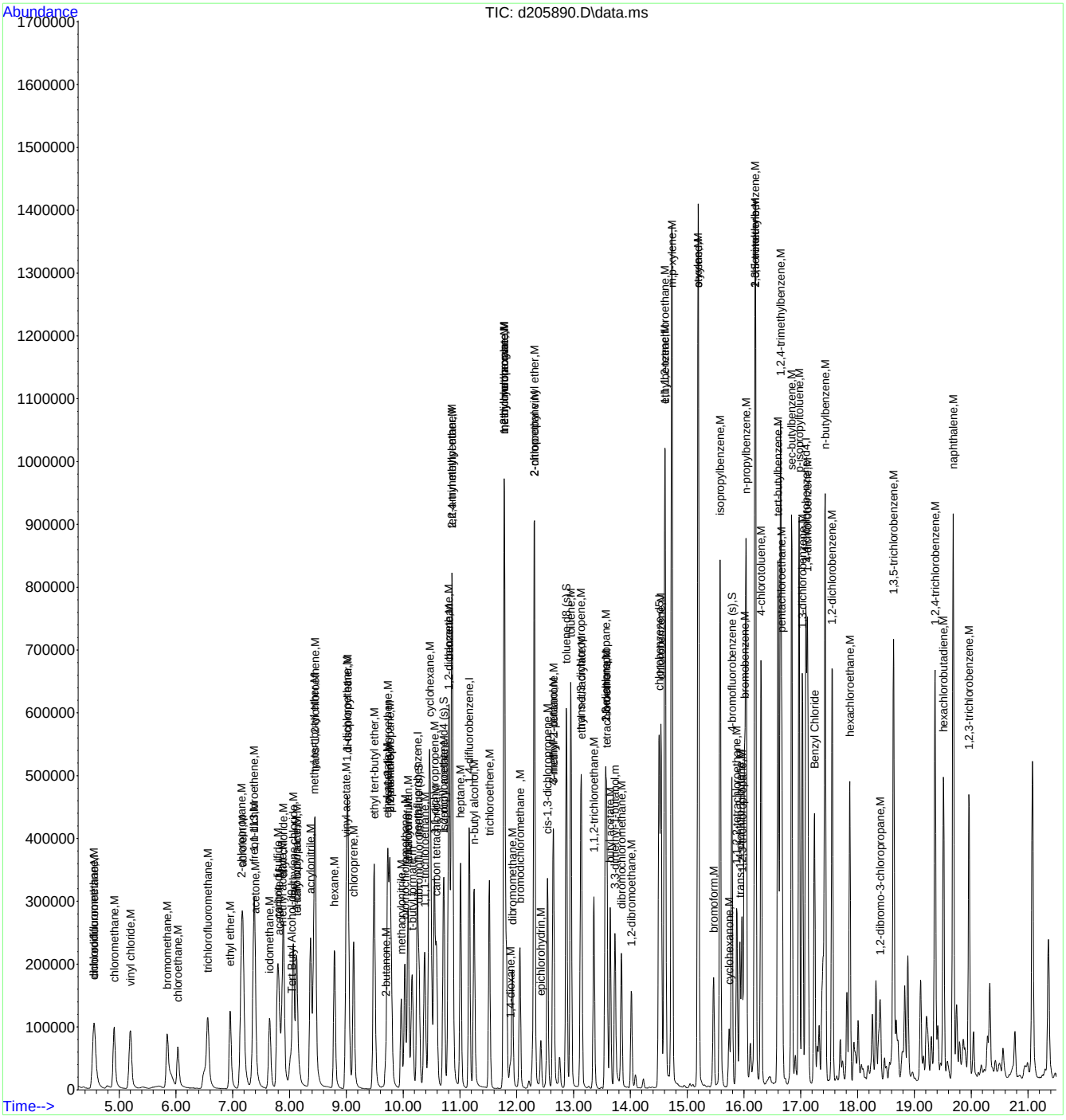
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205890.D
Acq On : 26 Feb 2013 4:50 pm
Operator : EmilyT
Sample : jb28910-2ms
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 17:19:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205891.D
Acq On : 26 Feb 2013 5:19 pm
Operator : EmilyT
Sample : jb28910-2msd
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 09:11:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	147821	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	234246	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.162	114	354044	50.00 ug/L	-0.01
85) chlorobenzene-d5	14.508	117	325963	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.090	152	200874	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.278	113	109315	47.79 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.58%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	135245	48.96 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.92%		
77) toluene-d8 (s)	12.871	98	421676	49.15 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.30%		
101) 4-bromofluorobenzene (s)	15.789	95	173668	47.59 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.18%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.883	88	30456	1083.48 ug/L	92
3) tertiary butyl alcohol	8.135	59	77417	245.78 ug/L	93
6) chlorodifluoromethane	4.564	51	117142	45.74 ug/L	94
7) dichlorodifluoromethane	4.548	85	212826	67.83 ug/L	98
8) chloromethane	4.909	50	208819	59.77 ug/L	98
9) vinyl chloride	5.197	62	226161	63.80 ug/L	98
10) bromomethane	5.845	94	101409	51.09 ug/L	100
11) chloroethane	6.033	64	105509	52.96 ug/L	98
13) trichlorofluoromethane	6.556	101	237239	63.08 ug/L	100
15) ethyl ether	6.953	74	85223	51.07 ug/L	94
16) acrolein	7.178	56	345417	517.19 ug/L	99
18) 2-chloropropane	7.147	43	273538	55.71 ug/L	98
19) 1,1-dichloroethene	7.382	96	131557	55.51 ug/L	96
20) acetone	7.398	58	14664	55.95 ug/L	94
21) allyl chloride	7.894	41	291794	51.53 ug/L	96
22) acetonitrile	7.811	40	68790	533.43 ug/L	99
24) iodomethane	7.649	142	233417	55.62 ug/L	100
26) carbon disulfide	7.784	76	475895	58.35 ug/L	99
27) methylene chloride	8.067	84	148583	50.99 ug/L	97
28) 1-chloropropane	8.124	42	268962	54.72 ug/L	99
29) methyl acetate	7.868	43	120847	49.02 ug/L	99
30) methyl tert butyl ether	8.433	73	429984	54.17 ug/L	98
31) trans-1,2-dichloroethene	8.454	96	137139	55.61 ug/L	99
32) di-isopropyl ether	9.029	45	433326	51.80 ug/L	97
33) ethyl tert-butyl ether	9.489	59	436209	52.23 ug/L	98
34) 2-butanone	9.687	72	17890	53.52 ug/L #	98
35) 1,1-dichloroethane	9.008	63	249672	56.64 ug/L	99
36) chloroprene	9.128	53	187045	53.41 ug/L	97
37) acrylonitrile	8.370	53	293392	269.87 ug/L	99
38) vinyl acetate	8.992	86	25171	47.57 ug/L	99
39) ethyl acetate	9.724	45	17683	43.93 ug/L	70
40) 2,2-dichloropropane	9.766	77	206880	63.71 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	144934	55.09 ug/L	100
42) propionitrile	9.766	54	219822	513.16 ug/L	99
43) bromochloromethane	10.032	128	69634	54.98 ug/L	96
44) tetrahydrofuran	10.095	72	20364	50.64 ug/L	99
45) chloroform	10.085	83	230774	56.91 ug/L	100
48) freon 113	7.371	151	86741	52.23 ug/L	96
49) methacrylonitrile	9.965	41	90850	49.45 ug/L	98
50) t-butyl formate	10.158	59	131703	49.99 ug/L	98
51) 1,1,1-trichloroethane	10.378	97	213041	59.96 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205891.D
Acq On : 26 Feb 2013 5:19 pm
Operator : EmilyT
Sample : jb28910-2msd
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 09:11:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.858	73	416760	50.43 ug/L	97
54) cyclohexane	10.477	84	219219	59.77 ug/L	98
56) 2,2,4-trimethylpentane	10.858	57	483171	54.82 ug/L	99
57) epichlorohydrin	12.422	57	74152	246.80 ug/L	99
58) n-butyl alcohol	11.251	56	208506	2290.23 ug/L	98
59) carbon tetrachloride	10.587	117	184511	60.56 ug/L	99
60) 1,1-dichloropropene	10.550	75	182158	57.84 ug/L	98
61) hexane	8.788	57	136065	46.95 ug/L	97
62) benzene	10.811	78	527870	56.27 ug/L	99
63) heptane	11.010	57	86272	53.06 ug/L	99
64) isopropyl acetate	10.723	43	247371	48.24 ug/L	100
65) 1,2-dichloroethane	10.796	62	179738	57.03 ug/L	100
67) trichloroethene	11.517	95	129632	56.12 ug/L	100
68) 2-nitropropane	12.307	43	337615	48.82 ug/L	99
69) 2-chloroethyl vinyl ether	12.307	63	430610	244.66 ug/L	100
70) methyl methacrylate	11.784	100	36481	52.63 ug/L	98
72) 1,2-dichloropropane	11.779	63	140136	55.53 ug/L	97
73) methylcyclohexane	11.779	83	217582	55.68 ug/L	98
74) dibromomethane	11.920	93	82407	55.55 ug/L	98
75) bromodichloromethane	12.056	83	173619	56.63 ug/L	97
76) cis-1,3-dichloropropene	12.542	75	219534	55.24 ug/L	96
78) 4-methyl-2-pentanone	12.652	58	58889	53.42 ug/L	97
79) toluene	12.950	92	322518	55.16 ug/L	100
80) 3-methyl-1-butanol	12.641	70	79418	932.49 ug/L	95
81) trans-1,3-dichloropropene	13.127	75	207580	55.33 ug/L	98
82) ethyl methacrylate	13.143	69	189103	53.89 ug/L	100
83) 1,1,2-trichloroethane	13.357	83	99154	53.61 ug/L	98
84) 2-hexanone	13.561	58	53681	53.43 ug/L	99
86) tetrachloroethene	13.588	166	141389	52.99 ug/L	97
87) 1,3-dichloropropane	13.561	76	209266	53.52 ug/L	99
88) butyl acetate	13.645	56	90287	52.43 ug/L	96
89) 3,3-dimethyl-1-butanol	13.729	57	141657	458.56 ug/L	98
90) dibromochloromethane	13.844	129	135315	54.49 ug/L	99
91) 1,2-dibromoethane	14.016	107	126780	55.09 ug/L	97
92) chlorobenzene	14.539	112	354304	53.51 ug/L	98
93) 1,1,1,2-tetrachloroethane	14.602	131	133485	54.48 ug/L	97
94) ethylbenzene	14.612	91	648289	56.32 ug/L	99
95) m,p-xylene	14.732	106	490124	106.85 ug/L	99
96) o-xylene	15.193	106	242273	53.22 ug/L	97
97) styrene	15.198	104	411393	53.68 ug/L	99
98) bromoform	15.464	173	102922	53.53 ug/L	98
100) isopropylbenzene	15.579	105	655551	54.62 ug/L	98
102) bromobenzene	16.008	156	170819	52.37 ug/L	96
103) cyclohexanone	15.741	55	49505	532.22 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.872	83	173864	46.98 ug/L	100
105) trans-1,4-dichloro-2-b...	15.930	53	56291	55.74 ug/L	99
106) 1,2,3-trichloropropane	15.966	110	50160	47.74 ug/L	85
107) n-propylbenzene	16.034	91	793221	55.46 ug/L	99
109) 2-chlorotoluene	16.191	126	154914	51.98 ug/L	98
110) 4-chlorotoluene	16.301	91	479958	51.41 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	610162	54.69 ug/L	100
112) tert-butylbenzene	16.599	119	480984	51.37 ug/L	98
113) pentachloroethane	16.672	167	111722	53.51 ug/L	97
114) 1,2,4-trimethylbenzene	16.641	105	648398	57.18 ug/L	99
115) sec-butylbenzene	16.839	105	750546	54.42 ug/L	98
116) 1,3-dichlorobenzene	17.028	146	329387	51.20 ug/L	99
117) p-isopropyltoluene	16.970	119	609848	53.38 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	339902	50.62 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205891.D
Acq On : 26 Feb 2013 5:19 pm
Operator : EmilyT
Sample : jb28910-2msd
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 09:11:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

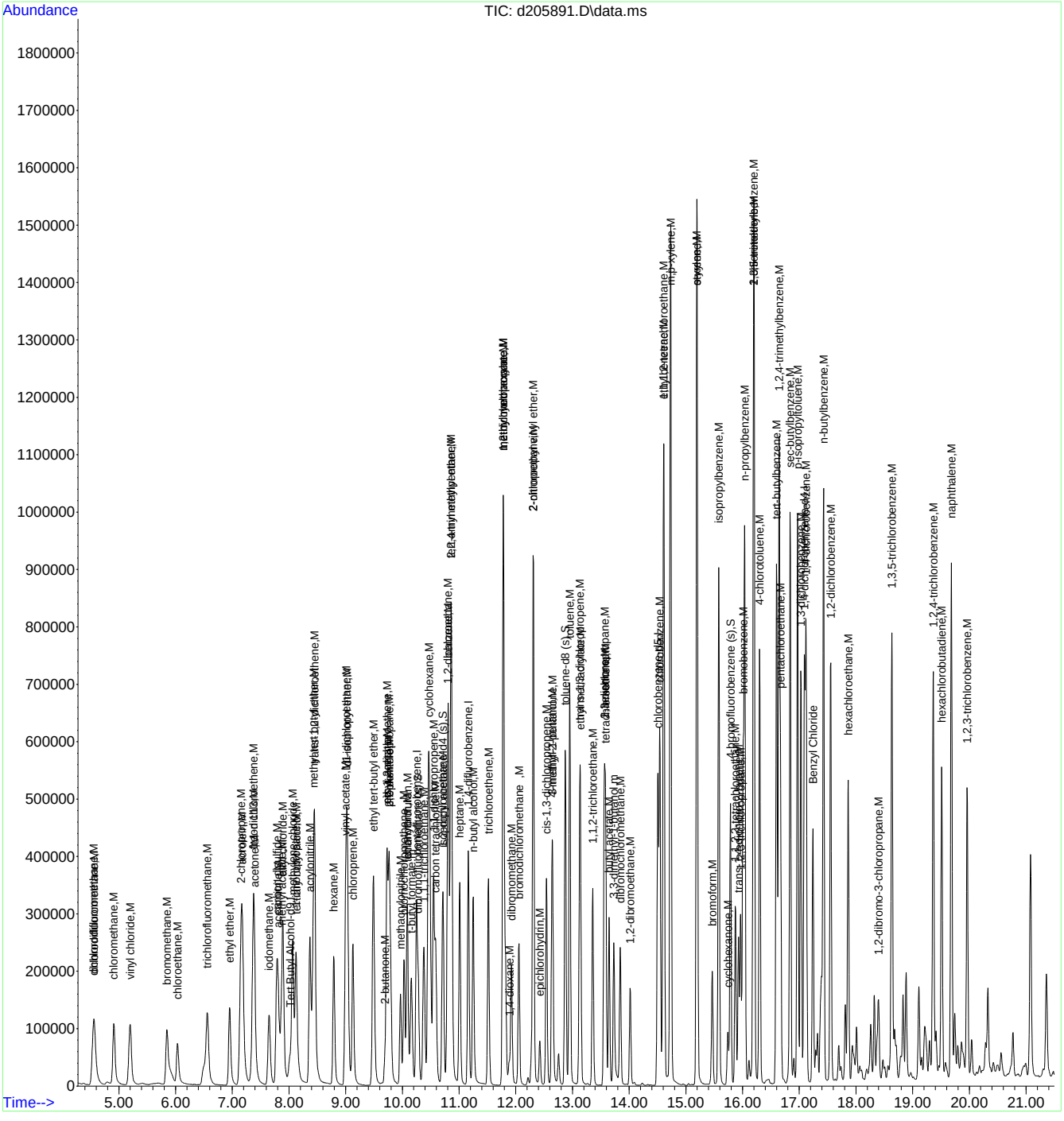
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.242	91	346106	56.37 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	325913	49.86 ug/L	98
122) n-butylbenzene	17.430	92	338137	53.89 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.397	75	35160	48.94 ug/L	97
125) 1,3,5-trichlorobenzene	18.633	180	275780	55.32 ug/L	99
126) 1,2,4-trichlorobenzene	19.364	180	237386	58.74 ug/L	99
127) hexachlorobutadiene	19.511	225	128797	54.72 ug/L	100
128) naphthalene	19.683	128	796178	89.57 ug/L	100
129) 1,2,3-trichlorobenzene	19.960	180	190755	58.65 ug/L	99
130) hexachloroethane	17.864	119	106693	49.34 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205891.D
Acq On : 26 Feb 2013 5:19 pm
Operator : EmilyT
Sample : jb28910-2msd
Misc : ms43445,vd8399,5.5,,100,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 09:11:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205931.D
Acq On : 27 Feb 2013 2:25 pm
Operator : EmilyT
Sample : jb29173-8ms
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 16:12:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.022	65	135613	500.00 ug/L	0.00
4) pentafluorobenzene	10.254	168	225442	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.169	114	342489	50.00 ug/L	0.00
85) chlorobenzene-d5	14.510	117	316812	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.092	152	196857	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.280	113	105435	47.89 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.78%		
47) 1,2-dichloroethane-d4 (s)	10.709	65	130430	49.07 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.14%		
77) toluene-d8 (s)	12.879	98	409052	49.28 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.56%		
101) 4-bromofluorobenzene (s)	15.791	95	170960	47.81 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.62%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.885	88	25065	971.96 ug/L	93
3) tertiary butyl alcohol	8.142	59	66464	230.00 ug/L #	80
6) chlorodifluoromethane	4.561	51	90642	36.78 ug/L	92
7) dichlorodifluoromethane	4.550	85	174656	57.84 ug/L	99
8) chloromethane	4.911	50	153693	45.71 ug/L	99
9) vinyl chloride	5.193	62	159992	46.90 ug/L	98
10) bromomethane	5.836	94	96987	50.77 ug/L	99
11) chloroethane	6.035	64	98522	51.38 ug/L	100
13) trichlorofluoromethane	6.558	101	203316	56.17 ug/L	100
15) ethyl ether	6.955	74	73757	45.93 ug/L	94
16) acrolein	7.180	56	267567	416.27 ug/L	100
18) 2-chloropropane	7.154	43	225514	47.73 ug/L	99
19) 1,1-dichloroethene	7.384	96	110884	48.61 ug/L	99
20) acetone	7.405	58	13665	54.18 ug/L	95
21) allyl chloride	7.896	41	266641	48.93 ug/L	98
22) acetonitrile	7.823	40	56474	455.03 ug/L	95
24) iodomethane	7.651	142	198764	49.21 ug/L	99
26) carbon disulfide	7.786	76	399524	50.90 ug/L	99
27) methylene chloride	8.069	84	128134	45.69 ug/L	96
28) 1-chloropropane	8.126	42	229229	48.46 ug/L	100
29) methyl acetate	7.870	43	101997	42.99 ug/L	99
30) methyl tert butyl ether	8.435	73	371121	48.58 ug/L	98
31) trans-1,2-dichloroethene	8.456	96	117413	49.47 ug/L	99
32) di-isopropyl ether	9.031	45	356807	44.32 ug/L	97
33) ethyl tert-butyl ether	9.491	59	357480	44.48 ug/L	98
34) 2-butanone	9.689	72	15636	48.60 ug/L #	96
35) 1,1-dichloroethane	9.010	63	215218	50.73 ug/L	100
36) chloroprene	9.130	53	149846	44.46 ug/L	98
37) acrylonitrile	8.372	53	255760	244.44 ug/L	100
38) vinyl acetate	8.999	86	20559	40.37 ug/L	93
39) ethyl acetate	9.721	45	14985	38.68 ug/L	85
40) 2,2-dichloropropane	9.768	77	158449	50.70 ug/L	99
41) cis-1,2-dichloroethene	9.731	96	125368	49.51 ug/L	98
42) propionitrile	9.773	54	193516	469.39 ug/L	93
43) bromochloromethane	10.035	128	60536	49.67 ug/L	97
44) tetrahydrofuran	10.092	72	17409	44.98 ug/L	96
45) chloroform	10.087	83	197530	50.61 ug/L	99
48) freon 113	7.368	151	68388	42.79 ug/L	97
49) methacrylonitrile	9.967	41	78972	44.66 ug/L	96
50) t-butyl formate	10.160	59	105434	41.58 ug/L	97
51) 1,1,1-trichloroethane	10.380	97	179781	52.57 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205931.D
Acq On : 27 Feb 2013 2:25 pm
Operator : EmilyT
Sample : jb29173-8ms
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 16:12:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.861	73	341265	42.91 ug/L	98
54) cyclohexane	10.479	84	187308	52.79 ug/L	97
56) 2,2,4-trimethylpentane	10.861	57	378707	44.42 ug/L	99
57) epichlorohydrin	12.429	57	59995	206.42 ug/L	97
58) n-butyl alcohol	11.253	56	172892	1963.12 ug/L	100
59) carbon tetrachloride	10.589	117	157061	53.29 ug/L	99
60) 1,1-dichloropropene	10.552	75	157381	51.66 ug/L	99
61) hexane	8.796	57	98431	35.11 ug/L	97
62) benzene	10.813	78	459631	50.65 ug/L	99
63) heptane	11.012	57	62621	39.81 ug/L	98
64) isopropyl acetate	10.725	43	201035	40.53 ug/L	99
65) 1,2-dichloroethane	10.798	62	155163	50.89 ug/L	99
67) trichloroethene	11.519	95	112516	50.35 ug/L	98
68) 2-nitropropane	12.309	43	284487	42.52 ug/L	100
69) 2-chloroethyl vinyl ether	12.314	63	361870	212.54 ug/L	99
70) methyl methacrylate	11.786	100	31705	47.29 ug/L	98
72) 1,2-dichloropropane	11.781	63	122888	50.34 ug/L	100
73) methylcyclohexane	11.786	83	172554	45.65 ug/L	99
74) dibromomethane	11.922	93	71515	49.83 ug/L	98
75) bromodichloromethane	12.058	83	150772	50.84 ug/L	97
76) cis-1,3-dichloropropene	12.544	75	188828	49.11 ug/L	95
78) 4-methyl-2-pentanone	12.654	58	50489	47.35 ug/L	93
79) toluene	12.952	92	282211	49.89 ug/L	99
80) 3-methyl-1-butanol	12.643	70	65594	796.16 ug/L	97
81) trans-1,3-dichloropropene	13.130	75	177633	48.94 ug/L	99
82) ethyl methacrylate	13.145	69	163863	48.28 ug/L	98
83) 1,1,2-trichloroethane	13.360	83	86990	48.62 ug/L	98
84) 2-hexanone	13.563	58	47279	48.64 ug/L	98
86) tetrachloroethene	13.590	166	123619	47.67 ug/L	97
87) 1,3-dichloropropane	13.563	76	181982	47.89 ug/L	99
88) butyl acetate	13.647	56	75596	45.17 ug/L	99
89) 3,3-dimethyl-1-butanol	13.731	57	111668	371.93 ug/L	98
90) dibromochloromethane	13.846	129	118083	48.92 ug/L	97
91) 1,2-dibromoethane	14.024	107	110538	49.42 ug/L	95
92) chlorobenzene	14.541	112	307568	47.80 ug/L	98
93) 1,1,1,2-tetrachloroethane	14.604	131	116419	48.89 ug/L	99
94) ethylbenzene	14.614	91	549274	49.09 ug/L	100
95) m,p-xylene	14.735	106	422916	94.86 ug/L	97
96) o-xylene	15.195	106	211805	47.87 ug/L	95
97) styrene	15.200	104	362958	48.72 ug/L	99
98) bromoform	15.466	173	91206	48.80 ug/L	97
100) isopropylbenzene	15.581	105	554298	47.13 ug/L	99
102) bromobenzene	16.010	156	150578	47.11 ug/L	96
103) cyclohexanone	15.743	55	40138	440.32 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.874	83	153756	42.39 ug/L	100
105) trans-1,4-dichloro-2-b...	15.932	53	47342	47.84 ug/L	98
106) 1,2,3-trichloropropane	15.968	110	45217	43.91 ug/L	86
107) n-propylbenzene	16.041	91	659091	47.03 ug/L	100
109) 2-chlorotoluene	16.193	126	135141	46.27 ug/L	97
110) 4-chlorotoluene	16.303	91	422156	46.14 ug/L	99
111) 1,3,5-trimethylbenzene	16.204	105	481366	44.03 ug/L	99
112) tert-butylbenzene	16.601	119	412595	44.96 ug/L	99
113) pentachloroethane	16.674	167	94777	46.32 ug/L	97
114) 1,2,4-trimethylbenzene	16.648	105	493796	44.43 ug/L	99
115) sec-butylbenzene	16.841	105	625655	46.29 ug/L	98
116) 1,3-dichlorobenzene	17.035	146	288323	45.73 ug/L	98
117) p-isopropyltoluene	16.972	119	511200	45.66 ug/L	98
118) 1,4-dichlorobenzene	17.124	146	298903	45.43 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205931.D
Acq On : 27 Feb 2013 2:25 pm
Operator : EmilyT
Sample : jb29173-8ms
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 16:12:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.244	91	231727	38.51 ug/L	99
121) 1,2-dichlorobenzene	17.558	146	284007	44.33 ug/L	98
122) n-butylbenzene	17.432	92	275482	44.80 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.399	75	28957	41.13 ug/L	98
125) 1,3,5-trichlorobenzene	18.635	180	231715	47.43 ug/L	100
126) 1,2,4-trichlorobenzene	19.367	180	199884	50.47 ug/L	100
127) hexachlorobutadiene	19.518	225	115747	50.18 ug/L	98
128) naphthalene	19.685	128	419538	48.16 ug/L	99
129) 1,2,3-trichlorobenzene	19.968	180	162702	51.04 ug/L	98
130) hexachloroethane	17.866	119	99162	46.79 ug/L	96

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

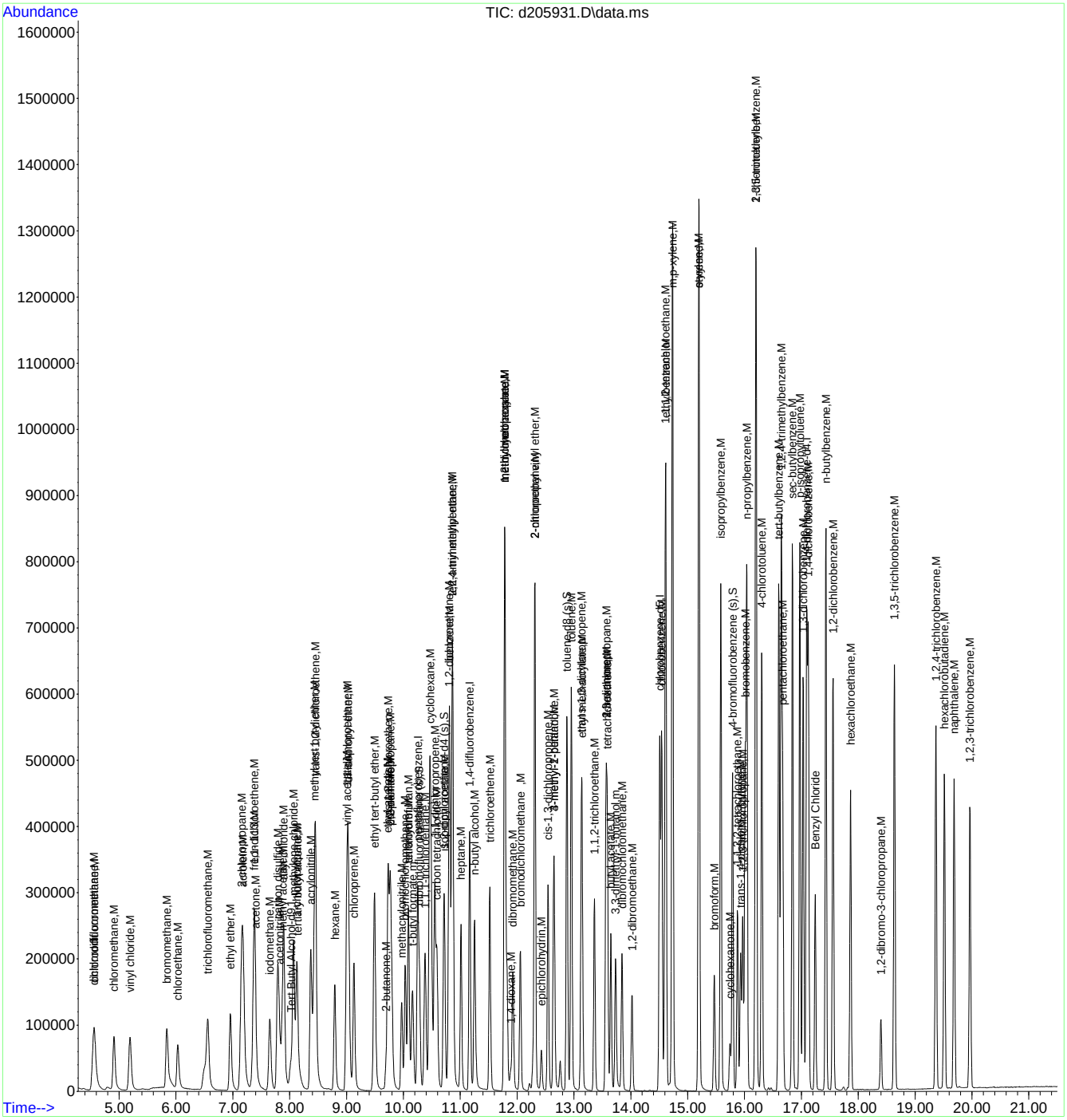
7.4.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205931.D
Acq On : 27 Feb 2013 2:25 pm
Operator : EmilyT
Sample : jb29173-8ms
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 16:12:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205932.D
Acq On : 27 Feb 2013 2:54 pm
Operator : EmilyT
Sample : jb29173-8msd
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 16:13:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.026	65	140942	500.00 ug/L	0.01
4) pentafluorobenzene	10.253	168	228300	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	346563	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	319762	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	194167	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	107044	48.01 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.02%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	130335	48.42 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.84%		
77) toluene-d8 (s)	12.877	98	416265	49.56 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.12%		
101) 4-bromofluorobenzene (s)	15.789	95	167466	47.48 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 94.96%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.884	88	31864	1188.89 ug/L	96
3) tertiary butyl alcohol	8.141	59	82336	274.16 ug/L #	71
6) chlorodifluoromethane	4.565	51	122829	49.21 ug/L	94
7) dichlorodifluoromethane	4.554	85	202695	66.28 ug/L	99
8) chloromethane	4.910	50	177399	52.10 ug/L	98
9) vinyl chloride	5.197	62	188751	54.64 ug/L	99
10) bromomethane	5.846	94	107931	55.80 ug/L	99
11) chloroethane	6.034	64	111859	57.61 ug/L	97
13) trichlorofluoromethane	6.562	101	232398	63.40 ug/L	99
15) ethyl ether	6.954	74	81035	49.83 ug/L	94
16) acrolein	7.179	56	319846	491.37 ug/L	99
18) 2-chloropropane	7.147	43	250036	52.25 ug/L	100
19) 1,1-dichloroethene	7.383	96	122944	53.23 ug/L	98
20) acetone	7.398	58	14945	58.51 ug/L	99
21) allyl chloride	7.895	41	279586	50.66 ug/L	98
22) acetonitrile	7.816	40	70877	563.93 ug/L	92
24) iodomethane	7.649	142	218206	53.35 ug/L	100
26) carbon disulfide	7.790	76	440125	55.37 ug/L	99
27) methylene chloride	8.067	84	139934	49.27 ug/L	94
28) 1-chloropropane	8.125	42	237042	49.48 ug/L	99
29) methyl acetate	7.869	43	130358	54.25 ug/L	99
30) methyl tert butyl ether	8.439	73	401807	51.93 ug/L	99
31) trans-1,2-dichloroethene	8.454	96	129828	54.01 ug/L	100
32) di-isopropyl ether	9.029	45	469210	57.55 ug/L	98
33) ethyl tert-butyl ether	9.489	59	470086	57.76 ug/L	98
34) 2-butanone	9.693	72	16913	51.91 ug/L #	99
35) 1,1-dichloroethane	9.008	63	235590	54.84 ug/L	99
36) chloroprene	9.129	53	197311	57.81 ug/L	98
37) acrylonitrile	8.371	53	276312	260.78 ug/L	99
38) vinyl acetate	8.993	86	26790	51.95 ug/L	94
39) ethyl acetate	9.720	45	19920	50.77 ug/L	49
40) 2,2-dichloropropane	9.761	77	173640	54.87 ug/L	97
41) cis-1,2-dichloroethene	9.730	96	136927	53.40 ug/L	98
42) propionitrile	9.772	54	208258	498.83 ug/L	97
43) bromochloromethane	10.033	128	65196	52.82 ug/L	96
44) tetrahydrofuran	10.091	72	19241	49.09 ug/L	98
45) chloroform	10.085	83	216917	54.88 ug/L	100
48) freon 113	7.367	151	89490	55.29 ug/L	98
49) methacrylonitrile	9.970	41	85003	47.47 ug/L	98
50) t-butyl formate	10.159	59	142190	55.38 ug/L	97
51) 1,1,1-trichloroethane	10.378	97	196567	56.76 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205932.D
Acq On : 27 Feb 2013 2:54 pm
Operator : EmilyT
Sample : jb29173-8msd
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 16:13:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.864	73	447802	55.60 ug/L	99
54) cyclohexane	10.478	84	205263	57.18 ug/L	96
56) 2,2,4-trimethylpentane	10.859	57	477334	55.33 ug/L	99
57) epichlorohydrin	12.428	57	79017	268.67 ug/L	98
58) n-butyl alcohol	11.251	56	225052	2525.33 ug/L	99
59) carbon tetrachloride	10.587	117	171578	57.53 ug/L	99
60) 1,1-dichloropropene	10.551	75	170834	55.41 ug/L	100
61) hexane	8.794	57	128706	45.37 ug/L	99
62) benzene	10.812	78	502231	54.70 ug/L	99
63) heptane	11.011	57	80514	50.59 ug/L	98
64) isopropyl acetate	10.723	43	271760	54.14 ug/L	100
65) 1,2-dichloroethane	10.796	62	168263	54.54 ug/L	99
67) trichloroethene	11.518	95	123981	54.83 ug/L	97
68) 2-nitropropane	12.313	43	367534	54.29 ug/L	99
69) 2-chloroethyl vinyl ether	12.313	63	478596	277.79 ug/L	100
70) methyl methacrylate	11.785	100	34503	50.85 ug/L	94
72) 1,2-dichloropropane	11.779	63	133571	54.08 ug/L	98
73) methylcyclohexane	11.785	83	222722	58.23 ug/L	98
74) dibromomethane	11.926	93	78022	53.73 ug/L	99
75) bromodichloromethane	12.056	83	167131	55.69 ug/L	98
76) cis-1,3-dichloropropene	12.543	75	205671	52.87 ug/L	96
78) 4-methyl-2-pentanone	12.652	58	55145	51.10 ug/L	95
79) toluene	12.950	92	311245	54.38 ug/L	99
80) 3-methyl-1-butanol	12.642	70	87260	1046.68 ug/L	97
81) trans-1,3-dichloropropene	13.128	75	194688	53.01 ug/L	99
82) ethyl methacrylate	13.144	69	179040	52.13 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	94516	52.21 ug/L	96
84) 2-hexanone	13.562	58	50429	51.28 ug/L	98
86) tetrachloroethene	13.588	166	134818	51.51 ug/L	96
87) 1,3-dichloropropane	13.562	76	199221	51.94 ug/L	99
88) butyl acetate	13.646	56	98114	58.08 ug/L	95
89) 3,3-dimethyl-1-butanol	13.729	57	149785	494.28 ug/L	97
90) dibromochloromethane	13.844	129	129761	53.26 ug/L	100
91) 1,2-dibromoethane	14.022	107	119652	53.00 ug/L	97
92) chlorobenzene	14.545	112	335650	51.68 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	127191	52.92 ug/L	99
94) ethylbenzene	14.613	91	597100	52.88 ug/L	99
95) m,p-xylene	14.733	106	461040	102.46 ug/L	100
96) o-xylene	15.198	106	230466	51.61 ug/L	99
97) styrene	15.198	104	392580	52.21 ug/L	99
98) bromoform	15.470	173	97203	51.53 ug/L	99
100) isopropylbenzene	15.580	105	604695	52.12 ug/L	99
102) bromobenzene	16.014	156	161024	51.07 ug/L	97
103) cyclohexanone	15.742	55	44772	497.96 ug/L	96
104) 1,1,2,2-tetrachloroethane	15.878	83	165224	46.19 ug/L	99
105) trans-1,4-dichloro-2-b...	15.930	53	49676	50.89 ug/L	98
106) 1,2,3-trichloropropane	15.967	110	47436	46.71 ug/L	88
107) n-propylbenzene	16.040	91	710692	51.41 ug/L	99
109) 2-chlorotoluene	16.192	126	146111	50.72 ug/L	100
110) 4-chlorotoluene	16.302	91	452494	50.14 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	521150	48.33 ug/L	99
112) tert-butylbenzene	16.600	119	451732	49.91 ug/L	99
113) pentachloroethane	16.673	167	104624	51.84 ug/L	98
114) 1,2,4-trimethylbenzene	16.647	105	533390	48.66 ug/L	100
115) sec-butylbenzene	16.840	105	680982	51.08 ug/L	98
116) 1,3-dichlorobenzene	17.033	146	308378	49.59 ug/L	98
117) p-isopropyltoluene	16.971	119	553238	50.10 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	320204	49.34 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205932.D
Acq On : 27 Feb 2013 2:54 pm
Operator : EmilyT
Sample : jb29173-8msd
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 16:13:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.243	91	298475	50.29 ug/L	100
121) 1,2-dichlorobenzene	17.556	146	304829	48.24 ug/L	99
122) n-butylbenzene	17.431	92	299341	49.35 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.398	75	31710	45.66 ug/L	96
125) 1,3,5-trichlorobenzene	18.638	180	253150	52.53 ug/L	99
126) 1,2,4-trichlorobenzene	19.365	180	216739	55.48 ug/L	99
127) hexachlorobutadiene	19.517	225	124642	54.78 ug/L	99
128) naphthalene	19.684	128	456946	53.18 ug/L	100
129) 1,2,3-trichlorobenzene	19.966	180	175595	55.85 ug/L	97
130) hexachloroethane	17.865	119	108736	52.02 ug/L	97

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

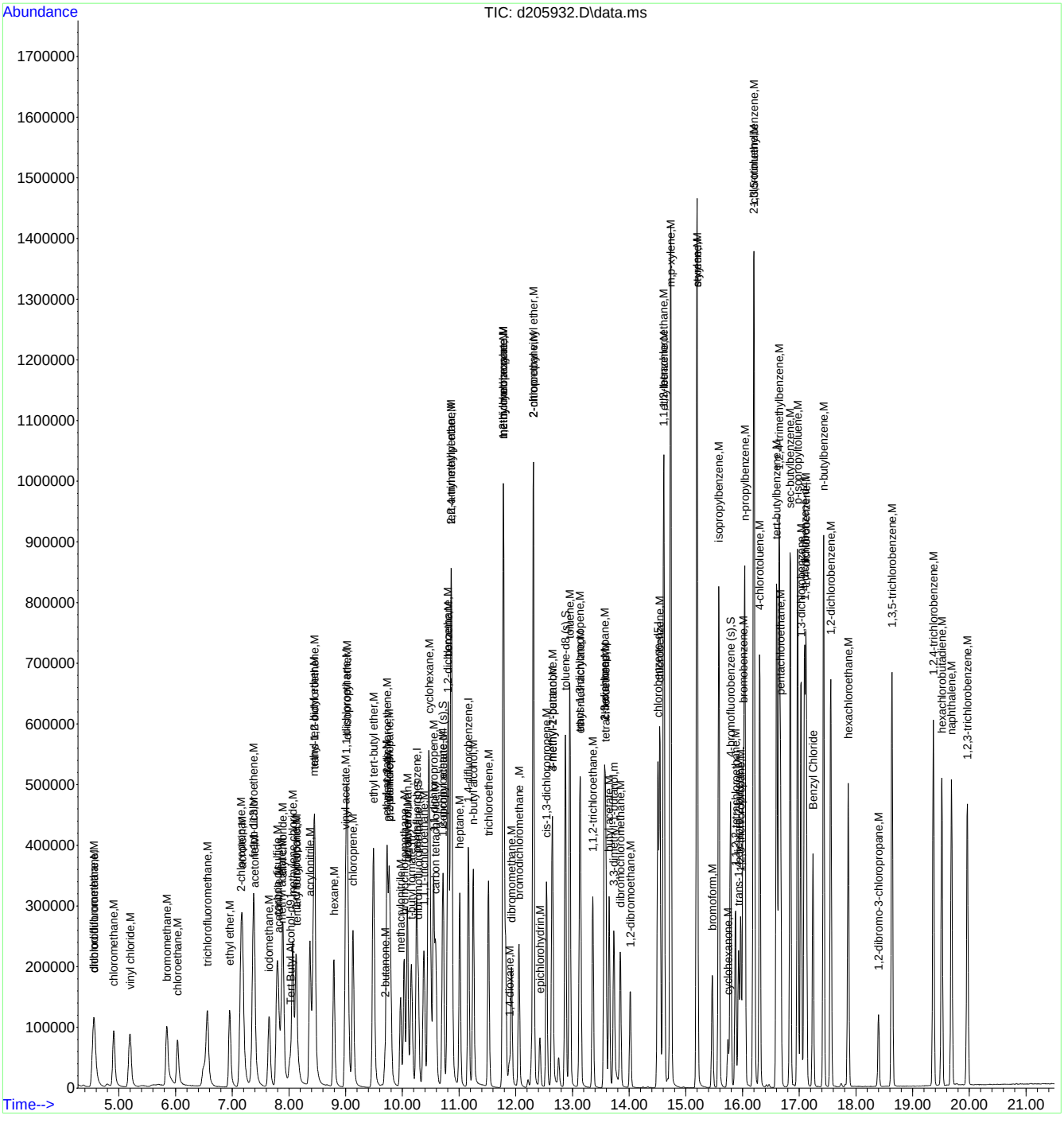
7.4.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205932.D
Acq On : 27 Feb 2013 2:54 pm
Operator : EmilyT
Sample : jb29173-8msd
Misc : ms43545,vd8401,4.7,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 16:13:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182055.D
Acq On : 6 Mar 2013 9:03 pm
Operator : SCOTTM
Sample : JB29330-1ms
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 06 21:26:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	64993	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	204181	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	284395	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	232007	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	137452	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.508	113	77137	51.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.72%			
47) 1,2-dichloroethane-d4...	9.931	65	70394	49.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.40%			
76) toluene-d8 (s)	12.039	98	290863	53.48	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.96%			
91) 4-bromofluorobenzene (s)	14.712	95	103816	51.49	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 102.98%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.327	59	33139	224.10	ug/L	94
3) iso-butyl alcohol	10.005	74	19214	468.69	ug/L #	41
4) 1,4-dioxane	11.108	88	14448	1220.65	ug/L #	98
6) chlorodifluoromethane	3.786	51	62514	37.38	ug/L	99
7) dichlorodifluoromethane	3.765	85	88503	36.71	ug/L	99
8) chloromethane	4.115	50	84447	37.70	ug/L	97
9) vinyl chloride	4.366	62	85700	37.80	ug/L	99
10) bromomethane	5.010	94	56971	38.91	ug/L	98
11) chloroethane	5.198	64	37661	36.57	ug/L	99
12) trichlorofluoromethane	5.637	101	103595	39.52	ug/L	98
13) ethyl ether	6.087	74	28725	40.97	ug/L	95
14) acrolein	6.328	56	54226	276.93	ug/L	98
15) freon 113	6.479	151	44086	43.36	ug/L	100
16) 1,1-dichloroethene	6.495	61	82177	40.41	ug/L	97
17) acetone	6.558	58	3862	44.52	ug/L	97
18) iodomethane	6.772	142	110912	40.29	ug/L #	99
19) carbon disulfide	6.893	76	196670	39.00	ug/L	99
20) methyl acetate	7.034	74	9266	58.29	ug/L #	90
21) allyl chloride	7.039	76	31907	38.77	ug/L	98
22) acetonitrile	7.039	41	131263	412.60	ug/L	98
23) methylene chloride	7.233	84	65520	37.83	ug/L	99
24) methyl tert butyl ether	7.573	73	163749	41.79	ug/L	99
25) acrylonitrile	7.562	53	71689	218.04	ug/L	100
26) trans-1,2-dichloroethene	7.614	96	60959	36.17	ug/L	98
27) hexane	7.923	57	49849	34.37	ug/L	99
28) di-isopropyl ether	8.184	45	175652	40.34	ug/L #	67
29) vinyl acetate	8.190	65	33550	39.92	ug/L	94
30) 1,1-dichloroethane	8.184	63	103859	40.65	ug/L	100
31) chloroprene	8.300	53	75459	39.67	ug/L	99
32) ethyl tert-butyl ether	8.655	59	189089	42.41	ug/L	99
33) 2-butanone	8.906	72	5285	45.10	ug/L #	94
34) ethyl acetate	8.932	45	5080	38.04	ug/L	96
35) 2,2-dichloropropane	8.932	77	87700	37.78	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182055.D
Acq On : 6 Mar 2013 9:03 pm
Operator : SCOTTM
Sample : JB29330-1ms
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 06 21:26:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.932	96	66606	37.97	ug/L		98
37) methacrylonitrile	9.189	67	17313	40.77	ug/L		96
38) propionitrile	9.000	54	57640	459.78	ug/L		98
39) bromochloromethane	9.246	128	30822	40.47	ug/L		90
40) tetrahydrofuran	9.288	42	12860	35.91	ug/L		89
41) chloroform	9.309	83	109044	39.47	ug/L		99
42) tert-Butyl Formate	9.346	59	8184	7.19	ug/L	#	99
44) 1,1,1-trichloroethane	9.560	97	97979	41.09	ug/L		99
45) cyclohexane	9.633	84	84057	40.02	ug/L		97
48) 1,1-dichloropropene	9.743	75	76937	38.08	ug/L		99
49) carbon tetrachloride	9.764	117	84174	41.03	ug/L		94
50) isopropyl acetate	9.937	61	17339	40.03	ug/L		97
51) benzene	10.005	78	241549	38.64	ug/L		99
52) 2,2,4-trimethylpentane	10.010	57	168622	34.08	ug/L		99
53) tert-amyl methyl ether	10.046	73	178327	41.22	ug/L		99
54) 1,2-dichloroethane	10.020	62	69197	40.51	ug/L		98
55) heptane	10.193	57	31986	31.22	ug/L		99
56) n-butyl alcohol	10.517	56	67003	2475.29	ug/L		99
57) trichloroethene	10.726	95	61650	38.74	ug/L		98
59) methyl methacrylate	11.004	69	34992	47.52	ug/L		98
60) 1,2-dichloropropane	10.993	63	57065	39.26	ug/L		98
61) methylcyclohexane	10.946	83	89638	38.18	ug/L		98
62) dibromomethane	11.150	93	33680	40.90	ug/L		96
63) bromodichloromethane	11.286	83	77485	39.61	ug/L		96
64) 2-nitropropane	11.500	41	15205	44.35	ug/L	#	1
65) 2-chloroethyl vinyl ether	11.532	63	83451	239.41	ug/L		100
66) epichlorohydrin	11.647	57	18642	211.15	ug/L		99
67) cis-1,3-dichloropropene	11.746	75	87552	37.66	ug/L		95
68) 4-methyl-2-pentanone	11.840	58	16432	44.46	ug/L		96
69) 3-methyl-1-butanol	11.867	70	23856	932.91	ug/L		97
70) toluene	12.107	91	251860	38.62	ug/L		100
71) trans-1,3-dichloropropene	12.311	75	75424	37.54	ug/L		93
72) ethyl methacrylate	12.306	69	46779	33.39	ug/L		99
73) 1,1,2-trichloroethane	12.526	83	38503	39.85	ug/L		99
74) 2-hexanone	12.698	58	13903	44.59	ug/L		98
77) tetrachloroethene	12.698	166	77677	43.05	ug/L		98
78) 1,3-dichloropropane	12.703	76	67698	38.46	ug/L		98
79) butyl acetate	12.777	56	15051	24.43	ug/L		97
80) 3,3-Dimethyl-1-Butanol	12.871	57	39376	415.90	ug/L		99
81) dibromochloromethane	12.970	129	57115	38.18	ug/L		100
82) 1,2-dibromoethane	13.117	107	46671	38.75	ug/L		100
83) chlorobenzene	13.582	112	150089	35.30	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.645	131	57496	36.88	ug/L		99
85) ethylbenzene	13.640	91	258712	35.41	ug/L		99
86) m,p-xylene	13.749	106	197849	70.87	ug/L		98
87) o-xylene	14.168	106	97273	35.60	ug/L		99
88) styrene	14.178	104	157613	33.95	ug/L		97
89) bromoform	14.440	173	39024	40.61	ug/L		98
92) isopropylbenzene	14.508	105	249938	33.33	ug/L		98
93) cyclohexanone	14.670	55	13354	468.44	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182055.D
Acq On : 6 Mar 2013 9:03 pm
Operator : SCOTTM
Sample : JB29330-1ms
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 06 21:26:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	57011	36.25 ug/L	97
95) trans-1,4-dichloro-2-b...	14.864	53	13379	36.70 ug/L	94
96) 1,2,3-trichloropropane	14.895	110	13108	39.45 ug/L	98
97) n-propylbenzene	14.926	91	280385	31.86 ug/L	100
98) bromobenzene	14.911	156	68616	32.85 ug/L	99
99) 2-chlorotoluene	15.073	126	59357	31.01 ug/L	97
100) 4-chlorotoluene	15.172	91	168893	30.76 ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	205884	30.98 ug/L	99
102) tert-butylbenzene	15.439	119	179073	32.25 ug/L	100
103) pentachloroethane	15.523	167	33475	25.60 ug/L	99
104) 1,2,4-trimethylbenzene	15.486	105	205552	30.07 ug/L	97
105) sec-butylbenzene	15.664	105	265208	31.11 ug/L	99
106) p-isopropyltoluene	15.789	119	214380	30.23 ug/l	100
107) benzyl chloride	16.061	91	89532	29.48 ug/L	99
108) 1,3-dichlorobenzene	15.852	146	116211	28.13 ug/L	99
109) 1,4-dichlorobenzene	15.941	146	117866	28.08 ug/L	99
110) 1,2-dichlorobenzene	16.354	146	114503	29.67 ug/L	99
111) n-butylbenzene	16.223	92	101542	27.85 ug/L	98
112) hexachloroethane	16.631	119	43108	30.66 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.175	157	12195	36.99 ug/L	98
114) 1,3,5-Trichlorobenzene	17.374	180	72038	21.61 ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	58581	21.23 ug/L	99
116) hexachlorobutadiene	18.164	225	39737	20.98 ug/L	97
117) naphthalene	18.321	128	146349	29.81 ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	53828	22.34 ug/L	98

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

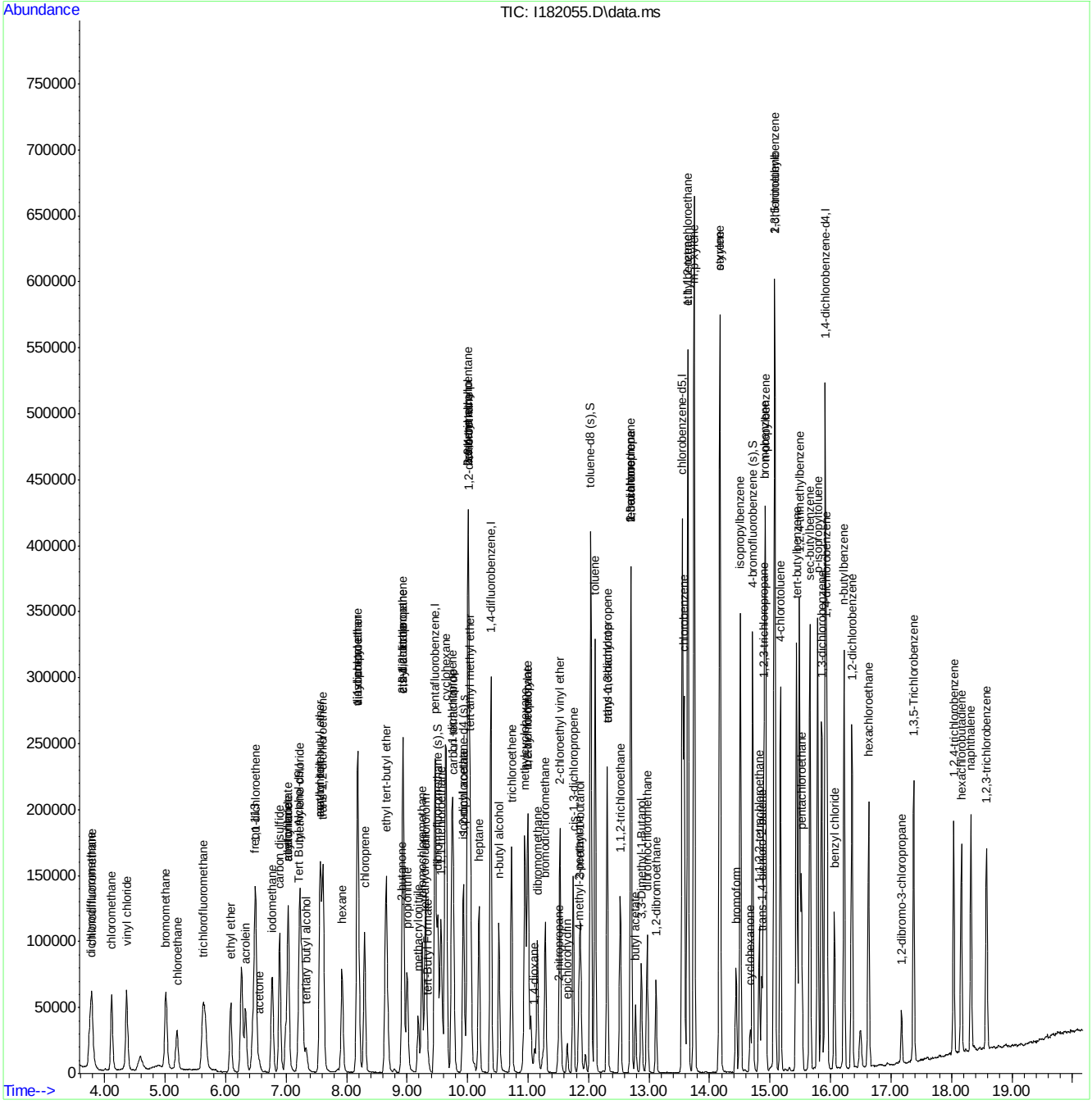
7.4.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182055.D
Acq On : 6 Mar 2013 9:03 pm
Operator : SCOTTM
Sample : JB29330-1ms
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 06 21:26:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182056.D
Acq On : 6 Mar 2013 9:32 pm
Operator : SCOTTM
Sample : JB29330-1msd
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 21:55:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	61477	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	209914	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.387	114	293987	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	246045	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	142106	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.508	113	78695	50.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.92%			
47) 1,2-dichloroethane-d4...	9.931	65	70756	47.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 95.68%			
76) toluene-d8 (s)	12.039	98	304096	52.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.44%			
91) 4-bromofluorobenzene (s)	14.712	95	108080	51.85	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.70%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.327	59	29594	211.57	ug/L	96
3) iso-butyl alcohol	10.005	74	18608	479.86	ug/L #	36
4) 1,4-dioxane	11.108	88	14172	1265.81	ug/L #	96
6) chlorodifluoromethane	3.796	51	57346	33.36	ug/L	98
7) dichlorodifluoromethane	3.776	85	82450	33.27	ug/L	98
8) chloromethane	4.121	50	81268	35.29	ug/L	96
9) vinyl chloride	4.372	62	82271	35.29	ug/L	99
10) bromomethane	5.020	94	55872	37.12	ug/L	97
11) chloroethane	5.203	64	36566	34.54	ug/L	99
12) trichlorofluoromethane	5.648	101	97679	36.25	ug/L	98
13) ethyl ether	6.087	74	26667	36.99	ug/L	97
14) acrolein	6.338	56	48738	242.11	ug/L	98
15) freon 113	6.485	151	41772	39.96	ug/L	100
16) 1,1-dichloroethene	6.500	61	80486	38.50	ug/L	98
17) acetone	6.558	58	3584	40.19	ug/L	94
18) iodomethane	6.778	142	106866	37.76	ug/L #	100
19) carbon disulfide	6.898	76	189222	36.50	ug/L	99
20) methyl acetate	7.039	74	8613	52.70	ug/L #	89
21) allyl chloride	7.039	76	31262	36.95	ug/L	92
22) acetonitrile	7.039	41	124230	379.83	ug/L	99
23) methylene chloride	7.238	84	63705	35.45	ug/L	98
24) methyl tert butyl ether	7.578	73	152801	37.93	ug/L	99
25) acrylonitrile	7.562	53	65357	193.36	ug/L	100
26) trans-1,2-dichloroethene	7.614	96	58506	33.76	ug/L	97
27) hexane	7.928	57	46724	31.02	ug/L	99
28) di-isopropyl ether	8.185	45	170919	38.18	ug/L #	64
29) vinyl acetate	8.190	65	32110	37.16	ug/L #	91
30) 1,1-dichloroethane	8.190	63	99265	37.79	ug/L	100
31) chloroprene	8.300	53	71373	36.50	ug/L	99
32) ethyl tert-butyl ether	8.655	59	181024	39.50	ug/L	99
33) 2-butanone	8.912	72	4636	38.48	ug/L #	94
34) ethyl acetate	8.933	45	4533	33.02	ug/L	85
35) 2,2-dichloropropane	8.938	77	84336	35.34	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182056.D
Acq On : 6 Mar 2013 9:32 pm
Operator : SCOTTM
Sample : JB29330-1msd
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 21:55:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	64271	35.64 ug/L	96
37) methacrylonitrile	9.189	67	15866	36.34 ug/L	95
38) propionitrile	9.001	54	51846	402.27 ug/L	94
39) bromochloromethane	9.252	128	29189	37.28 ug/L	96
40) tetrahydrofuran	9.293	42	11468	31.14 ug/L	90
41) chloroform	9.309	83	103474	36.43 ug/L	99
42) tert-Butyl Formate	9.356	59	6112	5.22 ug/L #	96
44) 1,1,1-trichloroethane	9.560	97	93186	38.01 ug/L	99
45) cyclohexane	9.639	84	80203	37.14 ug/L	81
48) 1,1-dichloropropene	9.743	75	73739	35.31 ug/L	99
49) carbon tetrachloride	9.764	117	80596	38.01 ug/L	93
50) isopropyl acetate	9.942	61	15765	35.21 ug/L	98
51) benzene	10.005	78	233188	36.08 ug/L	99
52) 2,2,4-trimethylpentane	10.010	57	160798	31.44 ug/L	99
53) tert-amyl methyl ether	10.047	73	167792	37.52 ug/L	99
54) 1,2-dichloroethane	10.020	62	64651	36.62 ug/L	99
55) heptane	10.188	57	29607	27.96 ug/L	99
56) n-butyl alcohol	10.517	56	60163	2150.08 ug/L	98
57) trichloroethene	10.727	95	58926	35.82 ug/L	99
59) methyl methacrylate	11.004	69	32311	42.45 ug/L	98
60) 1,2-dichloropropane	10.993	63	54164	36.05 ug/L	98
61) methylcyclohexane	10.951	83	85404	35.19 ug/L	96
62) dibromomethane	11.155	93	31402	36.89 ug/L	97
63) bromodichloromethane	11.286	83	73440	36.32 ug/L	97
64) 2-nitropropane	11.506	41	13055	36.84 ug/L #	1
65) 2-chloroethyl vinyl ether	11.532	63	74217	205.97 ug/L	100
66) epichlorohydrin	11.652	57	16714	183.14 ug/L	99
67) cis-1,3-dichloropropene	11.746	75	84372	35.11 ug/L	98
68) 4-methyl-2-pentanone	11.846	58	14835	38.83 ug/L	95
69) 3-methyl-1-butanol	11.867	70	21740	823.17 ug/L	97
70) toluene	12.113	91	244736	36.31 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	71416	34.38 ug/L	93
72) ethyl methacrylate	12.311	69	42789	29.55 ug/L	99
73) 1,1,2-trichloroethane	12.526	83	36583	36.63 ug/L	98
74) 2-hexanone	12.698	58	12903	40.03 ug/L	96
77) tetrachloroethene	12.698	166	75853	39.64 ug/L	97
78) 1,3-dichloropropane	12.704	76	63850	34.21 ug/L	98
79) butyl acetate	12.782	56	13764	21.07 ug/L	92
80) 3,3-Dimethyl-1-Butanol	12.871	57	35743	355.99 ug/L	99
81) dibromochloromethane	12.970	129	53529	33.74 ug/L	99
82) 1,2-dibromoethane	13.117	107	44173	34.59 ug/L	99
83) chlorobenzene	13.582	112	145874	32.35 ug/L	98
84) 1,1,1,2-tetrachloroethane	13.645	131	55327	33.46 ug/L	99
85) ethylbenzene	13.640	91	252984	32.65 ug/L	100
86) m,p-xylene	13.750	106	196310	66.31 ug/L	98
87) o-xylene	14.168	106	95678	33.02 ug/L	99
88) styrene	14.178	104	154446	31.37 ug/L	98
89) bromoform	14.440	173	36483	35.80 ug/L	95
92) isopropylbenzene	14.508	105	246165	31.75 ug/L	98
93) cyclohexanone	14.670	55	12746	432.47 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182056.D
Acq On : 6 Mar 2013 9:32 pm
Operator : SCOTTM
Sample : JB29330-1msd
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 21:55:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	53651	33.00 ug/L	98
95) trans-1,4-dichloro-2-b...	14.864	53	11900	31.58 ug/L	96
96) 1,2,3-trichloropropane	14.895	110	12196	35.50 ug/L	98
97) n-propylbenzene	14.926	91	279261	30.69 ug/L	99
98) bromobenzene	14.911	156	67471	31.24 ug/L	99
99) 2-chlorotoluene	15.073	126	59125	29.88 ug/L	100
100) 4-chlorotoluene	15.172	91	168414	29.67 ug/L	98
101) 1,3,5-trimethylbenzene	15.078	105	205472	29.91 ug/L	97
102) tert-butylbenzene	15.439	119	173002	30.13 ug/L	100
103) pentachloroethane	15.523	167	32645	24.15 ug/L	98
104) 1,2,4-trimethylbenzene	15.486	105	202888	28.71 ug/L	96
105) sec-butylbenzene	15.664	105	260553	29.57 ug/L	99
106) p-isopropyltoluene	15.789	119	213292	29.09 ug/l	99
107) benzyl chloride	16.061	91	82604	26.31 ug/L	99
108) 1,3-dichlorobenzene	15.852	146	118160	27.67 ug/L	99
109) 1,4-dichlorobenzene	15.941	146	117685	27.12 ug/L	99
110) 1,2-dichlorobenzene	16.354	146	112173	28.11 ug/L	99
111) n-butylbenzene	16.223	92	102725	27.25 ug/L	99
112) hexachloroethane	16.631	119	41636	28.65 ug/L	96
113) 1,2-dibromo-3-chloropr...	17.175	157	10937	32.09 ug/L	97
114) 1,3,5-Trichlorobenzene	17.374	180	73838	21.42 ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	60031	21.04 ug/L	99
116) hexachlorobutadiene	18.164	225	38396	19.61 ug/L	98
117) naphthalene	18.321	128	140233	27.63 ug/L	100
118) 1,2,3-trichlorobenzene	18.582	180	52530	21.08 ug/L	99

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

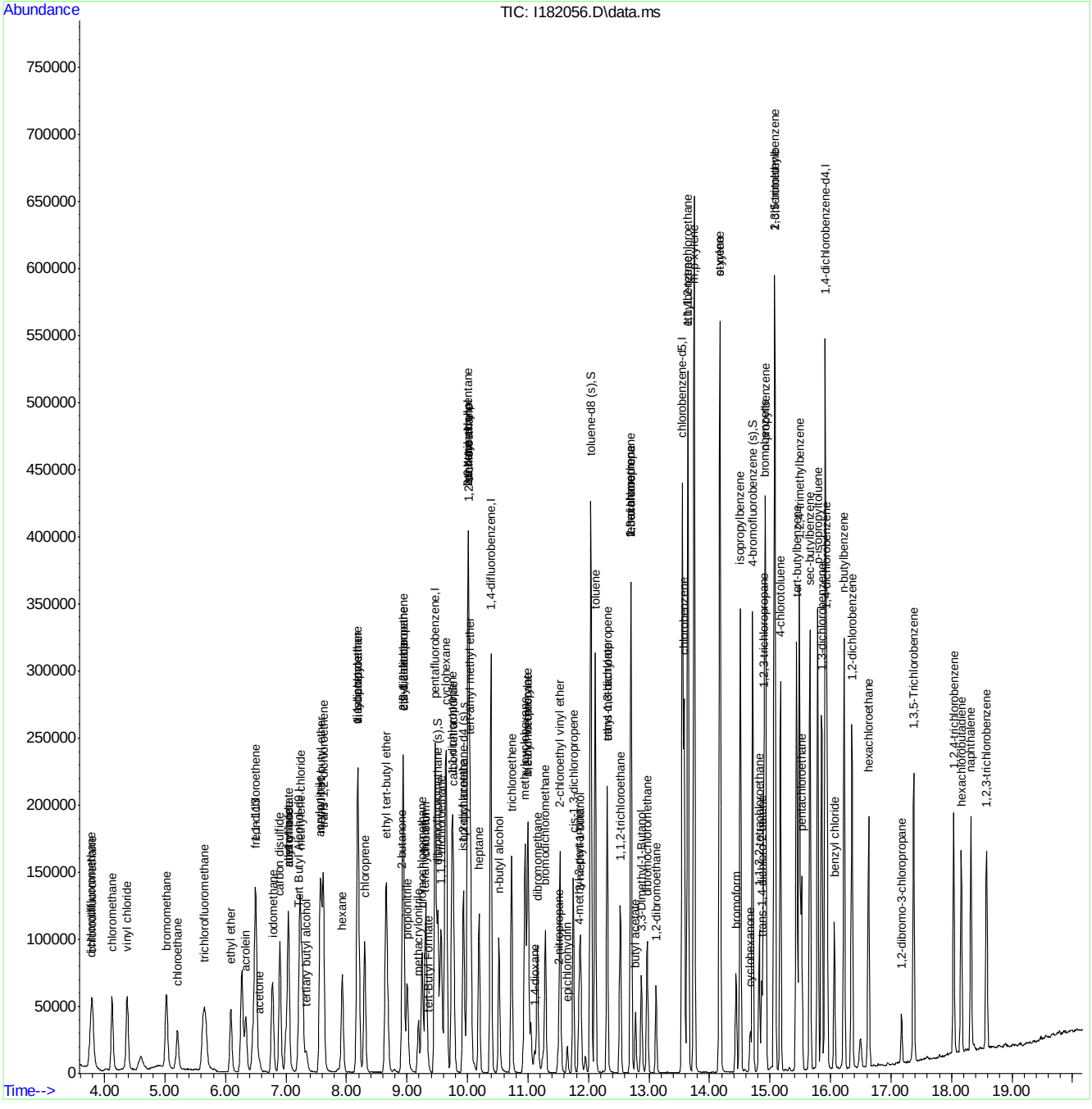
7.4.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182056.D
Acq On : 6 Mar 2013 9:32 pm
Operator : SCOTTM
Sample : JB29330-1msd
Misc : MS43692,VI7353,5.7,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 06 21:55:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133454.D
Acq On : 25 Feb 2013 8:18 pm
Operator : DIPAP
Sample : jb29216-1dup
Misc : MS43620,VO5887,5.2,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 11:49:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

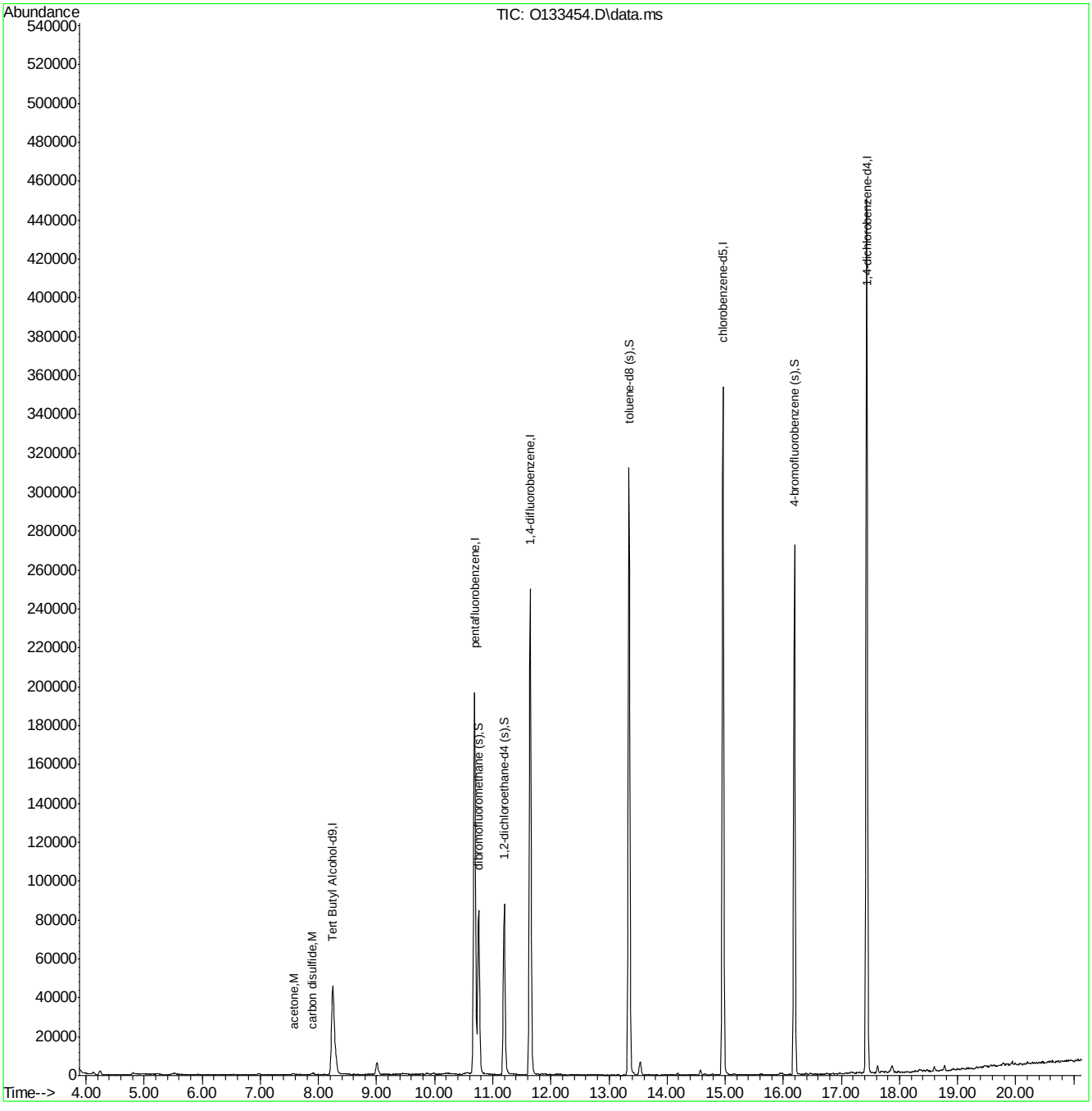
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.244	65	94050	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	186190	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	257372	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	246468	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	147334	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.760	113	61318	48.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.40%			
45) 1,2-dichloroethane-d4 (s)	11.199	65	72787	53.90	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 107.80%			
74) toluene-d8 (s)	13.344	98	255616	52.88	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.76%			
99) 4-bromofluorobenzene (s)	16.189	95	99173	51.59	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.18%			
Target Compounds						Qvalue
18) acetone	7.575	43	1537	3.92	ug/L	96
23) carbon disulfide	7.899	76	1665	0.42	ug/L	87

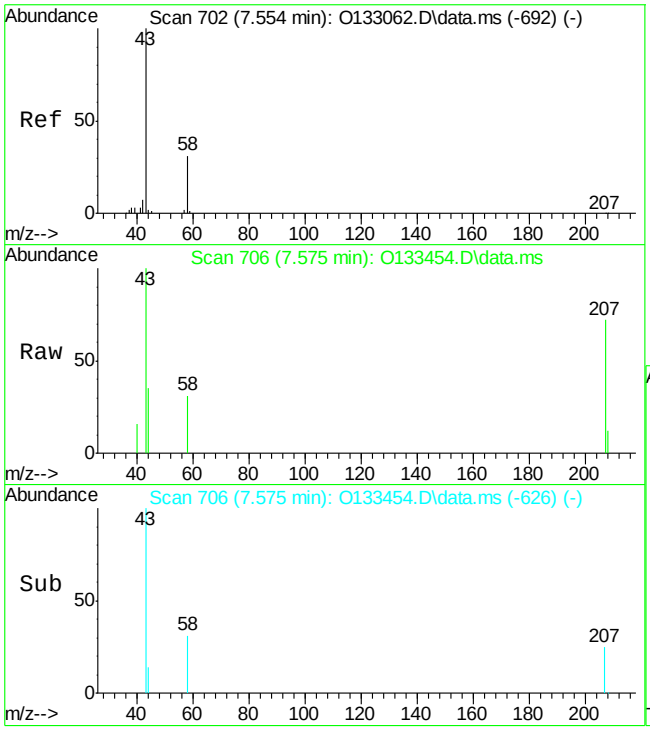
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133454.D
Acq On : 25 Feb 2013 8:18 pm
Operator : DIPAP
Sample : jb29216-1dup
Misc : MS43620,VO5887,5.2,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 11:49:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

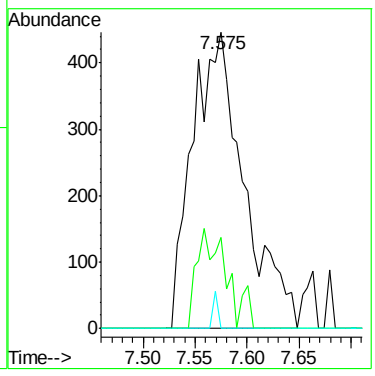


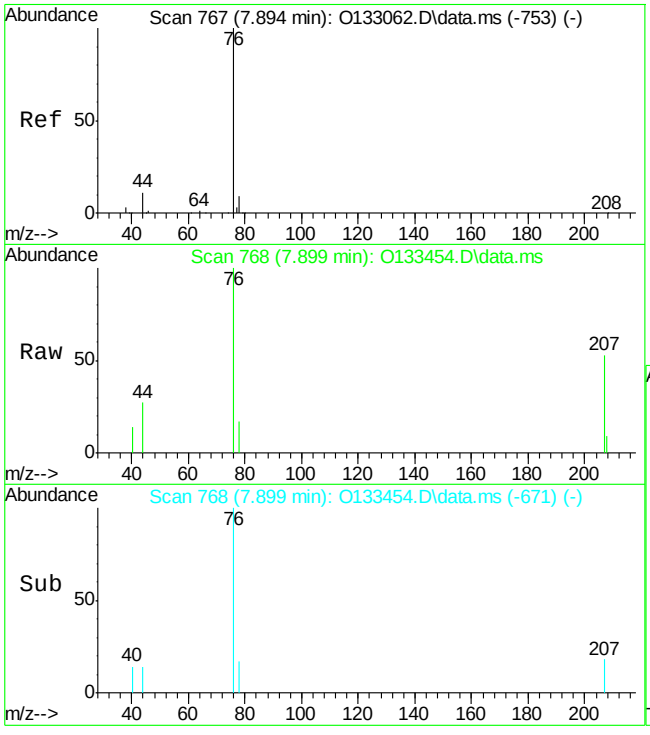


#18
acetone
Concen: 3.92 ug/L
RT: 7.575 min Scan# 706
Delta R.T. 0.021 min
Lab File: O133454.D
Acq: 25 Feb 2013 8:18 pm

Tgt Ion: 43 Resp: 1537

Ion	Ratio	Lower	Upper
43	100		
58	30.9	1.5	61.5
42	0.0	0.0	36.7

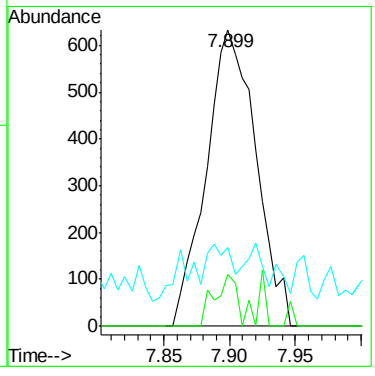




#23
carbon disulfide
Concen: 0.42 ug/L
RT: 7.899 min Scan# 768
Delta R.T. 0.005 min
Lab File: O133454.D
Acq: 25 Feb 2013 8:18 pm

Tgt Ion: 76 Resp: 1665

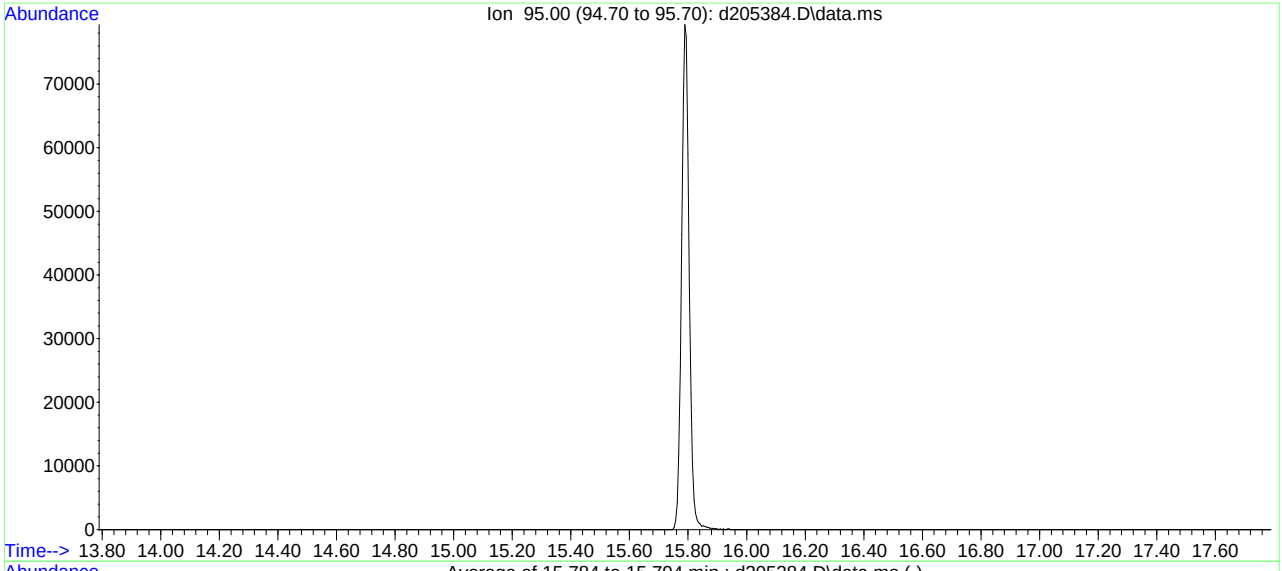
Ion	Ratio	Lower	Upper
76	100		
78	17.4	0.0	39.4
44	12.8	0.0	40.7

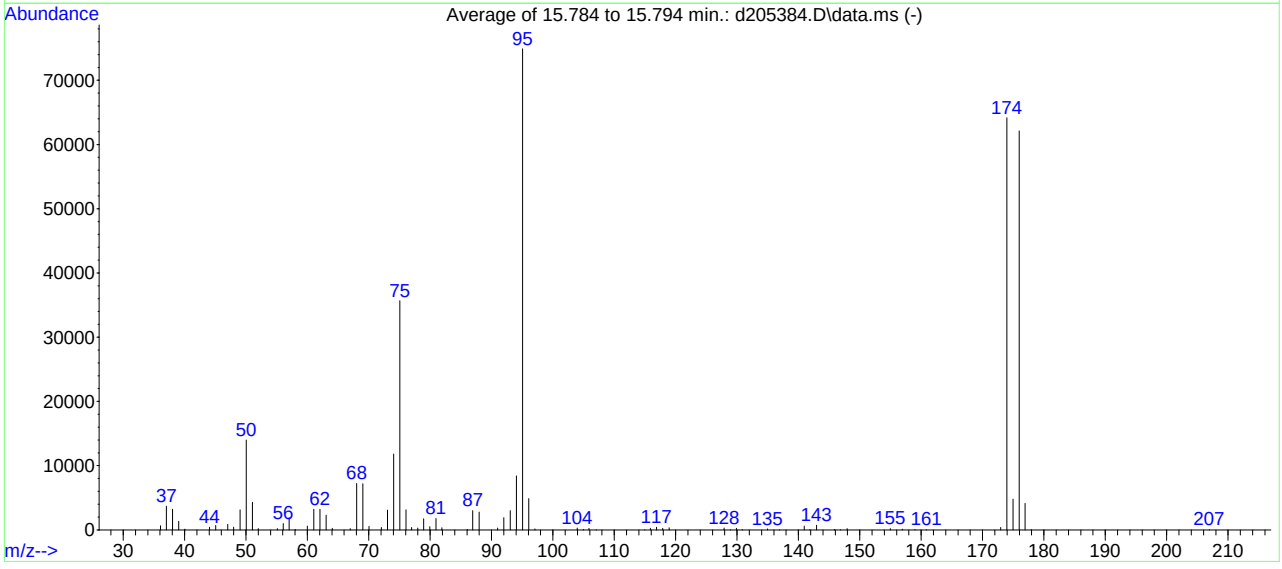


SW-846 Method 8260

Data File : C:\msdchem\1\DATA\d205384.D Vial: 1
Acq On : 11 Feb 2013 8:00 pm Operator: EmilyT
Sample : bfb Inst : MSD
Misc : ms42807,vd8379,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title : SW-846 Method 8260B





AutoFind: Scans 2202, 2203, 2204; Background Corrected with Scan 2193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	13978	PASS
75	95	30	60	47.6	35656	PASS
95	95	100	100	100.0	74890	PASS
96	95	5	9	6.5	4864	PASS
173	174	0.00	2	0.5	353	PASS
174	95	50	120	85.7	64189	PASS
175	174	5	9	7.5	4784	PASS
176	174	95	101	96.8	62130	PASS
177	176	5	9	6.6	4120	PASS

d205384.D MD8379.M Tue Feb 12 07:56:43 2013

Average of 15.784 to 15.794 min.: d205384.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	631	51.05	4313	67.00	192	78.95	1707
37.05	3684	52.00	192	68.05	7235	79.95	494
38.05	3192	55.10	199	69.05	7177	80.95	1751
39.05	1322	56.05	982	70.05	547	81.90	348
40.05	130	57.05	1916	72.05	363	86.05	82
44.05	410	58.05	74	73.05	3070	86.95	2989
45.05	657	60.00	615	74.05	11793	88.00	2793
47.05	863	61.05	3191	75.05	35656	91.00	274
48.00	436	62.05	3226	76.05	3143	92.00	1913
49.05	3126	63.05	2315	77.00	383	93.05	3009
50.05	13978	64.05	258	78.00	281	94.05	8381

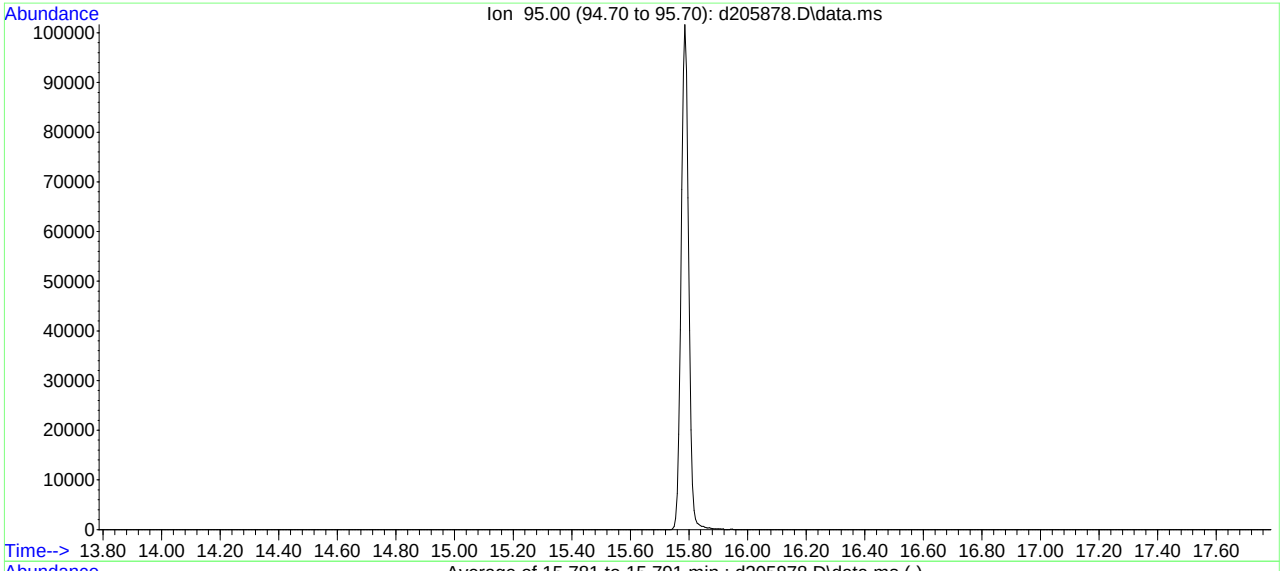
Average of 15.784 to 15.794 min.: d205384.D\data.ms
bfb
Modified:subtracted

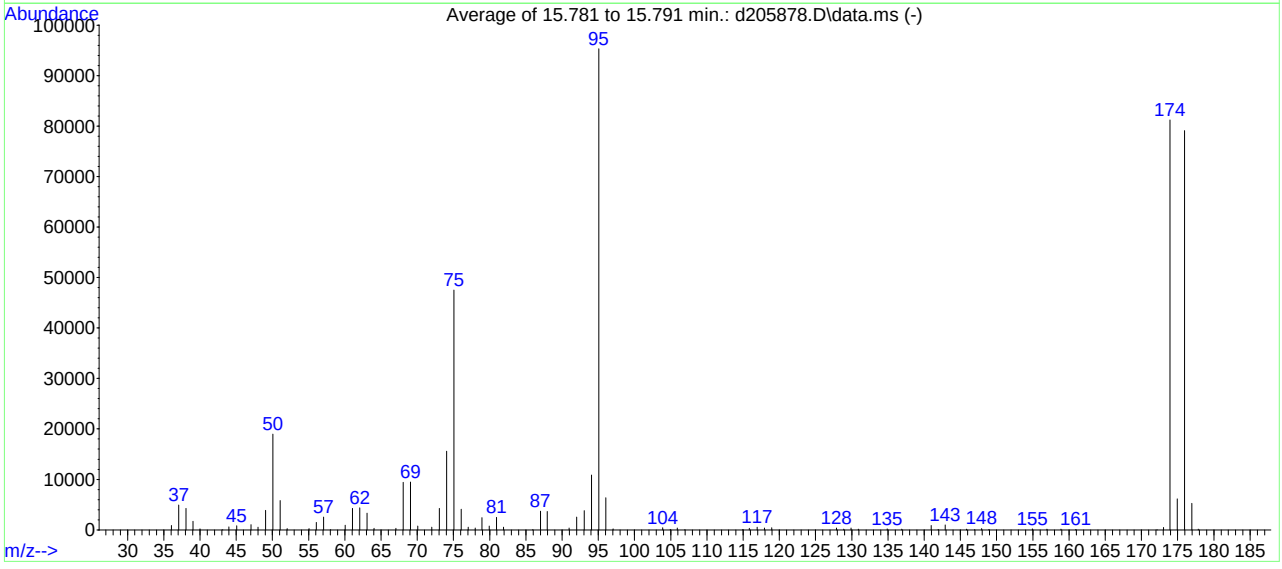
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	74890	118.95	335	146.85	38	177.95	46
96.05	4864	127.90	268	147.95	201	206.95	8
97.05	149	128.95	39	154.95	177		
103.95	294	129.90	256	156.95	134		
104.95	90	130.85	74	159.00	75		
105.90	254	134.95	153	160.85	36		
107.05	37	136.95	43	172.95	353		
114.95	36	140.95	613	173.95	64189		
115.90	227	141.85	35	174.95	4784		
116.90	409	142.95	702	175.95	62130		
117.90	233	145.90	75	176.95	4120		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\d205878.D Vial: 2
Acq On : 26 Feb 2013 9:45 am Operator: EmilyT
Sample : bfb Inst : MSD
Misc : ms43452,vd8399,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8379.M (RTE Integrator)
Title : SW-846 Method 8260B





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2191

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	18952	PASS
75	95	30	60	49.8	47520	PASS
95	95	100	100	100.0	95333	PASS
96	95	5	9	6.7	6370	PASS
173	174	0.00	2	0.6	475	PASS
174	95	50	120	85.2	81245	PASS
175	174	5	9	7.5	6131	PASS
176	174	95	101	97.4	79144	PASS
177	176	5	9	6.6	5250	PASS

d205878.D MD8379.M Tue Feb 26 16:58:54 2013

Average of 15.781 to 15.791 min.: d205878.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	875	50.05	18952	64.05	298	78.00	391
37.05	4931	51.05	5807	67.05	284	78.95	2443
38.05	4224	52.05	247	68.05	9402	79.95	772
39.05	1709	55.05	254	69.05	9450	80.95	2487
40.00	189	56.05	1456	70.05	766	81.90	522
43.15	50	57.05	2538	72.00	534	85.95	42
44.00	584	58.05	37	73.05	4247	87.00	3671
45.05	823	60.05	894	74.05	15611	87.95	3646
47.05	1039	61.05	4247	75.05	47520	90.95	364
48.00	543	62.05	4373	76.05	4089	92.00	2505
49.05	3844	63.05	3316	77.05	557	93.05	3797

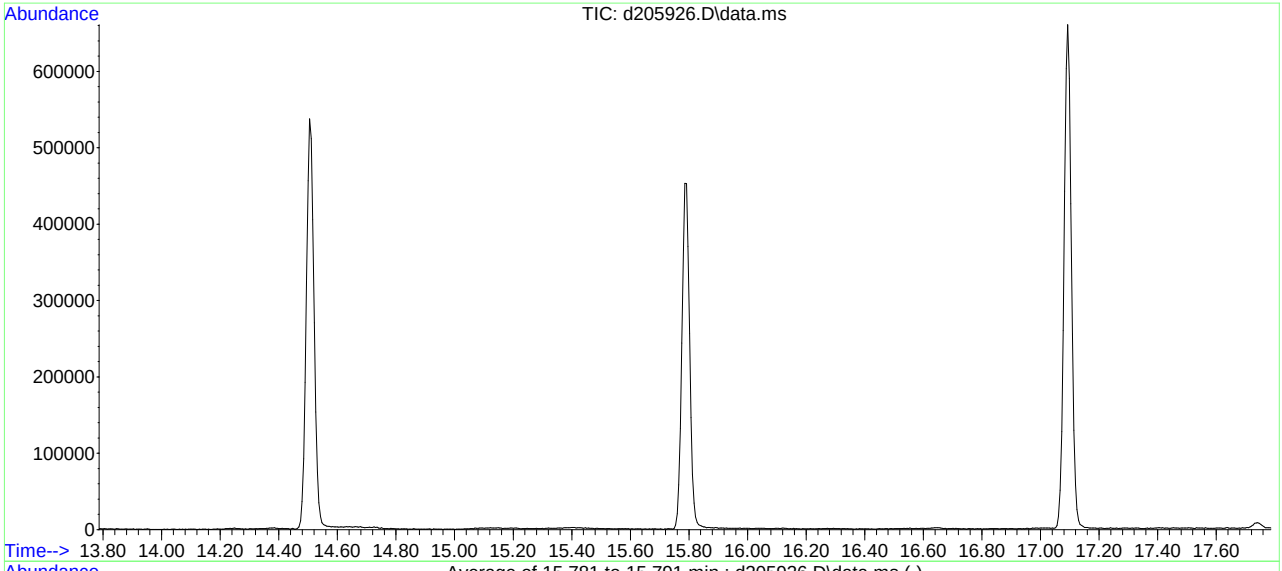
Average of 15.781 to 15.791 min.: d205878.D\data.ms
bfb
Modified:subtracted

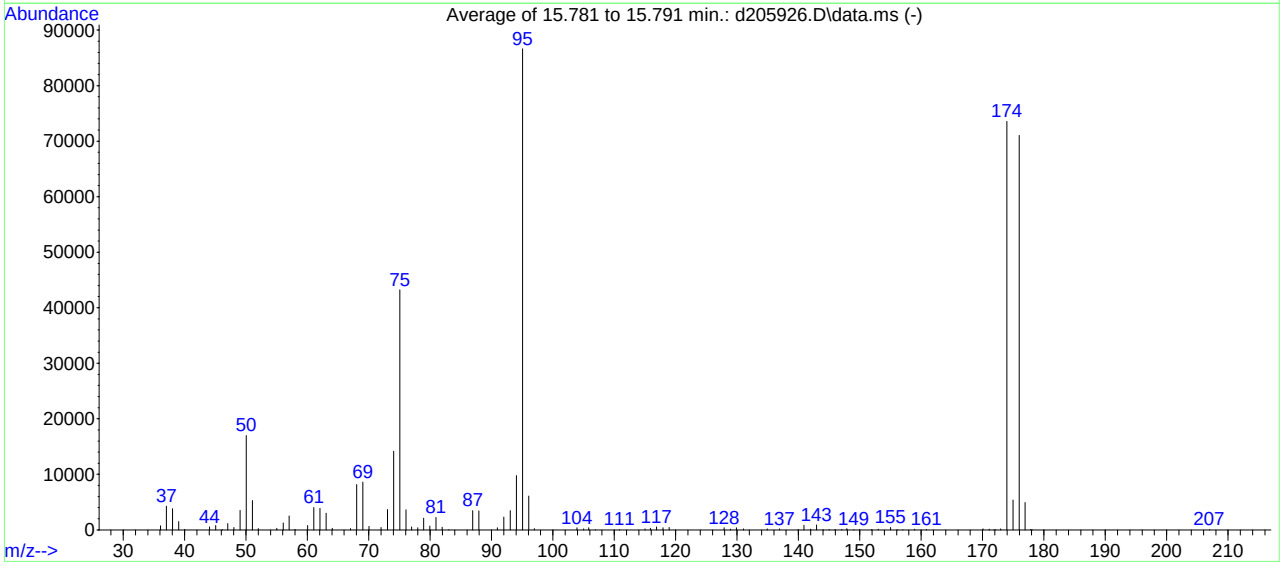
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	10868	117.95	354	145.85	124	174.95	6131
95.05	95333	118.95	436	146.95	41	175.95	79144
96.05	6370	127.90	362	147.95	253	176.95	5250
97.05	215	128.90	171	148.95	70	177.85	150
103.90	446	129.90	339	154.95	213		
104.95	80	130.90	168	156.95	157		
105.90	343	134.90	180	158.90	124		
106.95	36	136.90	163	160.95	84		
114.95	97	140.95	874	172.15	54		
115.85	327	141.95	102	173.05	475		
116.95	559	142.90	988	173.95	81245		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\d205926.D Vial: 1
Acq On : 27 Feb 2013 11:51 am Operator: EmilyT
Sample : bfb Inst : MSD
Misc : ms43545,vd8401,5,,100,5,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MD8248.M (RTE Integrator)
Title : SW-846 Method 8260B





AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	16966	PASS
75	95	30	60	49.9	43248	PASS
95	95	100	100	100.0	86624	PASS
96	95	5	9	7.0	6081	PASS
173	174	0.00	2	0.3	197	PASS
174	95	50	120	84.9	73565	PASS
175	174	5	9	7.3	5394	PASS
176	174	95	101	96.6	71061	PASS
177	176	5	9	6.9	4910	PASS

d205926.D MD8248.M Wed Feb 27 16:09:18 2013

Average of 15.781 to 15.791 min.: d205926.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	747	50.05	16966	64.05	262	78.00	376
37.05	4285	51.05	5263	67.05	255	78.95	2123
38.05	3818	52.00	204	68.05	8136	79.95	679
39.05	1482	55.00	280	69.05	8621	80.95	2259
40.00	61	56.05	1256	70.05	618	81.95	498
44.05	521	57.05	2479	72.00	424	83.05	35
45.05	766	58.00	69	73.05	3650	86.95	3441
46.15	35	60.05	782	74.05	14164	87.95	3432
47.05	1117	61.05	4009	75.05	43248	90.95	373
48.05	409	62.05	3874	76.05	3595	92.00	2299
49.05	3518	63.05	3009	77.00	526	93.05	3441

Average of 15.781 to 15.791 min.: d205926.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	9789	116.90	537	142.00	149	155.00	420
95.05	86624	117.95	356	142.95	889	156.15	35
96.05	6081	118.95	417	144.05	36	157.00	38
97.00	229	127.90	393	145.00	98	158.95	132
103.90	385	128.95	107	145.95	102	160.85	90
105.00	191	129.90	367	147.05	96	170.10	196
105.85	370	131.05	161	147.90	243	171.10	130
106.95	38	134.90	168	149.05	35	171.85	39
110.85	33	136.95	170	149.95	35	172.15	35
115.00	157	139.95	39	151.95	91	172.95	197
115.90	266	140.90	841	153.00	130	173.95	73565

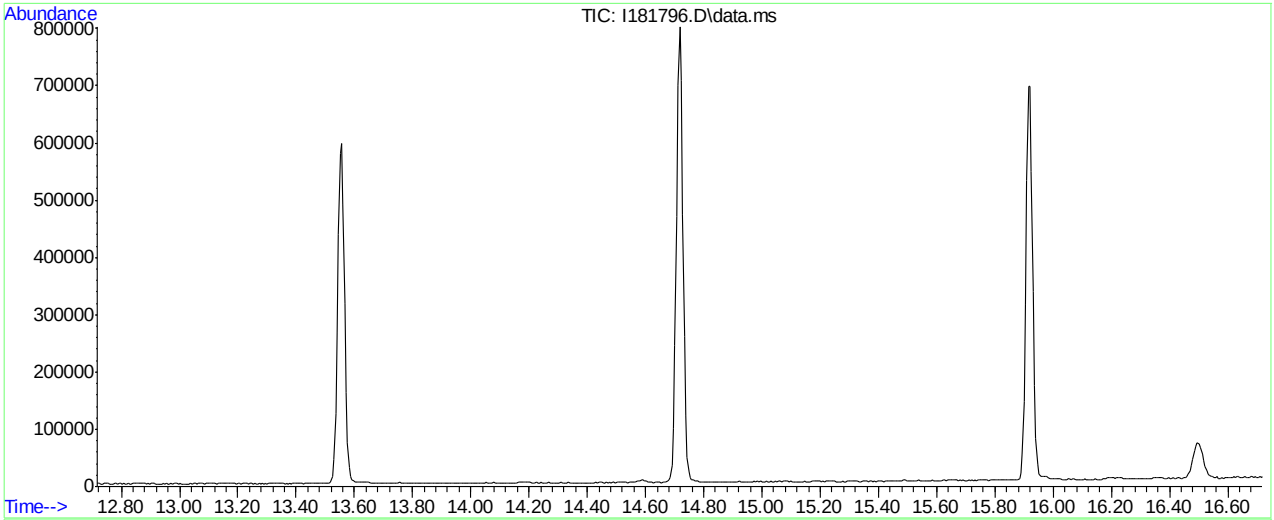
Average of 15.781 to 15.791 min.: d205926.D\data.ms
bfb
Modified:subtracted

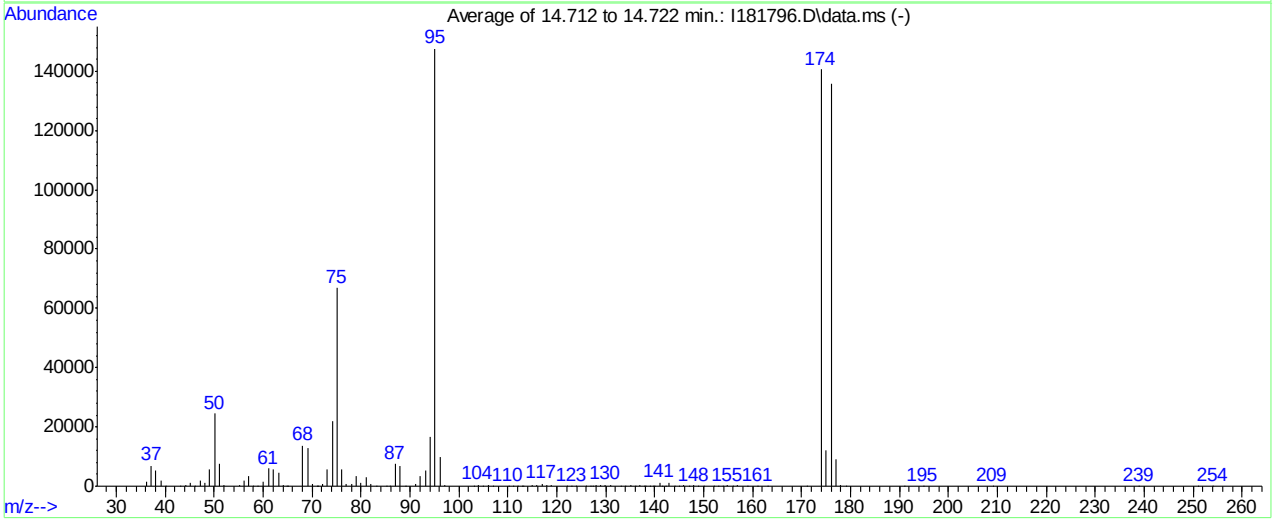
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.95	5394						
175.95	71061						
176.95	4910						
177.85	101						
178.05	45						
206.95	36						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7342\I181796.D Vial: 13
Acq On : 26 Feb 2013 4:48 pm Operator: SCOTTM
Sample : BFB Inst : MSI
Misc : MS43614,VI7342,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7342.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2128, 2129, 2130; Background Corrected with Scan 2118

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	24578	PASS
75	95	30	60	45.2	66755	PASS
95	95	100	100	100.0	147648	PASS
96	95	5	9	6.7	9915	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.3	140653	PASS
175	174	5	9	8.7	12281	PASS
176	174	95	101	96.6	135866	PASS
177	176	5	9	6.8	9216	PASS

I181796.D MI7342.M Wed Feb 27 11:20:27 2013 RPT1

Average of 14.712 to 14.722 min.: I181796.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1479	49.10	5865	62.10	5663	73.10	5688
37.10	6839	50.10	24578	63.10	4386	74.10	22050
38.10	5409	51.10	7501	64.05	416	75.05	66755
39.10	2070	52.05	387	64.90	41	76.10	5720
40.10	45	55.10	240	65.10	30	77.00	783
43.10	46	56.10	1735	68.10	13624	78.05	821
44.10	568	57.10	3494	69.10	12868	78.95	3406
45.10	1093	58.00	204	70.10	940	80.00	994
46.05	114	58.90	44	70.90	26	81.00	3186
47.10	1733	60.10	1338	71.15	59	81.95	650
48.05	976	61.10	5987	72.10	869	83.10	76

Average of 14.712 to 14.722 min.: I181796.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.10	34	97.05	317	115.00	210	127.95	462
85.90	148	102.95	135	115.95	460	128.95	245
87.00	7425	103.95	566	117.00	842	129.90	487
88.00	6997	104.95	142	117.95	456	130.95	257
89.10	25	105.95	508	118.95	554	133.05	110
91.05	595	107.00	143	122.00	26	134.00	34
92.00	3558	110.05	65	123.00	59	135.00	290
93.10	5463	110.95	107	123.90	66	136.00	25
94.10	16776	111.95	73	126.05	95	136.95	216
95.10	147648	112.80	65	126.95	74	137.80	27
96.10	9915	113.10	68	127.30	53	138.10	27

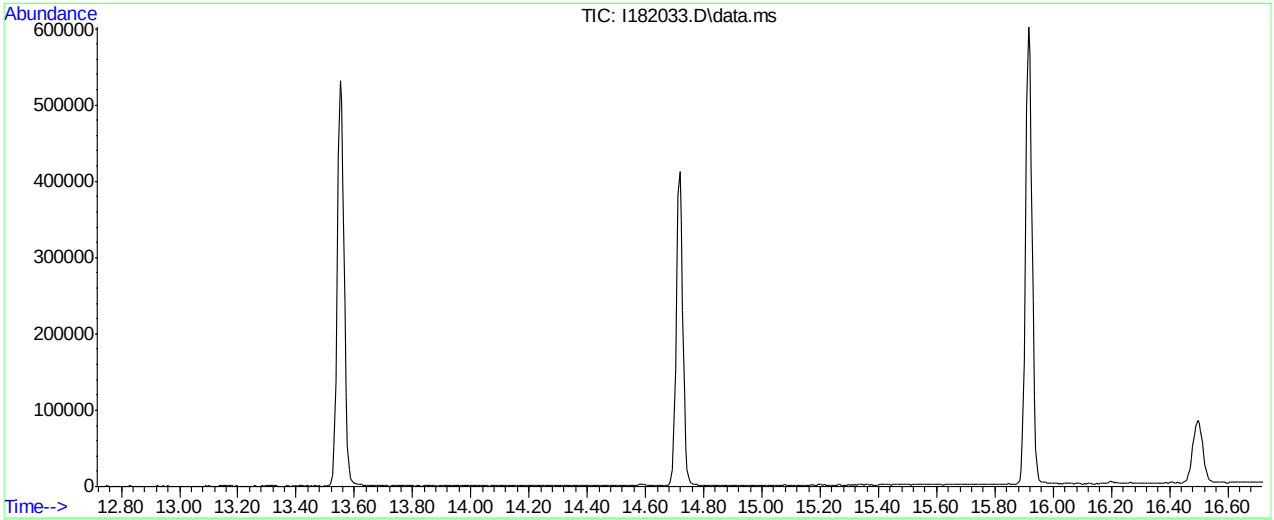
Average of 14.712 to 14.722 min.: I181796.D\data.ms
BFB
Modified:subtracted

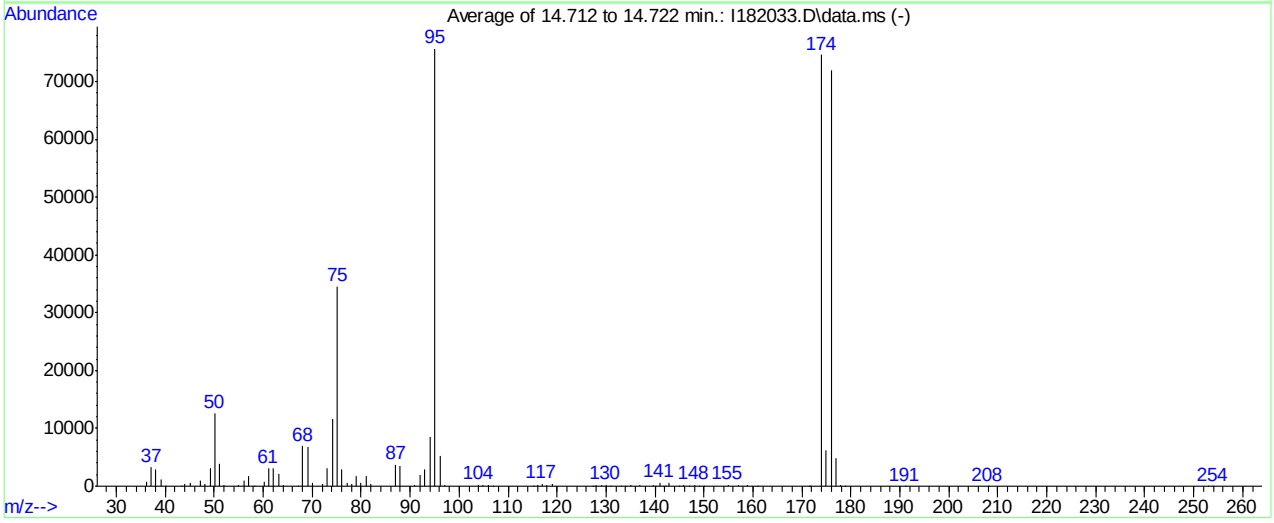
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.00	73	147.95	355	163.00	33	238.90	30
139.65	131	148.95	147	171.10	25	251.00	27
139.90	82	149.95	161	174.00	140653	254.05	40
140.95	1241	152.00	63	175.00	12281		
141.60	35	152.90	120	176.00	135866		
142.10	133	153.90	129	176.95	9216		
142.95	1183	154.90	355	177.95	308		
144.00	61	155.95	107	179.00	32		
145.00	68	156.95	273	190.95	8		
145.90	213	158.95	156	194.80	33		
147.00	94	161.05	184	209.00	10		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7353\I182033.D Vial: 3
Acq On : 6 Mar 2013 9:59 am Operator: SCOTTM
Sample : BFB Inst : MSI
Misc : MS44166,VI7353,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7342.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2128, 2129, 2130; Background Corrected with Scan 2119

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	12635	PASS
75	95	30	60	45.6	34525	PASS
95	95	100	100	100.0	75698	PASS
96	95	5	9	6.9	5201	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.6	74616	PASS
175	174	5	9	8.3	6197	PASS
176	174	95	101	96.4	71914	PASS
177	176	5	9	6.7	4785	PASS

I182033.D MI7342.M Wed Mar 06 14:40:02 2013 RPT1

Average of 14.712 to 14.722 min.: I182033.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	793	50.10	12635	64.05	190	78.05	461
37.10	3302	51.10	3877	67.10	67	79.00	1801
38.10	2932	52.05	197	68.10	6930	79.95	559
39.10	1149	55.05	177	69.10	6821	81.00	1769
40.05	96	56.10	1026	70.05	558	81.95	419
43.20	25	57.05	1736	72.00	412	87.00	3688
44.05	378	58.05	56	73.10	3012	88.00	3518
45.10	587	60.10	702	74.10	11602	90.95	291
47.05	888	61.10	3137	75.10	34525	92.05	1887
48.05	428	62.10	3120	76.10	2944	93.05	2917
49.10	3054	63.10	2169	77.05	522	94.10	8537

Average of 14.712 to 14.722 min.: I182033.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	75698	119.00	355	140.00	32	154.95	208
96.10	5201	127.30	42	140.95	625	156.95	145
97.10	145	127.90	265	141.80	37	158.95	118
104.00	272	129.00	118	142.05	75	160.85	59
104.95	124	129.95	285	142.95	614	171.50	28
105.95	263	130.95	77	144.90	28	171.70	36
106.90	57	133.10	33	145.90	108	174.00	74616
115.05	98	133.90	30	147.00	23	175.00	6197
115.95	238	134.95	153	148.00	200	176.00	71914
116.90	407	136.95	110	149.00	33	177.00	4785
117.95	279	139.75	118	149.90	28	177.90	145

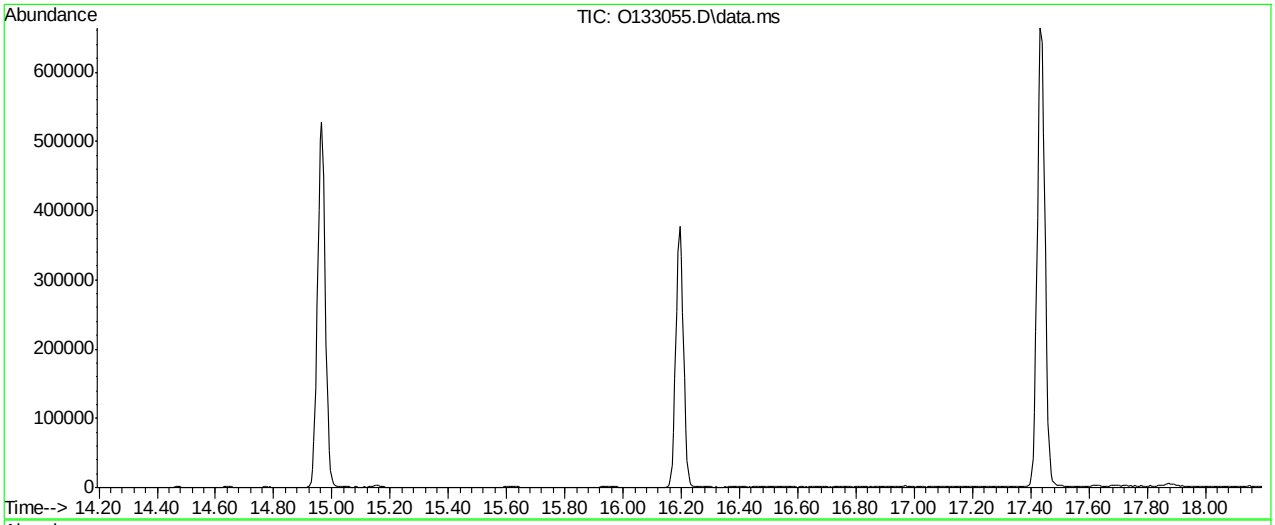
Average of 14.712 to 14.722 min.: I182033.D\data.ms
BFB
Modified:subtracted

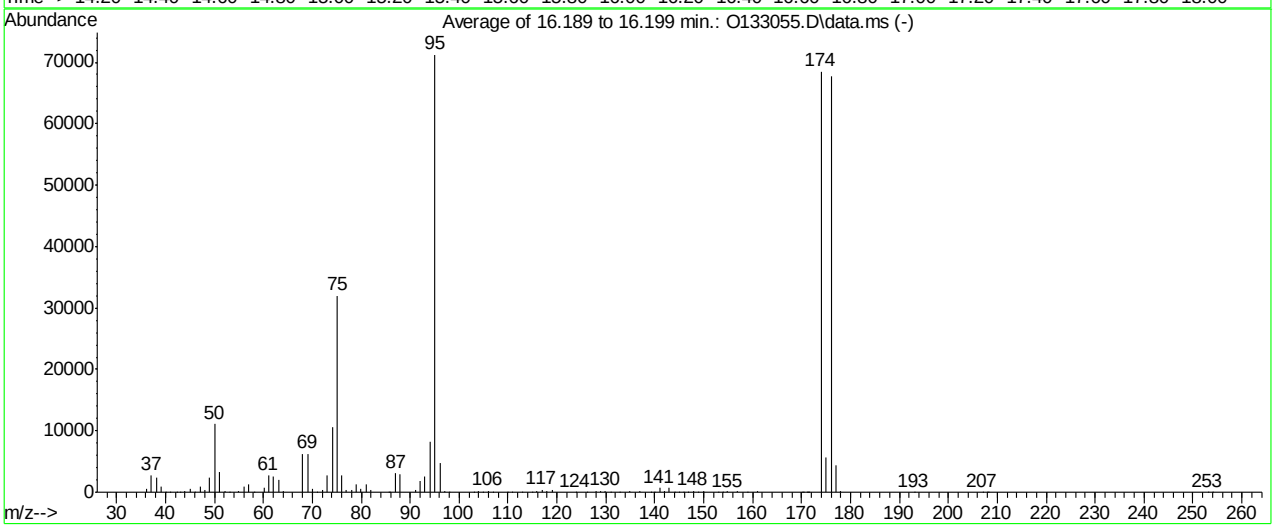
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.80	25						
191.10	42						
208.00	65						
253.00	40						
253.95	60						

SW-846 Method 8260

Data File : C:\msdchem\1\data\O133055.D Vial: 1
Acq On : 6 Feb 2013 2:48 pm Operator: DIPAP
Sample : BFB Inst : MSO
Misc : MS41527,VO5870,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title : Method 624, ZB624 60mx0.25mmx1.4um





AutoFind: Scans 2353, 2354, 2355; Background Corrected with Scan 2343

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	11061	PASS
75	95	30	60	44.9	32011	PASS
95	95	100	100	100.0	71275	PASS
96	95	5	9	6.7	4754	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	96.0	68456	PASS
175	174	5	9	8.4	5739	PASS
176	174	95	101	98.8	67640	PASS
177	176	5	9	6.4	4334	PASS

O133055.D MO5870S.M Thu Feb 07 16:53:47 2013 MSO

Average of 16.189 to 16.199 min.: O133055.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	587	47.05	834	60.10	650	74.10	10664
37.10	2745	48.00	375	61.00	2785	75.10	32011
38.10	2349	49.05	2350	62.05	2646	76.05	2790
39.10	853	50.10	11061	63.10	2041	77.00	391
40.05	10	51.10	3339	64.10	149	77.95	314
40.95	39	52.10	140	68.05	6208	78.90	1329
42.20	19	53.10	17	69.05	6281	79.95	473
43.10	17	55.00	212	70.05	467	80.95	1321
44.00	259	56.05	839	71.05	41	81.90	311
45.05	476	57.05	1344	72.05	399	85.50	17
45.95	45	58.05	57	73.05	2740	85.80	48

Average of 16.189 to 16.199 min.: O133055.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	3141	103.90	221	118.95	324	139.85	40
88.00	2994	104.90	71	123.80	21	140.95	707
91.00	285	105.95	242	126.10	20	142.00	114
92.00	1740	106.95	69	127.95	243	142.95	679
93.00	2640	109.80	20	128.95	113	144.10	29
94.10	8255	110.90	17	129.85	256	144.85	75
95.10	71275	112.80	22	130.95	95	145.95	99
96.05	4754	114.90	89	132.90	36	146.85	55
97.05	135	115.90	234	134.95	111	147.85	192
98.05	41	116.95	384	136.95	109	148.95	82
103.00	19	117.85	250	139.15	35	149.90	123

Average of 16.189 to 16.199 min.: O133055.D\data.ms
BFB
Modified:subtracted

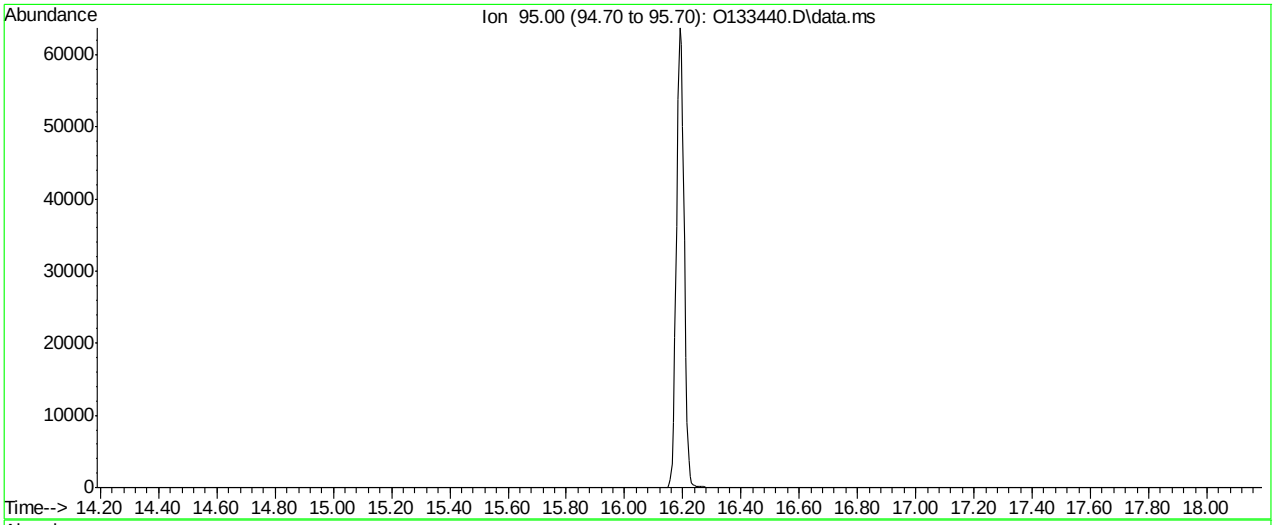
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	69	174.00	68456				
153.90	45	175.05	5739				
154.90	182	176.00	67640				
156.95	159	176.95	4334				
158.85	49	177.95	146				
160.90	106	193.00	18				
170.10	43	207.00	29				
170.45	45	207.90	17				
171.10	17	208.10	18				
171.40	34	253.05	53				
171.60	21	254.10	25				

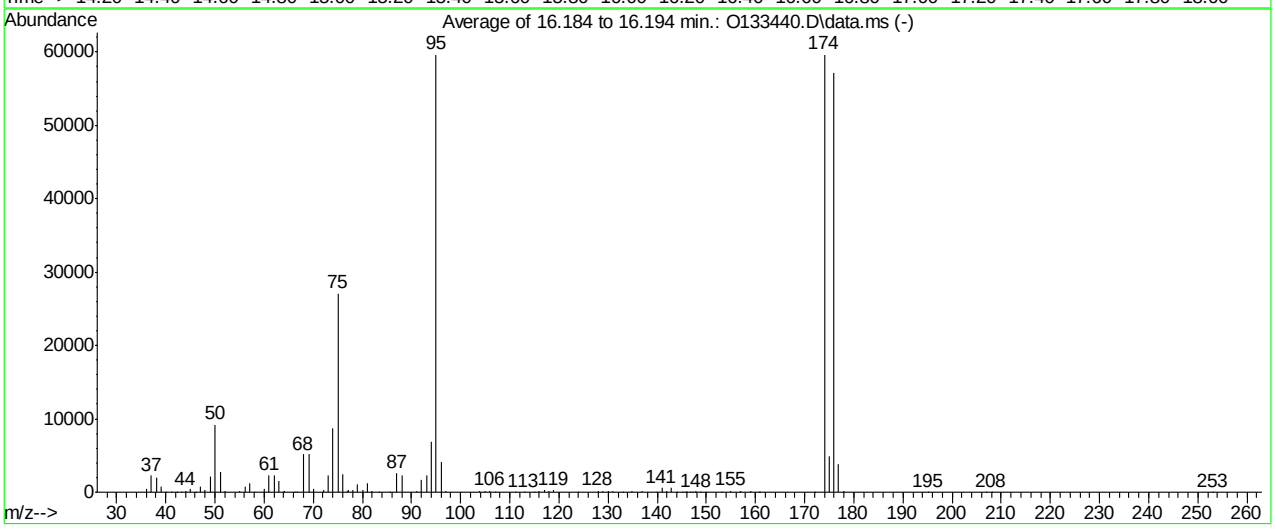
SW-846 Method 8260

Data File : C:\msdchem\1\data\O133440.D
Acq On : 25 Feb 2013 11:32 am
Sample : bfb
Misc : MS43731,VO5887,5.0,,,,1
MS Integration Params: rteint.p

Vial: 1
Operator: DIPAP
Inst : MSO
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title : Method 624, ZB624 60mx0.25mmx1.4um





AutoFind: Scans 2352, 2353, 2354; Background Corrected with Scan 2342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	9189	PASS
75	95	30	60	45.4	27067	PASS
95	95	100	100	100.0	59605	PASS
96	95	5	9	7.0	4170	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	100.1	59659	PASS
175	174	5	9	8.3	4967	PASS
176	174	95	101	95.8	57157	PASS
177	176	5	9	6.7	3814	PASS

O133440.D MO5870S.M Tue Feb 26 11:37:51 2013 MSO

Average of 16.184 to 16.194 min.: O133440.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	489	47.05	698	61.05	2366	73.05	2300
37.05	2233	48.05	363	62.05	2296	74.05	8709
38.10	2027	49.10	2173	63.05	1589	75.05	27067
39.10	757	50.10	9189	63.90	45	76.05	2403
40.05	2	51.10	2702	64.05	91	76.90	98
41.10	18	52.05	118	66.25	45	77.10	277
42.15	60	55.05	218	66.60	25	78.00	247
43.05	46	56.05	782	68.00	5189	78.95	1043
44.00	210	57.05	1161	69.05	5160	80.00	341
45.05	425	58.05	41	70.05	396	80.95	1160
46.15	49	60.05	538	72.05	280	81.95	226

Average of 16.184 to 16.194 min.: O133440.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.20	17	103.85	195	123.80	22	142.90	547
85.60	25	104.95	106	127.90	202	144.00	25
87.00	2619	105.90	197	128.90	108	145.00	30
88.00	2363	106.95	80	129.95	194	145.70	21
90.95	214	111.10	29	130.90	93	145.80	48
92.00	1638	112.90	36	133.10	21	145.95	40
93.00	2267	114.95	78	134.95	139	146.80	24
94.10	6897	115.85	191	136.95	115	147.10	21
95.00	59605	116.95	293	139.90	60	147.90	148
96.00	4170	117.95	198	140.90	578	148.80	41
97.05	158	118.95	295	142.00	103	150.00	41

Average of 16.184 to 16.194 min.: O133440.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.00	18	176.90	3814				
154.95	169	177.90	118				
156.70	21	195.10	21				
156.90	123	207.00	17				
158.95	90	208.00	18				
160.60	21	253.05	6				
160.90	43						
172.00	37						
174.00	59659						
175.00	4967						
176.00	57157						

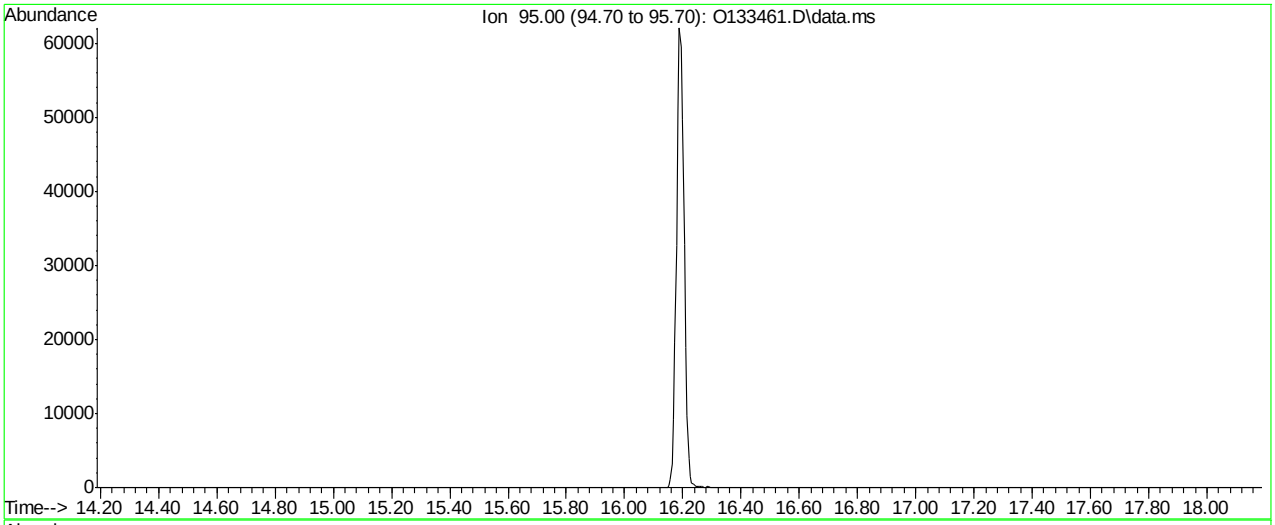
MO5870S.M Tue Feb 26 10:41:54 2013 MSO

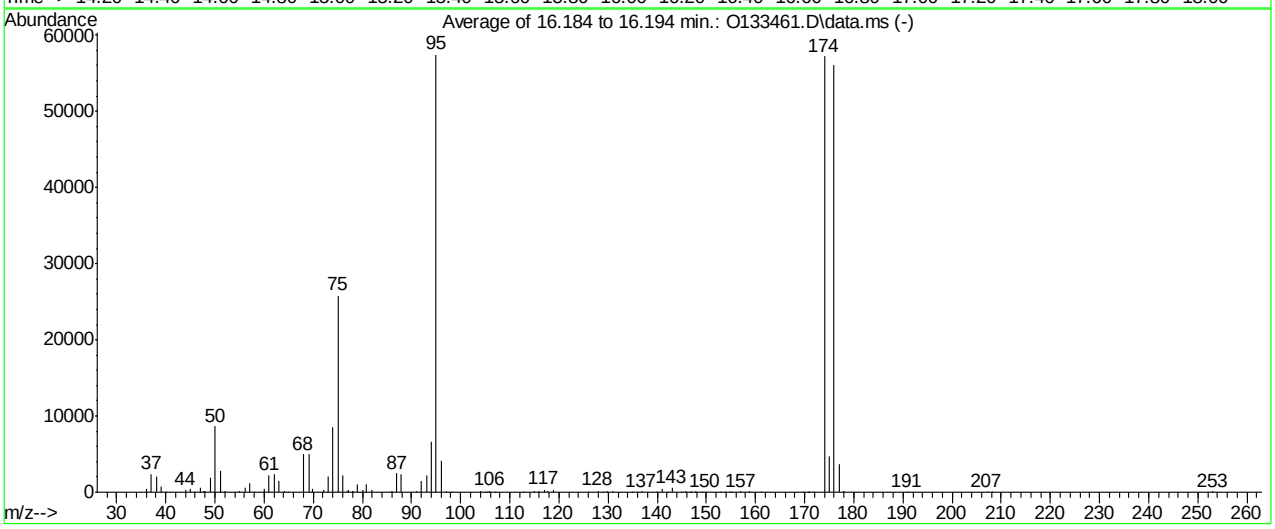
Page: 1

SW-846 Method 8260

Data File : C:\msdchem\1\data\O133461.D Vial: 22
Acq On : 25 Feb 2013 11:49 pm Operator: DIPAP
Sample : bfb2 Inst : MSO
Misc : MS43527,VO5887,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MO5870S.M (RTE Integrator)
Title : Method 624, ZB624 60mx0.25mmx1.4um





AutoFind: Scans 2352, 2353, 2354; Background Corrected with Scan 2342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	8666	PASS
75	95	30	60	44.9	25824	PASS
95	95	100	100	100.0	57464	PASS
96	95	5	9	7.1	4108	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.5	57203	PASS
175	174	5	9	8.3	4728	PASS
176	174	95	101	98.1	56096	PASS
177	176	5	9	6.7	3734	PASS

O133461.D MO5870S.M Tue Feb 26 12:03:09 2013 MSO

Average of 16.184 to 16.194 min.: O133461.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	422	49.05	1945	63.05	1525	76.90	102
37.10	2361	50.10	8666	64.10	156	77.10	254
38.10	1998	51.05	2780	64.90	17	77.95	149
39.05	716	52.10	129	68.00	4965	78.15	169
40.05	71	55.05	142	69.05	5005	78.95	1100
44.00	237	56.05	601	69.95	427	80.00	345
45.05	385	57.05	1148	72.05	300	80.90	1090
46.00	19	57.95	37	73.05	2103	81.95	248
47.05	650	60.00	453	74.05	8550	85.80	37
47.80	146	61.00	2219	75.05	25824	86.05	109
48.00	122	62.00	2384	76.05	2145	87.00	2469

Average of 16.184 to 16.194 min.: O133461.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	2339	105.05	59	127.90	210	144.85	46
90.95	173	105.40	17	128.90	79	145.80	102
92.00	1455	105.95	222	129.90	201	146.80	27
93.05	2205	107.00	38	130.90	127	147.05	51
94.05	6679	112.80	17	134.90	42	147.95	153
95.00	57464	115.00	86	136.00	18	148.95	40
96.00	4108	115.95	186	136.90	126	149.90	60
96.90	25	116.95	312	139.95	41	152.90	40
97.05	63	117.85	151	140.95	508	153.80	24
98.10	17	118.90	296	142.10	64	154.80	52
103.95	215	125.90	24	142.95	534	155.10	66

Average of 16.184 to 16.194 min.: O133461.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	117	177.80	36				
158.85	82	177.95	91				
161.00	52	190.90	20				
169.70	23	207.10	73				
170.60	23	208.05	39				
170.90	20	253.05	93				
171.80	29						
174.00	57203						
175.00	4728						
175.95	56096						
176.95	3734						

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 09:13:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	127983	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	185060	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	281618	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	258574	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	152493	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	0.000	113	0d	0.00 ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#
47) 1,2-dichloroethane-d4 (s)	0.000	65	0d	0.00 ug/L	
Spiked Amount 50.000	Range 70 - 122		Recovery	=	0.00%#
77) toluene-d8 (s)	0.000	98	0d	0.00 ug/L	
Spiked Amount 50.000	Range 81 - 127		Recovery	=	0.00%#
101) 4-bromofluorobenzene (s)	0.000	95	0d	0.00 ug/L	
Spiked Amount 50.000	Range 66 - 132		Recovery	=	0.00%#

Target Compounds

					Qvalue
8) chloromethane	4.899	50	1455	0.53 ug/L	88
9) vinyl chloride	5.171	62	1333	0.48 ug/L	90
10) bromomethane	5.861	94	737	0.47 ug/L	93
11) chloroethane	6.049	64	758m	0.48 ug/L	
15) ethyl ether	6.964	74	872	0.66 ug/L	94
18) 2-chloropropane	7.168	43	2318	0.60 ug/L	78
19) 1,1-dichloroethene	7.398	96	817	0.44 ug/L #	62
21) allyl chloride	7.900	41	1831	0.40 ug/L	91
24) iodomethane	7.659	142	1367	0.41 ug/L	80
26) carbon disulfide	7.805	76	2698	0.42 ug/L	84
28) 1-chloropropane	8.135	42	2406	0.62 ug/L #	83
29) methyl acetate	7.873	43	896	0.46 ug/L #	60
30) methyl tert butyl ether	8.443	73	2862m	0.48 ug/L	
31) trans-1,2-dichloroethene	8.464	96	836	0.43 ug/L	82
32) di-isopropyl ether	9.034	45	2872	0.43 ug/L	94
33) ethyl tert-butyl ether	9.494	59	2642	0.40 ug/L	99
35) 1,1-dichloroethane	9.008	63	1485	0.43 ug/L	88
36) chloroprene	9.144	53	1051	0.38 ug/L	78
37) acrylonitrile	8.375	53	1864	2.17 ug/L	93
40) 2,2-dichloropropane	9.776	77	1255m	0.51 ug/L	
41) cis-1,2-dichloroethene	9.740	96	887	0.43 ug/L #	83
42) propionitrile	9.782	54	1626	4.80 ug/L	56
45) chloroform	10.090	83	1359	0.42 ug/L	90
49) methacrylonitrile	9.975	41	854	0.59 ug/L	63
51) 1,1,1-trichloroethane	10.383	97	1246	0.44 ug/L	74
52) tert-amyl methyl ether	10.864	73	3128	0.48 ug/L	93
54) cyclohexane	10.477	84	1170	0.40 ug/L #	68
56) 2,2,4-trimethylpentane	10.869	57	2958	0.42 ug/L	92
57) epichlorohydrin	12.432	57	523	2.19 ug/L	59
58) n-butyl alcohol	11.261	56	1804	24.91 ug/L	83
59) carbon tetrachloride	10.592	117	1084	0.45 ug/L	81
60) 1,1-dichloropropene	10.555	75	1108	0.44 ug/L	93
61) hexane	8.804	57	1053	0.46 ug/L	84
62) benzene	10.812	78	3316	0.44 ug/L	93
63) heptane	11.015	57	559	0.43 ug/L #	78
64) isopropyl acetate	10.728	43	1931	0.47 ug/L #	78
65) 1,2-dichloroethane	10.806	62	994	0.40 ug/L	83
66) Ethyl Acrylate	11.517	55	1220	0.43 ug/L #	73
67) trichloroethene	11.517	95	836	0.45 ug/L	96
68) 2-nitropropane	12.317	43	2798	0.51 ug/L	83
72) 1,2-dichloropropane	11.784	63	820	0.41 ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 09:13:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration

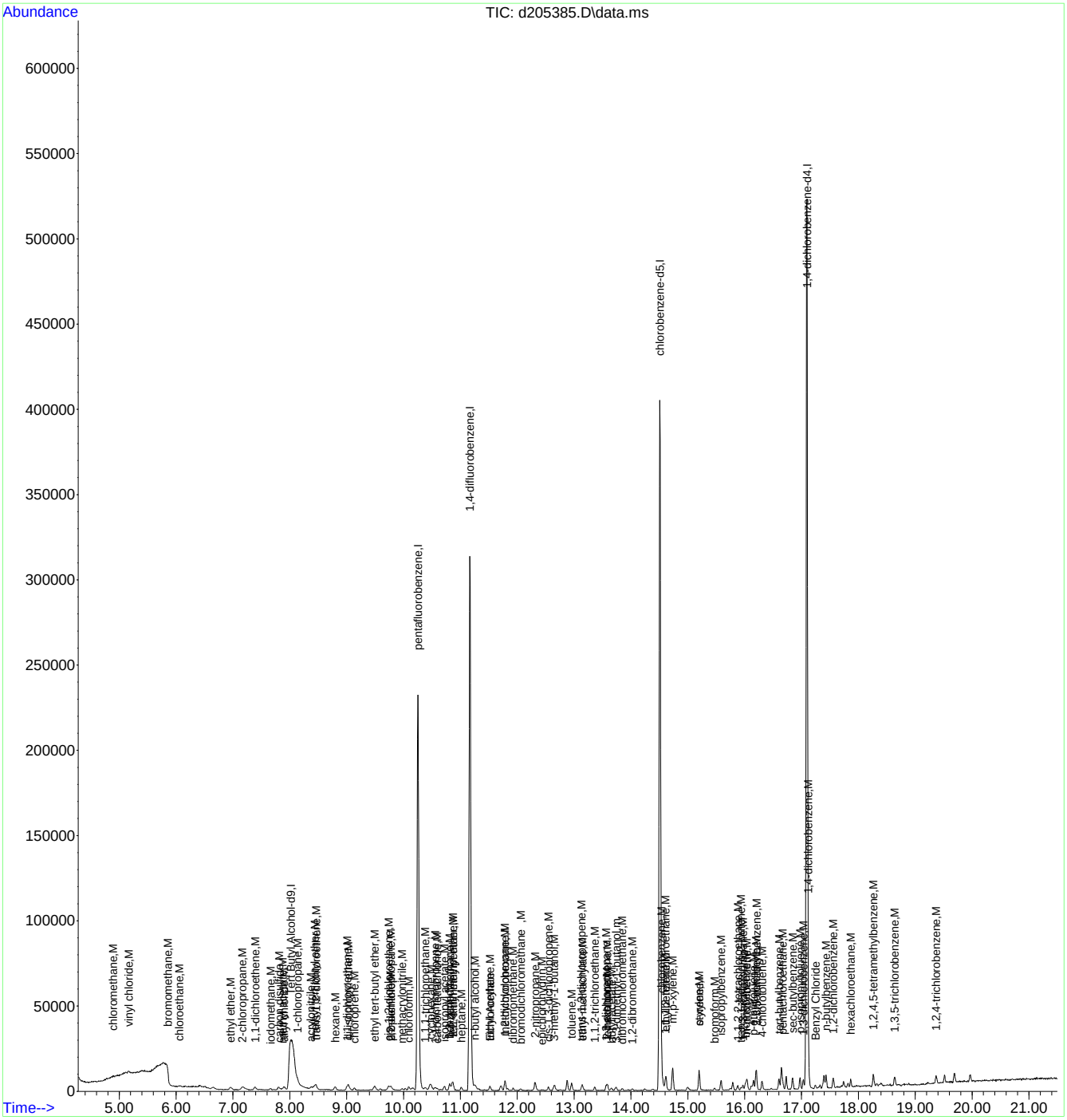
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
73) methylcyclohexane	11.789	83	1163	0.37 ug/L	94
74) dibromomethane	11.925	93	425	0.36 ug/L	80
75) bromodichloromethane	12.056	83	960	0.39 ug/L	88
76) cis-1,3-dichloropropene	12.547	75	1305	0.41 ug/L	73
79) toluene	12.955	92	2078	0.45 ug/L	80
80) 3-methyl-1-butanol	12.647	70	539	7.96 ug/L #	72
81) trans-1,3-dichloropropene	13.128	75	1254	0.42 ug/L	96
82) ethyl methacrylate	13.154	69	1361	0.49 ug/L	89
83) 1,1,2-trichloroethane	13.368	83	693	0.47 ug/L	93
84) 2-hexanone	13.577	58	327	0.41 ug/L #	74
86) tetrachloroethene	13.588	166	876	0.41 ug/L	99
87) 1,3-dichloropropane	13.561	76	1376	0.44 ug/L	91
88) butyl acetate	13.666	56	475	0.35 ug/L #	62
89) 3,3-dimethyl-1-butanol	13.739	57	1082	4.42 ug/L	86
90) dibromochloromethane	13.844	129	941	0.48 ug/L	88
91) 1,2-dibromoethane	14.022	107	782	0.43 ug/L	96
92) chlorobenzene	14.544	112	2469	0.47 ug/L	91
93) 1,1,1,2-tetrachloroethane	14.602	131	876	0.45 ug/L #	66
94) ethylbenzene	14.618	91	4545	0.50 ug/L	96
95) m,p-xylene	14.733	106	4319	1.19 ug/L	88
96) o-xylene	15.198	106	1988	0.55 ug/L	96
97) styrene	15.203	104	2857	0.47 ug/L	98
98) bromoform	15.464	173	788	0.52 ug/L	85
100) isopropylbenzene	15.585	105	4503	0.49 ug/L	98
102) bromobenzene	16.013	156	1230	0.50 ug/L	85
104) 1,1,2,2-tetrachloroethane	15.883	83	1743	0.62 ug/L	93
105) trans-1,4-dichloro-2-b...	15.940	53	360	0.47 ug/L #	63
106) 1,2,3-trichloropropane	15.977	110	474	0.59 ug/L #	47
107) n-propylbenzene	16.040	91	6030	0.56 ug/L	97
108) p-ethyltoluene	16.155	105	4753	0.55 ug/L	98
109) 2-chlorotoluene	16.196	126	1078	0.48 ug/L	87
110) 4-chlorotoluene	16.306	91	3818	0.54 ug/L	98
111) 1,3,5-trimethylbenzene	16.207	105	5407	0.64 ug/L	99
112) tert-butylbenzene	16.604	119	3766	0.53 ug/L	86
113) pentachloroethane	16.672	167	901	0.57 ug/L	94
115) sec-butylbenzene	16.845	105	5539	0.53 ug/L	97
116) 1,3-dichlorobenzene	17.038	146	2757	0.56 ug/L	95
117) p-isopropyltoluene	16.975	119	4543	0.52 ug/L	91
118) 1,4-dichlorobenzene	17.122	146	2953	0.58 ug/L	84
119) Benzyl Chloride	17.247	91	2142	0.46 ug/L #	91
121) 1,2-dichlorobenzene	17.561	146	3078	0.62 ug/L	98
122) n-butylbenzene	17.430	92	2643	0.55 ug/L	96
123) 1,2,4,5-tetramethylben...	18.261	119	4437	0.55 ug/L #	95
125) 1,3,5-trichlorobenzene	18.643	180	2195	0.58 ug/L	86
126) 1,2,4-trichlorobenzene	19.370	180	1877	0.61 ug/L	93
130) hexachloroethane	17.869	119	944	0.58 ug/L	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 09:13:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205385.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 20:29	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroethane	75-00-3		6.05	Split peak
Methyl Tert Butyl Ether	1634-04-4		8.44	Split peak
2,2-Dichloropropane	594-20-7		9.78	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On    : 11 Feb 2013   8:29 pm
Operator  : EmilyT
Sample    : IC8379-0.5
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 12 08:22:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration
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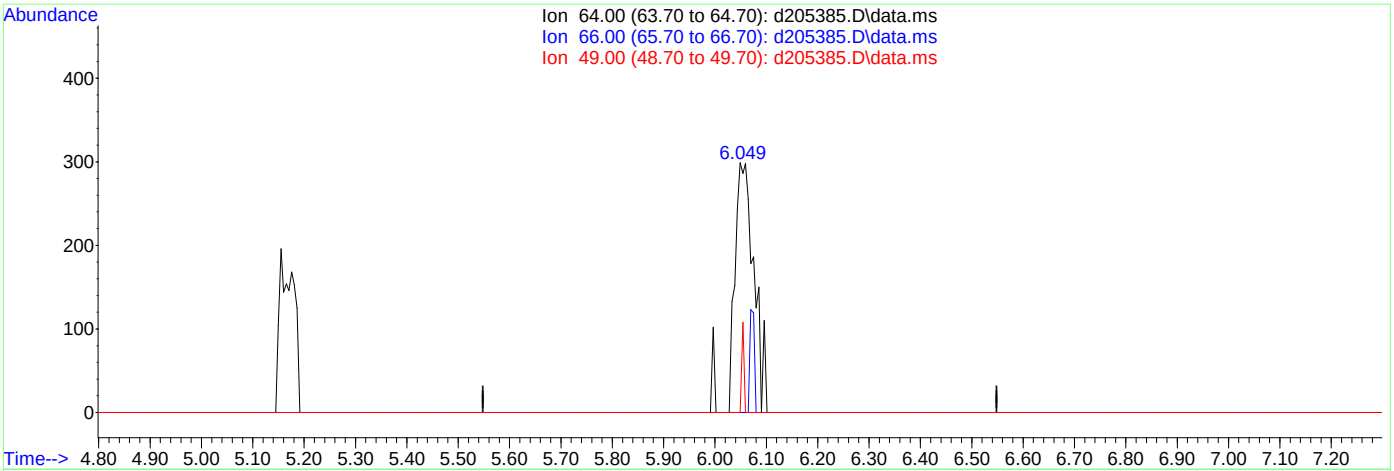
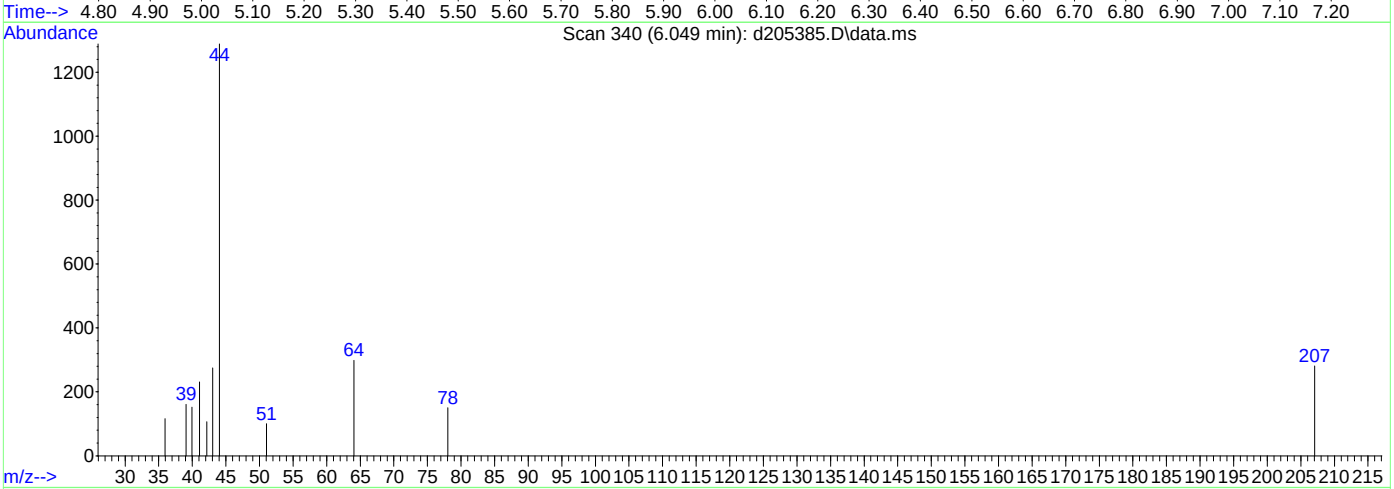




TIC: d205385.D\data.ms

(11) chloroethane (M)

6.049min (+0.000) 0.48ug/L m

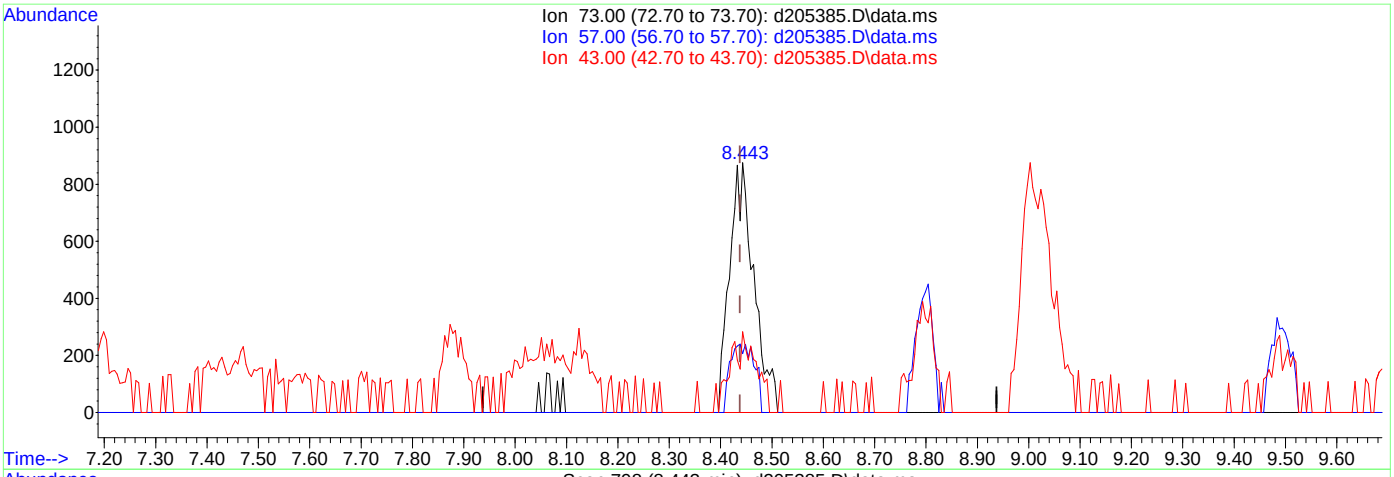
response 758

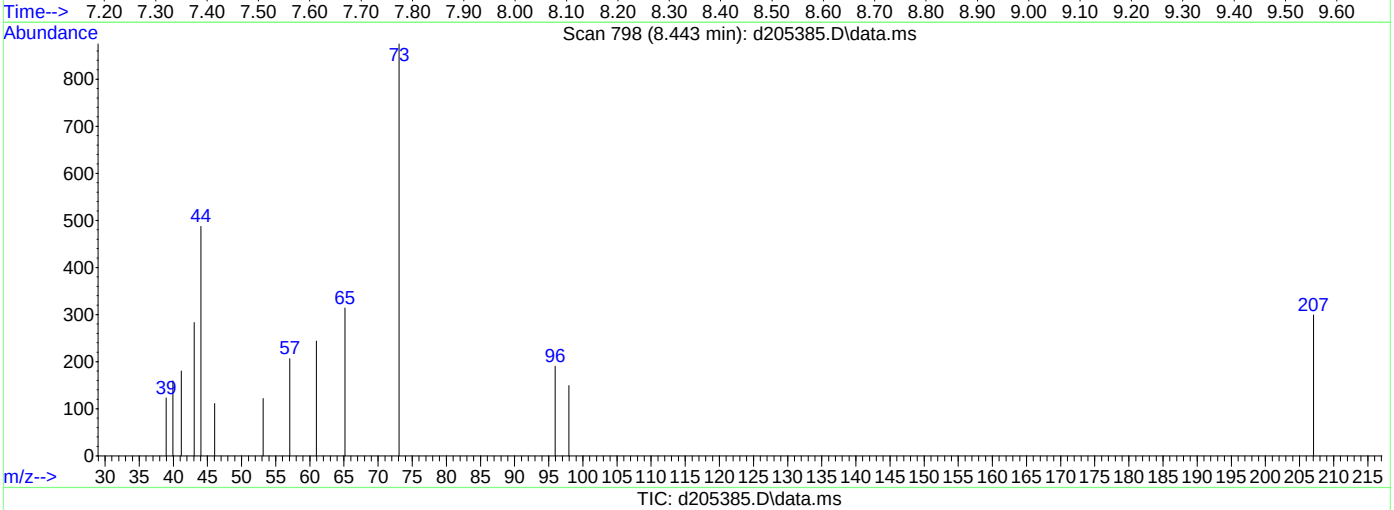
Ion	Exp%	Act%
64.00	100	100
66.00	31.50	0.00#
49.00	25.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On    : 11 Feb 2013   8:29 pm
Operator  : EmilyT
Sample    : IC8379-0.5
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 12 08:22:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration
```





TIC: d205385.D\data.ms

(30) methyl tert butyl ether (M)

8.443min (+0.006) 0.48ug/L m

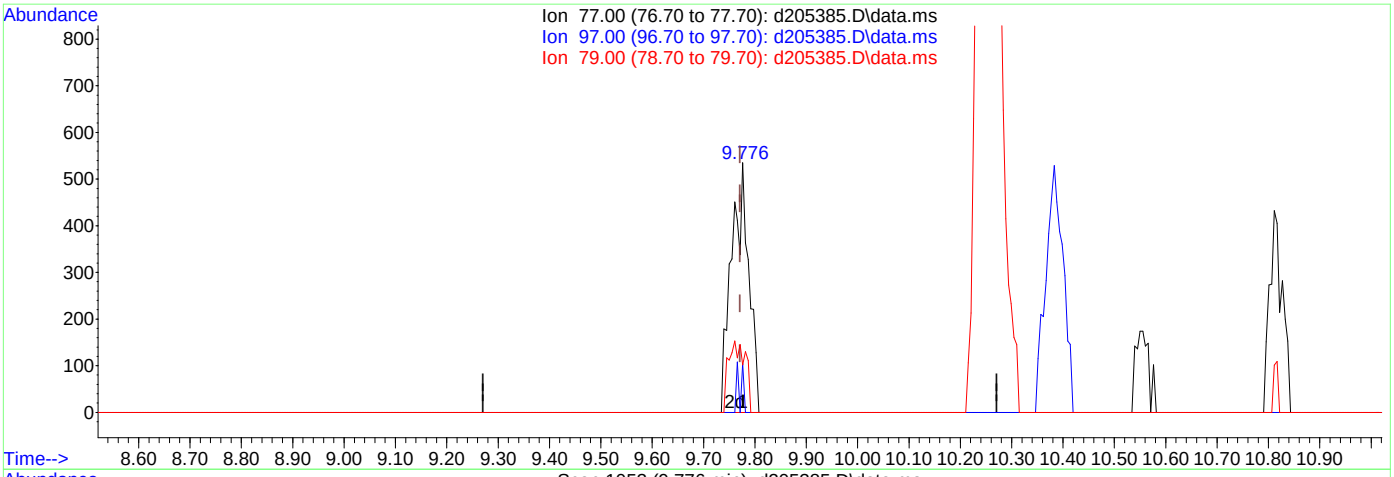
response 2862

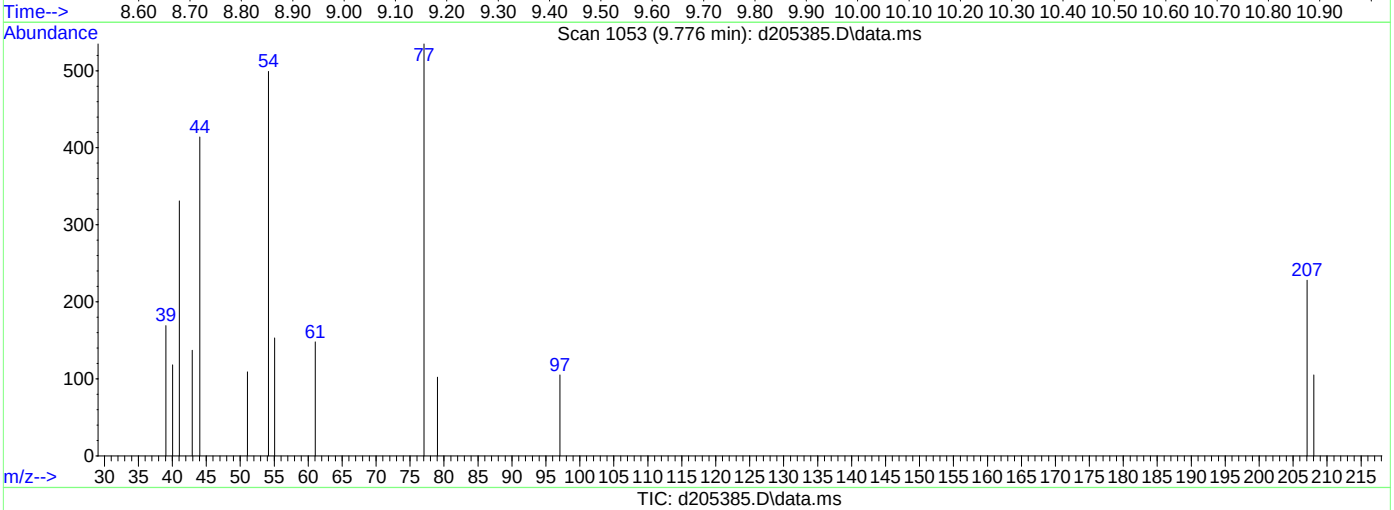
Ion	Exp%	Act%
73.00	100	100
57.00	24.40	23.54
43.00	20.80	32.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 08:22:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205385.D\data.ms

(40) 2,2-dichloropropane (M)

9.776min (+0.006) 0.51ug/L m

response 1255

Ion	Exp%	Act%
77.00	100	100
97.00	20.10	19.63
79.00	32.10	19.07
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205385.D
Acq On    : 11 Feb 2013   8:29 pm
Operator  : EmilyT
Sample    : IC8379-0.5
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 12 09:32:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration
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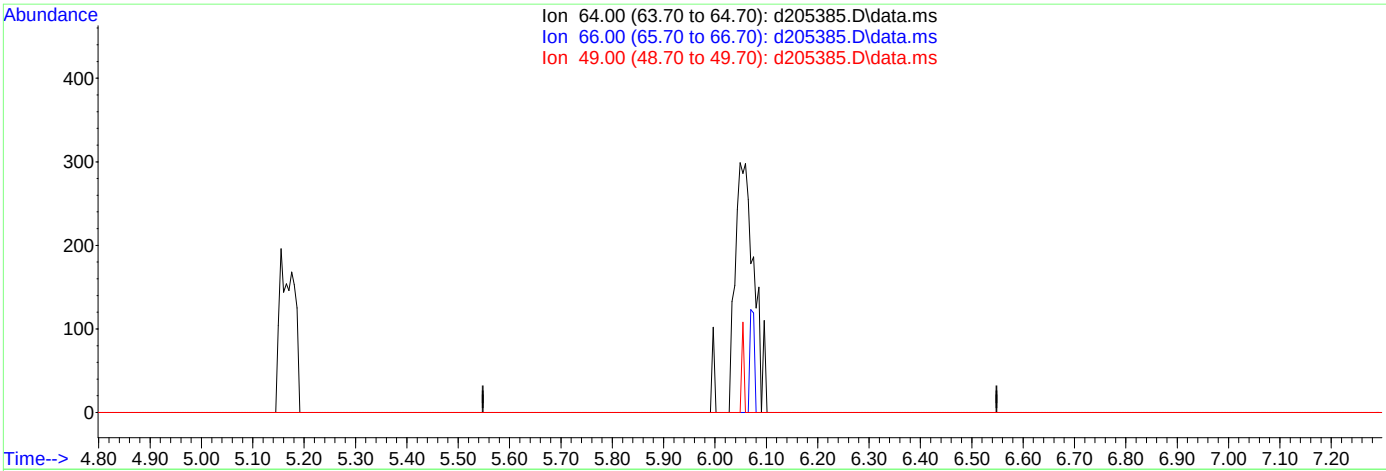
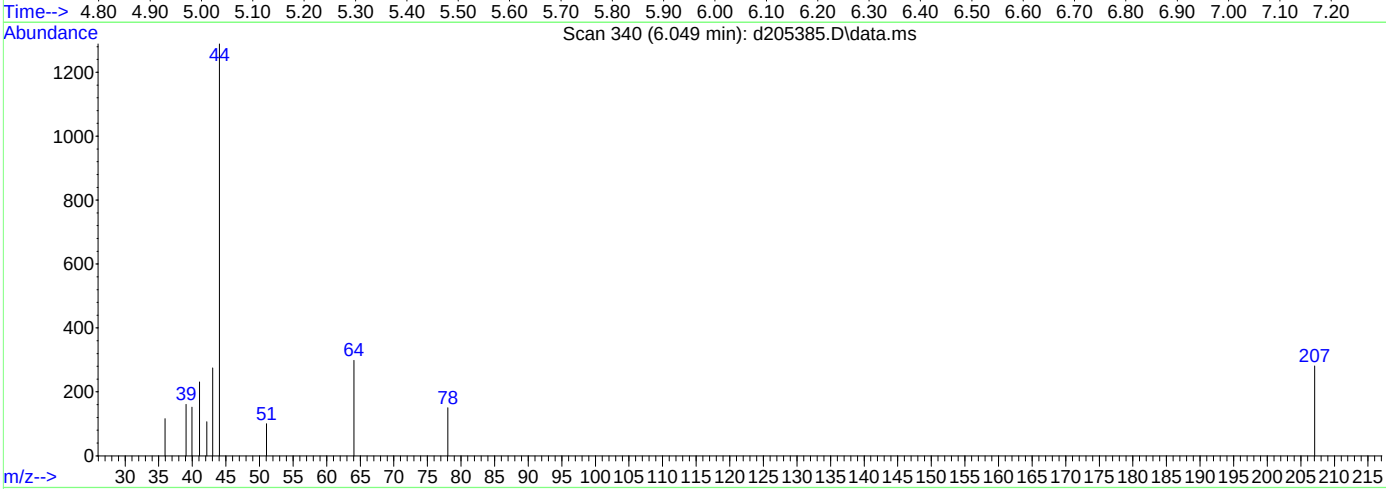




TIC: d205385.D\data.ms

(11) chloroethane (M)

6.048min (-6.048) 0.00ug/L

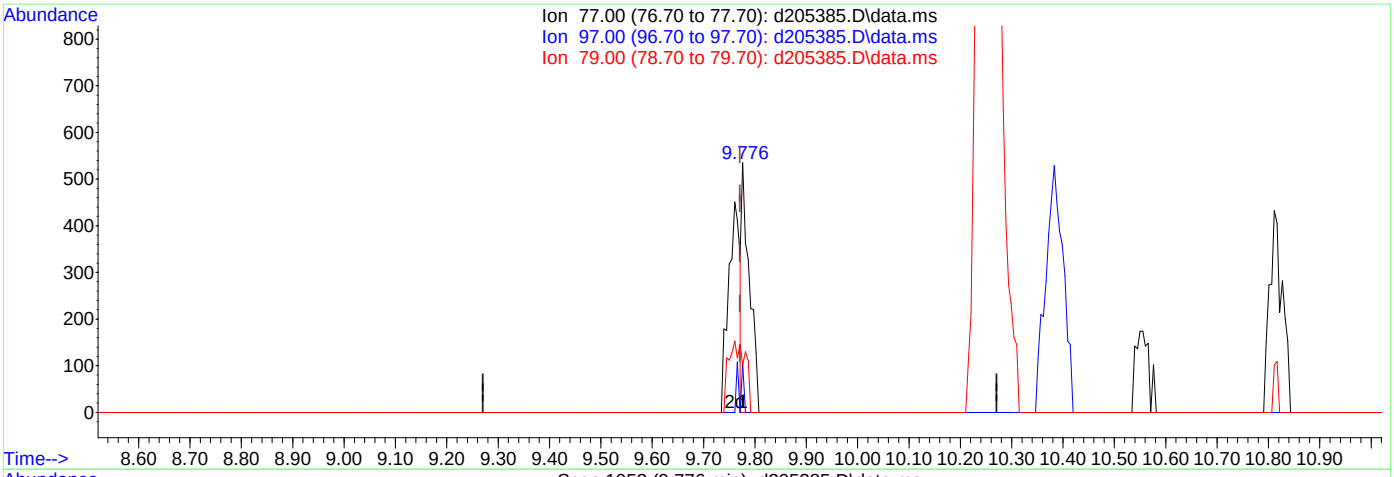
response 0

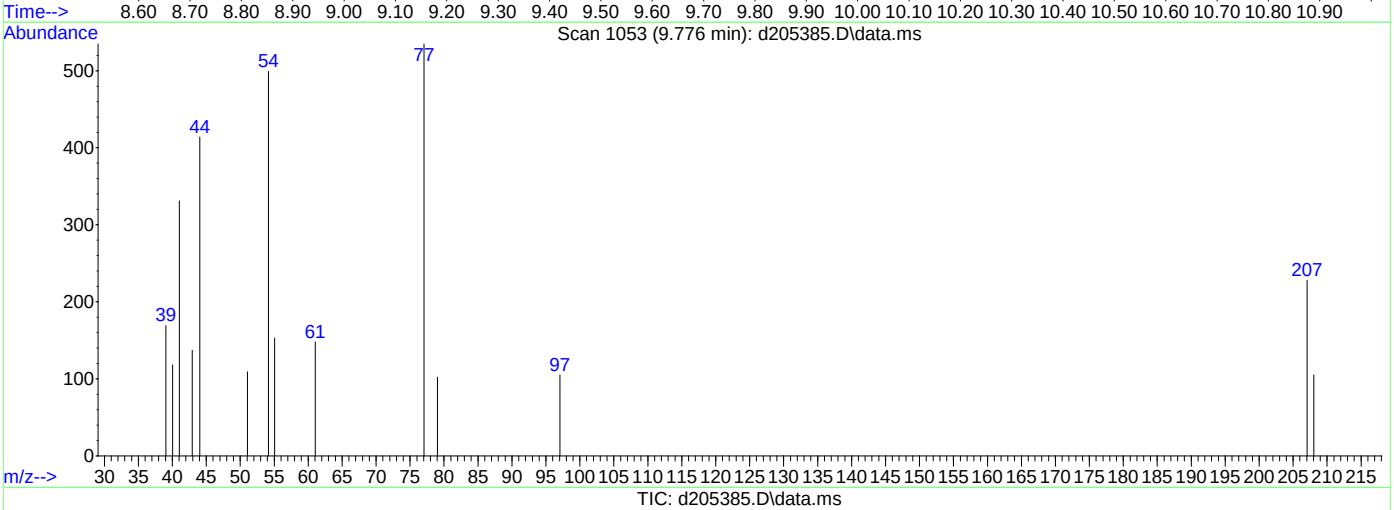
Ion	Exp%	Act%
64.00	100	0.00
66.00	31.50	0.00#
49.00	25.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 09:32:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





TIC: d205385.D\data.ms

(40) 2,2-dichloropropane (M)

9.776min (+0.006) 0.22ug/L

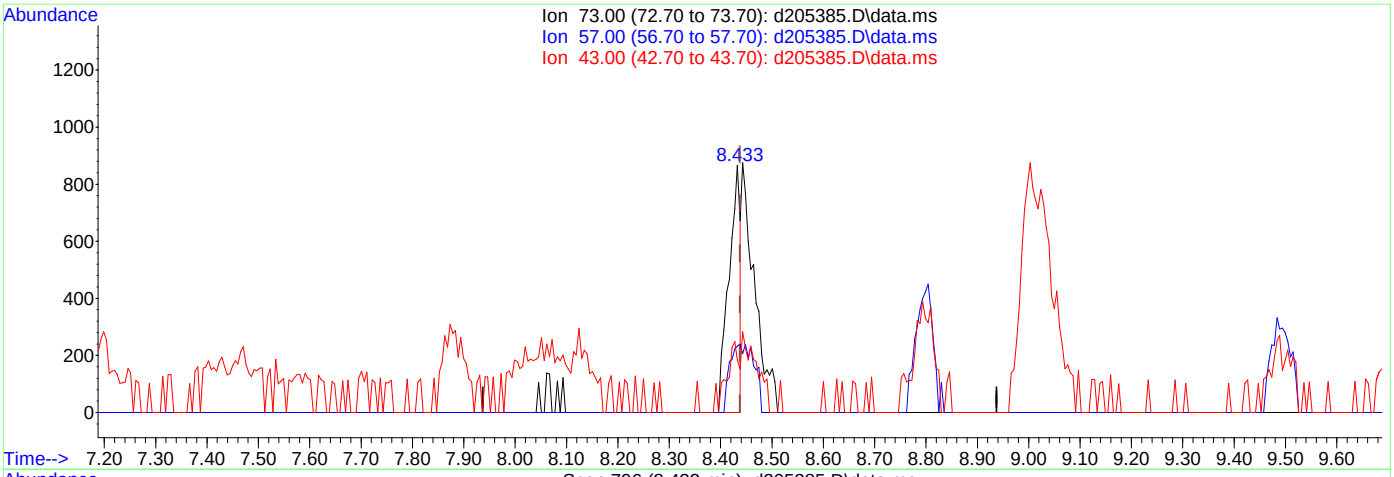
response 564

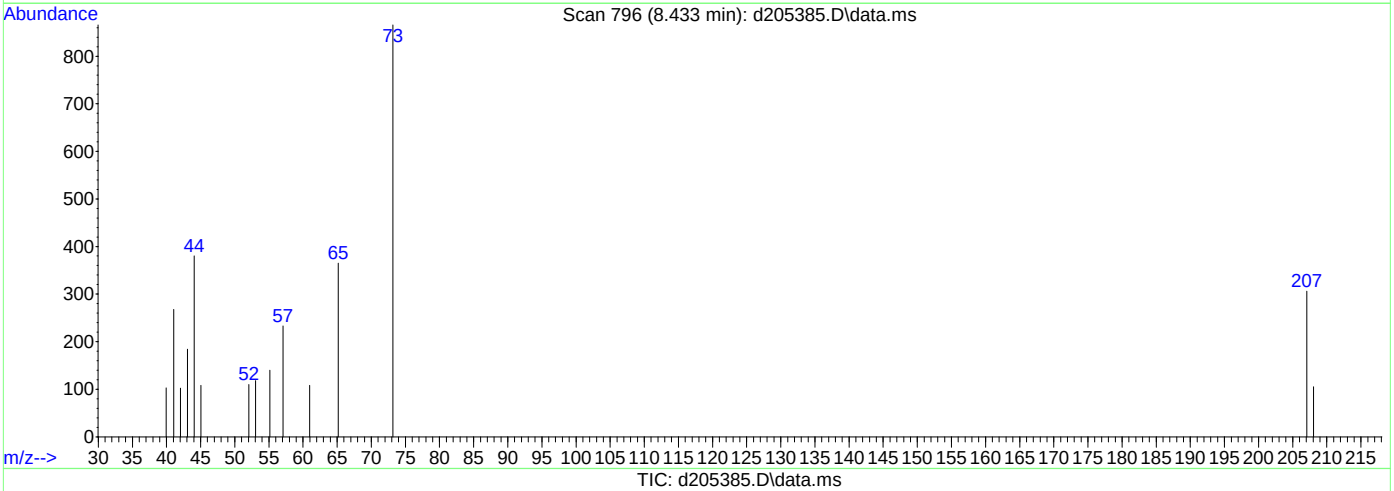
Ion	Exp%	Act%
77.00	100	100
97.00	20.10	19.63
79.00	32.10	19.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205385.D
Acq On : 11 Feb 2013 8:29 pm
Operator : EmilyT
Sample : IC8379-0.5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 12 09:32:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





TIC: d205385.D\data.ms

(30) methyl tert butyl ether (M)

8.433min (-0.005) 0.21ug/L

response 1333

Ion	Exp%	Act%
73.00	100	100
57.00	24.40	26.91
43.00	20.80	21.25
0.00	0.00	0.00

ACCUTEST LABORATORIES JB29314

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 08:39:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.015	65	126726	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	189145	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	292460	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	259694	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	154991	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.284	113	1680	0.92 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 1.84%#	
47) 1,2-dichloroethane-d4 (s)	10.713	65	1954	0.91 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery	= 1.82%#	
77) toluene-d8 (s)	12.877	98	5873	0.86 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery	= 1.72%#	
101) 4-bromofluorobenzene (s)	15.789	95	2491	0.90 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery	= 1.80%#	

Target Compounds

					Qvalue
3) tertiary butyl alcohol	8.141	59	1052	3.90 ug/L	90
6) chlorodifluoromethane	4.560	51	1655	0.83 ug/L	82
7) dichlorodifluoromethane	4.549	85	1962	0.77 ug/L	76
8) chloromethane	4.894	50	2353	0.83 ug/L	91
9) vinyl chloride	5.166	62	2361	0.82 ug/L	86
10) bromomethane	5.872	94	1439	0.90 ug/L	81
11) chloroethane	6.050	64	1396	0.86 ug/L	78
13) trichlorofluoromethane	6.567	101	2325	0.77 ug/L	90
14) pentane	6.640	43	2906	0.87 ug/L	85
15) ethyl ether	6.959	74	1364	1.01 ug/L	92
16) acrolein	7.184	56	548072	1116.93 ug/L	99
18) 2-chloropropane	7.158	43	4521	1.14 ug/L #	1
19) 1,1-dichloroethene	7.388	96	1853	0.97 ug/L	93
20) acetone	7.399	58	791	3.74 ug/L	92
21) allyl chloride	7.900	41	3971	0.85 ug/L	94
24) iodomethane	7.660	142	2977	0.88 ug/L	91
26) carbon disulfide	7.801	76	6059	0.92 ug/L	91
27) methylene chloride	8.073	84	2786	1.13 ug/L	90
28) 1-chloropropane	8.130	42	3951	1.00 ug/L	98
29) methyl acetate	7.880	43	2117	1.06 ug/L #	60
30) methyl tert butyl ether	8.434	73	5711	0.94 ug/L	98
31) trans-1,2-dichloroethene	8.460	96	2004	1.01 ug/L	74
32) di-isopropyl ether	9.035	45	5350	0.79 ug/L	91
33) ethyl tert-butyl ether	9.490	59	5210	0.77 ug/L	95
35) 1,1-dichloroethane	9.014	63	3112	0.87 ug/L	97
36) chloroprene	9.129	53	2197	0.78 ug/L	93
37) acrylonitrile	8.376	53	3865	4.40 ug/L	92
40) 2,2-dichloropropane	9.762	77	2503	1.00 ug/L	85
41) cis-1,2-dichloroethene	9.730	96	2008	0.95 ug/L #	76
42) propionitrile	9.777	54	2977	8.61 ug/L	80
43) bromochloromethane	10.033	128	834	0.86 ug/L	88
44) tetrahydrofuran	10.101	72	319	0.98 ug/L #	39
45) chloroform	10.091	83	2993	0.91 ug/L	94
48) freon 113	7.367	151	972	0.77 ug/L	85
49) methacrylonitrile	9.976	41	1442	0.97 ug/L	83
50) t-butyl formate	10.154	59	1651	0.84 ug/L #	84
51) 1,1,1-trichloroethane	10.384	97	2416	0.84 ug/L	94
52) tert-amyl methyl ether	10.859	73	5358	0.80 ug/L	96
54) cyclohexane	10.478	84	2817	0.93 ug/L	93
55) tert amyl alcohol	10.645	55	405	4.45 ug/L	85
56) 2,2,4-trimethylpentane	10.865	57	6283	0.86 ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 08:39:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
57) epichlorohydrin	12.433	57	949	3.82 ug/L	59
58) n-butyl alcohol	11.257	56	3616	48.08 ug/L	86
59) carbon tetrachloride	10.588	117	2109	0.84 ug/L	84
60) 1,1-dichloropropene	10.556	75	2275	0.87 ug/L	98
61) hexane	8.794	57	2377	0.99 ug/L	98
62) benzene	10.812	78	7046	0.91 ug/L	96
63) heptane	11.016	57	1105	0.82 ug/L	86
64) isopropyl acetate	10.724	43	3652	0.86 ug/L	92
65) 1,2-dichloroethane	10.797	62	2204	0.85 ug/L	88
66) Ethyl Acrylate	11.508	55	3027	1.03 ug/L #	81
67) trichloroethene	11.518	95	1664	0.87 ug/L	95
68) 2-nitropropane	12.313	43	4773	0.84 ug/L	87
69) 2-chloroethyl vinyl ether	12.313	63	5047	3.58 ug/L	95
70) methyl methacrylate	11.790	100	479	0.88 ug/L #	45
71) tert-amyl ethyl ether	11.717	87	2027	0.71 ug/L	88
72) 1,2-dichloropropane	11.785	63	1776	0.85 ug/L	92
73) methylcyclohexane	11.790	83	2656	0.82 ug/L	99
74) dibromomethane	11.931	93	1010	0.82 ug/L	86
75) bromodichloromethane	12.062	83	2132	0.84 ug/L	91
76) cis-1,3-dichloropropene	12.548	75	2772	0.84 ug/L	86
78) 4-methyl-2-pentanone	12.658	58	727m	0.80 ug/L	
79) toluene	12.956	92	4132	0.86 ug/L	89
80) 3-methyl-1-butanol	12.647	70	1191	16.93 ug/L	85
81) trans-1,3-dichloropropene	13.134	75	2603	0.84 ug/L	90
82) ethyl methacrylate	13.149	69	2341	0.81 ug/L	96
83) 1,1,2-trichloroethane	13.358	83	1378	0.90 ug/L	95
84) 2-hexanone	13.562	58	677	0.82 ug/L #	72
86) tetrachloroethene	13.588	166	1923	0.90 ug/L	91
87) 1,3-dichloropropane	13.568	76	2747	0.88 ug/L	97
88) butyl acetate	13.656	56	1166	0.85 ug/L	90
89) 3,3-dimethyl-1-butanol	13.730	57	2291	9.31 ug/L	88
90) dibromochloromethane	13.845	129	1640	0.83 ug/L	93
91) 1,2-dibromoethane	14.022	107	1543	0.84 ug/L	86
92) chlorobenzene	14.540	112	4649	0.88 ug/L	95
93) 1,1,1,2-tetrachloroethane	14.608	131	1610	0.82 ug/L	93
94) ethylbenzene	14.618	91	8242	0.90 ug/L	93
95) m,p-xylene	14.733	106	6605	1.81 ug/L	97
96) o-xylene	15.199	106	3162	0.87 ug/L	91
97) styrene	15.199	104	5250	0.86 ug/L	96
98) bromoform	15.471	173	1227	0.80 ug/L	91
100) isopropylbenzene	15.586	105	8386	0.91 ug/L	99
102) bromobenzene	16.014	156	2237	0.89 ug/L	95
103) cyclohexanone	15.748	55	946	11.98 ug/L	96
104) 1,1,2,2-tetrachloroethane	15.878	83	2817	0.99 ug/L	90
105) trans-1,4-dichloro-2-b...	15.941	53	655	0.84 ug/L	86
106) 1,2,3-trichloropropane	15.967	110	744	0.92 ug/L #	72
107) n-propylbenzene	16.040	91	10434	0.95 ug/L	97
108) p-ethyltoluene	16.155	105	7476	0.85 ug/L	98
109) 2-chlorotoluene	16.202	126	2155	0.94 ug/L #	82
110) 4-chlorotoluene	16.302	91	6929	0.96 ug/L	98
111) 1,3,5-trimethylbenzene	16.208	105	8292	0.96 ug/L	98
112) tert-butylbenzene	16.605	119	6870	0.95 ug/L	99
113) pentachloroethane	16.673	167	1509	0.94 ug/L	88
114) 1,2,4-trimethylbenzene	16.647	105	9567	1.00 ug/L	94
115) sec-butylbenzene	16.846	105	10182	0.96 ug/L	96
116) 1,3-dichlorobenzene	17.034	146	4541	0.91 ug/L	97
117) p-isopropyltoluene	16.971	119	8216	0.93 ug/L	96
118) 1,4-dichlorobenzene	17.128	146	5016	0.97 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 08:39:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.248	91	4248	0.90 ug/L	96
120) p-diethylbenzene	17.394	119	4478	0.81 ug/L	97
121) 1,2-dichlorobenzene	17.557	146	4859	0.96 ug/L	99
122) n-butylbenzene	17.431	92	4399	0.91 ug/L	95
123) 1,2,4,5-tetramethylben...	18.268	119	6504	0.80 ug/L	94
124) 1,2-dibromo-3-chloropr...	18.398	75	676	1.12 ug/L #	73
125) 1,3,5-trichlorobenzene	18.639	180	4001	1.04 ug/L	89
126) 1,2,4-trichlorobenzene	19.365	180	3048	0.98 ug/L	95
127) hexachlorobutadiene	19.512	225	1994	1.06 ug/L	98
128) naphthalene	19.690	128	7521	1.04 ug/L	99
129) 1,2,3-trichlorobenzene	19.972	180	2546	0.97 ug/L	95
130) hexachloroethane	17.860	119	1635	0.98 ug/L	97

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

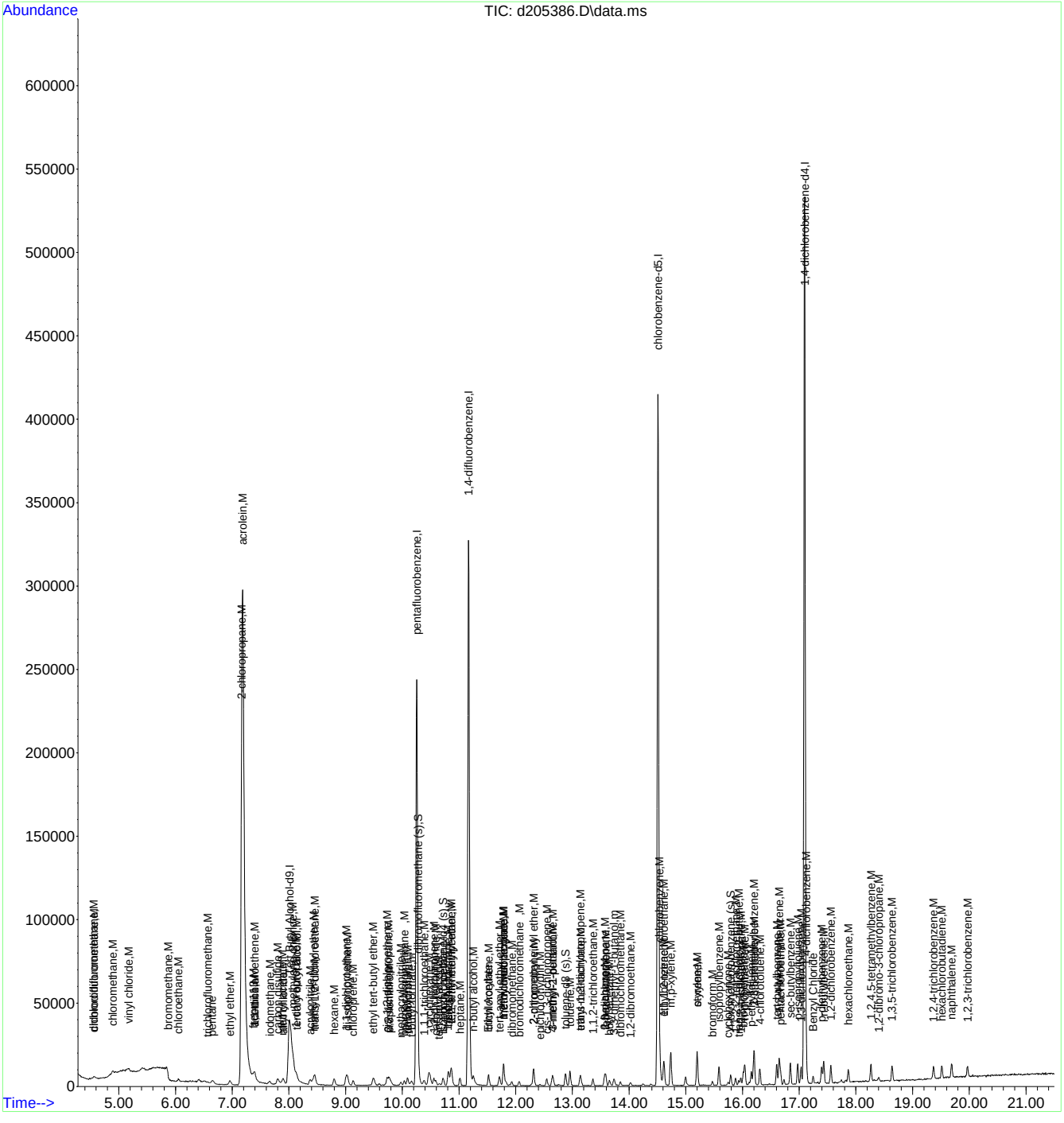
7.7.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 08:39:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

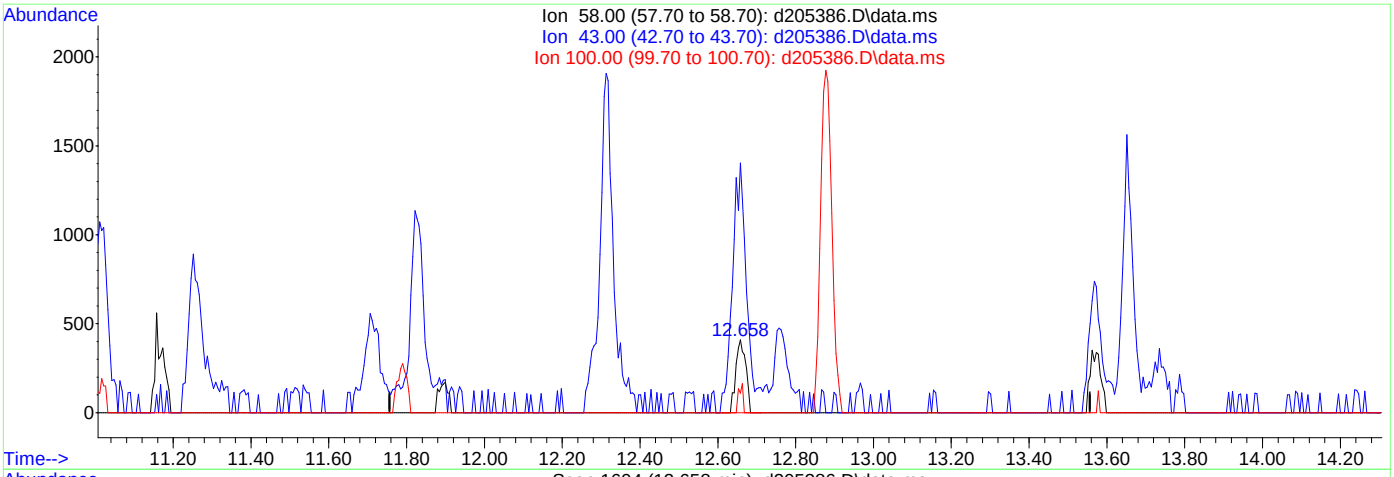
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205386.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 20:58	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

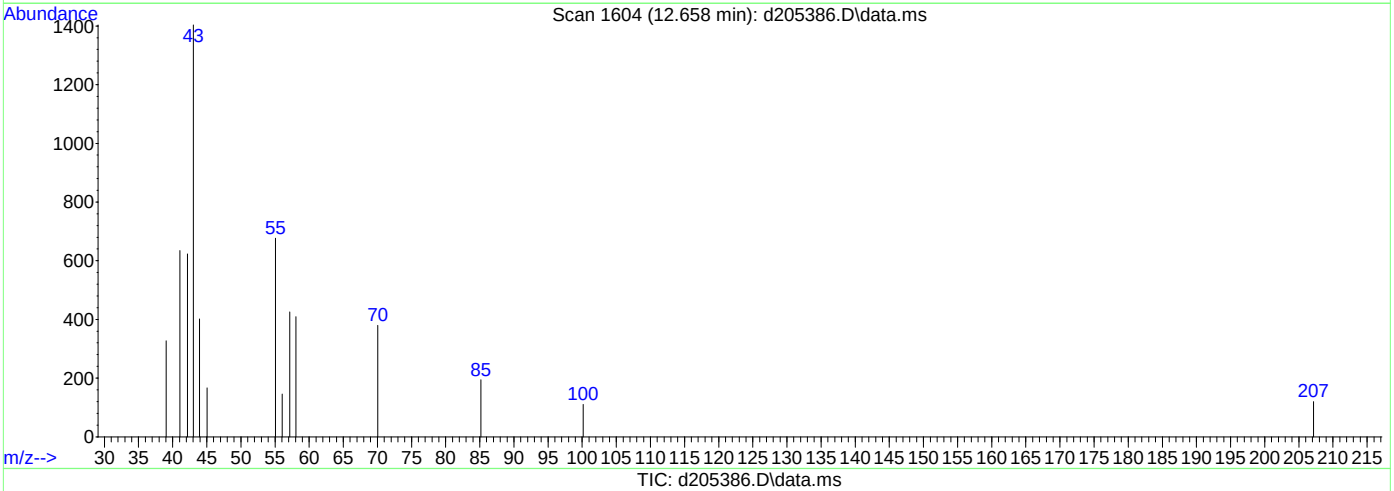
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Methyl-2-pentanone(MIBK)	108-10-1		12.66	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 08:26:43 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205386.D\data.ms

(78) 4-methyl-2-pentanone (M)

12.658min (+0.001) 0.80ug/L m

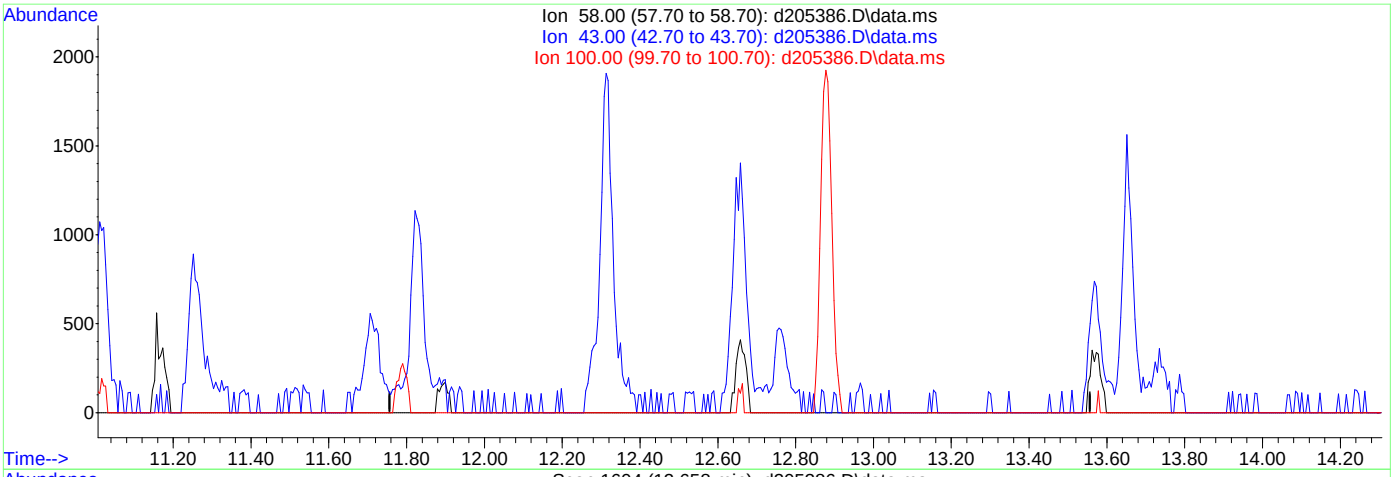
response 727

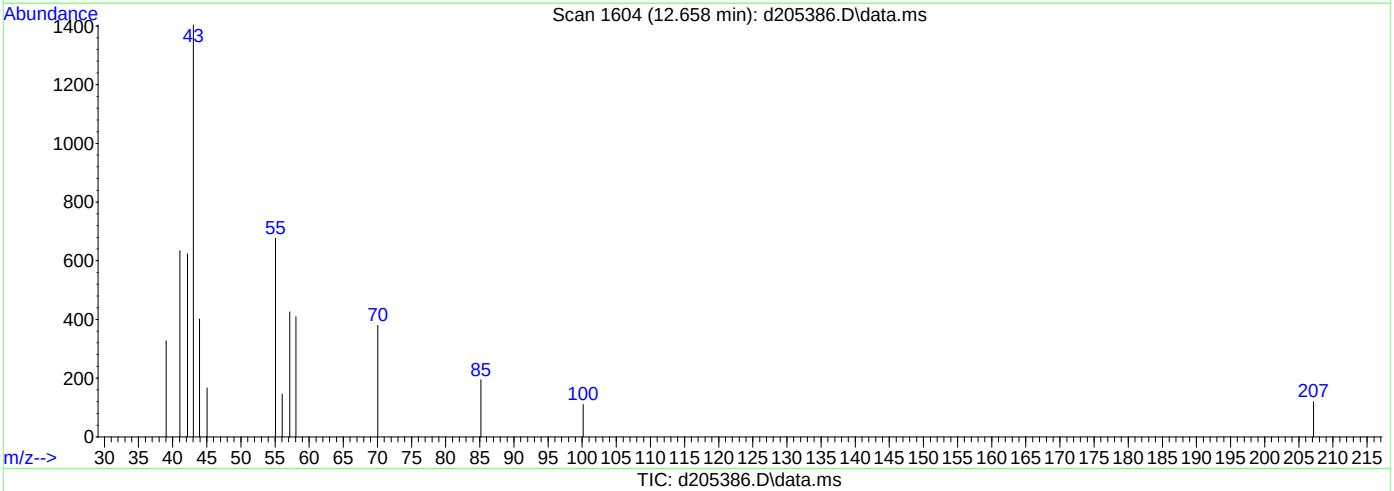
Ion	Exp%	Act%
58.00	100	100
43.00	379.70	0.00#
100.00	35.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205386.D
Acq On : 11 Feb 2013 8:58 pm
Operator : EmilyT
Sample : IC8379-1
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 09:32:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





TIC: d205386.D\data.ms

(78) 4-methyl-2-pentanone (M)

12.657min (-12.657) 0.00ug/L

response 0

Ion	Exp%	Act%
58.00	100	0.00
43.00	379.70	0.00#
100.00	35.70	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:41:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.014	65	129962	500.00 ug/L	0.00
4) pentafluorobenzene	10.257	168	191949	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.166	114	296446	50.00 ug/L	0.00
85) chlorobenzene-d5	14.507	117	268264	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	155727	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.283	113	4082	2.21 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 4.42%#	
47) 1,2-dichloroethane-d4 (s)	10.712	65	4802	2.21 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery	= 4.42%#	
77) toluene-d8 (s)	12.876	98	15402	2.23 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery	= 4.46%#	
101) 4-bromofluorobenzene (s)	15.793	95	6252	2.24 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery	= 4.48%#	

Target Compounds					Qvalue
2) 1,4-dioxane	11.888	88	1146	46.37 ug/L #	79
3) tertiary butyl alcohol	8.124	59	2666	9.63 ug/L	85
6) chlorodifluoromethane	4.564	51	4306	2.12 ug/L	95
7) dichlorodifluoromethane	4.548	85	5477	2.13 ug/L	90
8) chloromethane	4.898	50	5919	2.07 ug/L	92
9) vinyl chloride	5.175	62	5850	2.01 ug/L	99
10) bromomethane	5.855	94	3607	2.22 ug/L	98
11) chloroethane	6.043	64	3484	2.12 ug/L	90
13) trichlorofluoromethane	6.561	101	6236	2.02 ug/L	97
14) pentane	6.649	43	6981	2.07 ug/L	98
15) ethyl ether	6.953	74	2936	2.15 ug/L	89
16) acrolein	7.183	56	1111493	2232.05 ug/L	98
18) 2-chloropropane	7.157	43	9200	2.29 ug/L #	1
19) 1,1-dichloroethene	7.387	96	4360	2.25 ug/L	93
21) allyl chloride	7.904	41	11068	2.33 ug/L	92
22) acetonitrile	7.815	40	2440m	18.00 ug/L	
24) iodomethane	7.658	142	7130	2.07 ug/L	98
26) carbon disulfide	7.805	76	14295	2.14 ug/L	98
27) methylene chloride	8.072	84	5234	2.10 ug/L	92
28) 1-chloropropane	8.129	42	9096	2.26 ug/L	99
29) methyl acetate	7.878	43	4554	2.25 ug/L	86
30) methyl tert butyl ether	8.432	73	13550	2.20 ug/L	96
31) trans-1,2-dichloroethene	8.458	96	4336	2.15 ug/L	93
32) di-isopropyl ether	9.033	45	14937	2.18 ug/L	98
33) ethyl tert-butyl ether	9.488	59	14399	2.10 ug/L	98
34) 2-butanone	9.708	72	498m	1.82 ug/L	
35) 1,1-dichloroethane	9.013	63	7759	2.15 ug/L	97
36) chloroprene	9.133	53	6271	2.19 ug/L	97
37) acrylonitrile	8.375	53	9387	10.54 ug/L	98
38) vinyl acetate	8.997	86	806	1.99 ug/L	87
39) ethyl acetate	9.724	45	657	2.09 ug/L	47
40) 2,2-dichloropropane	9.771	77	5794	2.29 ug/L	94
41) cis-1,2-dichloroethene	9.734	96	4700	2.18 ug/L	98
42) propionitrile	9.776	54	7254	20.67 ug/L	96
43) bromochloromethane	10.037	128	2064	2.10 ug/L	91
44) tetrahydrofuran	10.089	72	757	2.30 ug/L #	59
45) chloroform	10.089	83	7084	2.13 ug/L	97
48) freon 113	7.366	151	2686	2.08 ug/L	99
49) methacrylonitrile	9.969	41	3281	2.18 ug/L	96
50) t-butyl formate	10.163	59	4349	2.17 ug/L	88
51) 1,1,1-trichloroethane	10.387	97	6095	2.09 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:41:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.863	73	14136	2.09 ug/L	98
54) cyclohexane	10.482	84	6487	2.11 ug/L	92
55) tert amyl alcohol	10.649	55	1103	11.96 ug/L	90
56) 2,2,4-trimethylpentane	10.863	57	15795	2.14 ug/L	92
57) epichlorohydrin	12.432	57	2798	11.12 ug/L	99
58) n-butyl alcohol	11.255	56	7777	102.02 ug/L	91
59) carbon tetrachloride	10.591	117	5462	2.14 ug/L	96
60) 1,1-dichloropropene	10.555	75	5657	2.15 ug/L	98
61) hexane	8.798	57	5410	2.23 ug/L	95
62) benzene	10.816	78	16711	2.13 ug/L	97
63) heptane	11.015	57	2935	2.16 ug/L	99
64) isopropyl acetate	10.727	43	9235	2.15 ug/L	95
65) 1,2-dichloroethane	10.801	62	5509	2.09 ug/L	96
66) Ethyl Acrylate	11.517	55	5792	1.95 ug/L #	91
67) trichloroethene	11.522	95	3948	2.04 ug/L	90
68) 2-nitropropane	12.311	43	11908	2.06 ug/L	97
69) 2-chloroethyl vinyl ether	12.311	63	14479	10.14 ug/L	98
70) methyl methacrylate	11.789	100	1004	1.82 ug/L	91
71) tert-amyl ethyl ether	11.710	87	5958	2.06 ug/L	94
72) 1,2-dichloropropane	11.783	63	4300	2.04 ug/L	98
73) methylcyclohexane	11.783	83	6934	2.12 ug/L	98
74) dibromomethane	11.925	93	2678	2.16 ug/L	96
75) bromodichloromethane	12.060	83	5213	2.03 ug/L	95
76) cis-1,3-dichloropropene	12.541	75	6727	2.02 ug/L	95
78) 4-methyl-2-pentanone	12.656	58	1919	2.08 ug/L #	87
79) toluene	12.954	92	10246	2.09 ug/L	99
80) 3-methyl-1-butanol	12.641	70	2814	39.46 ug/L	88
81) trans-1,3-dichloropropene	13.132	75	6372	2.03 ug/L	95
82) ethyl methacrylate	13.143	69	5809	1.98 ug/L	97
83) 1,1,2-trichloroethane	13.362	83	3039	1.96 ug/L	98
84) 2-hexanone	13.571	58	1723	2.05 ug/L	82
86) tetrachloroethene	13.587	166	4731	2.15 ug/L	91
87) 1,3-dichloropropane	13.561	76	6640	2.06 ug/L	97
88) butyl acetate	13.655	56	3055	2.16 ug/L	96
89) 3,3-dimethyl-1-butanol	13.733	57	5192	20.42 ug/L	94
90) dibromochloromethane	13.848	129	4081	2.00 ug/L	94
91) 1,2-dibromoethane	14.021	107	3773	1.99 ug/L	98
92) chlorobenzene	14.544	112	11128	2.04 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.601	131	3958	1.96 ug/L	90
94) ethylbenzene	14.617	91	20135	2.13 ug/L	98
95) m,p-xylene	14.737	106	15136	4.01 ug/L	99
96) o-xylene	15.197	106	7453	1.99 ug/L	82
97) styrene	15.202	104	12398	1.97 ug/L	99
98) bromoform	15.469	173	2873	1.82 ug/L	92
100) isopropylbenzene	15.584	105	19814	2.13 ug/L	98
102) bromobenzene	16.018	156	5279	2.09 ug/L	91
103) cyclohexanone	15.746	55	1634	20.59 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.877	83	5816	2.03 ug/L	94
105) trans-1,4-dichloro-2-b...	15.934	53	1597	2.04 ug/L	93
106) 1,2,3-trichloropropane	15.971	110	1683	2.07 ug/L #	73
107) n-propylbenzene	16.039	91	23218	2.09 ug/L	100
108) p-ethyltoluene	16.154	105	18846	2.12 ug/L	99
109) 2-chlorotoluene	16.196	126	4709	2.04 ug/L	96
110) 4-chlorotoluene	16.306	91	14825	2.05 ug/L	99
111) 1,3,5-trimethylbenzene	16.206	105	17871	2.07 ug/L	96
112) tert-butylbenzene	16.604	119	15176	2.09 ug/L	98
113) pentachloroethane	16.672	167	3154	1.95 ug/L	94
114) 1,2,4-trimethylbenzene	16.645	105	18979	1.97 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:41:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
115) sec-butylbenzene	16.844	105	22559	2.11 ug/L	97
116) 1,3-dichlorobenzene	17.032	146	10233	2.05 ug/L	98
117) p-isopropyltoluene	16.975	119	18524	2.09 ug/L	98
118) 1,4-dichlorobenzene	17.126	146	10366	1.99 ug/L	97
119) Benzyl Chloride	17.247	91	10144	2.13 ug/L	98
120) p-diethylbenzene	17.393	119	11366	2.04 ug/L	97
121) 1,2-dichlorobenzene	17.555	146	10146	2.00 ug/L	92
122) n-butylbenzene	17.435	92	9863	2.03 ug/L	99
123) 1,2,4,5-tetramethylben...	18.261	119	17452	2.13 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.402	75	1227	2.03 ug/L	93
125) 1,3,5-trichlorobenzene	18.632	180	8029	2.08 ug/L	93
126) 1,2,4-trichlorobenzene	19.369	180	6183	1.97 ug/L	96
127) hexachlorobutadiene	19.516	225	4355	2.30 ug/L	99
128) naphthalene	19.688	128	14408	1.99 ug/L	99
129) 1,2,3-trichlorobenzene	19.965	180	5485	2.07 ug/L	98
130) hexachloroethane	17.869	119	3308	1.97 ug/L	98

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

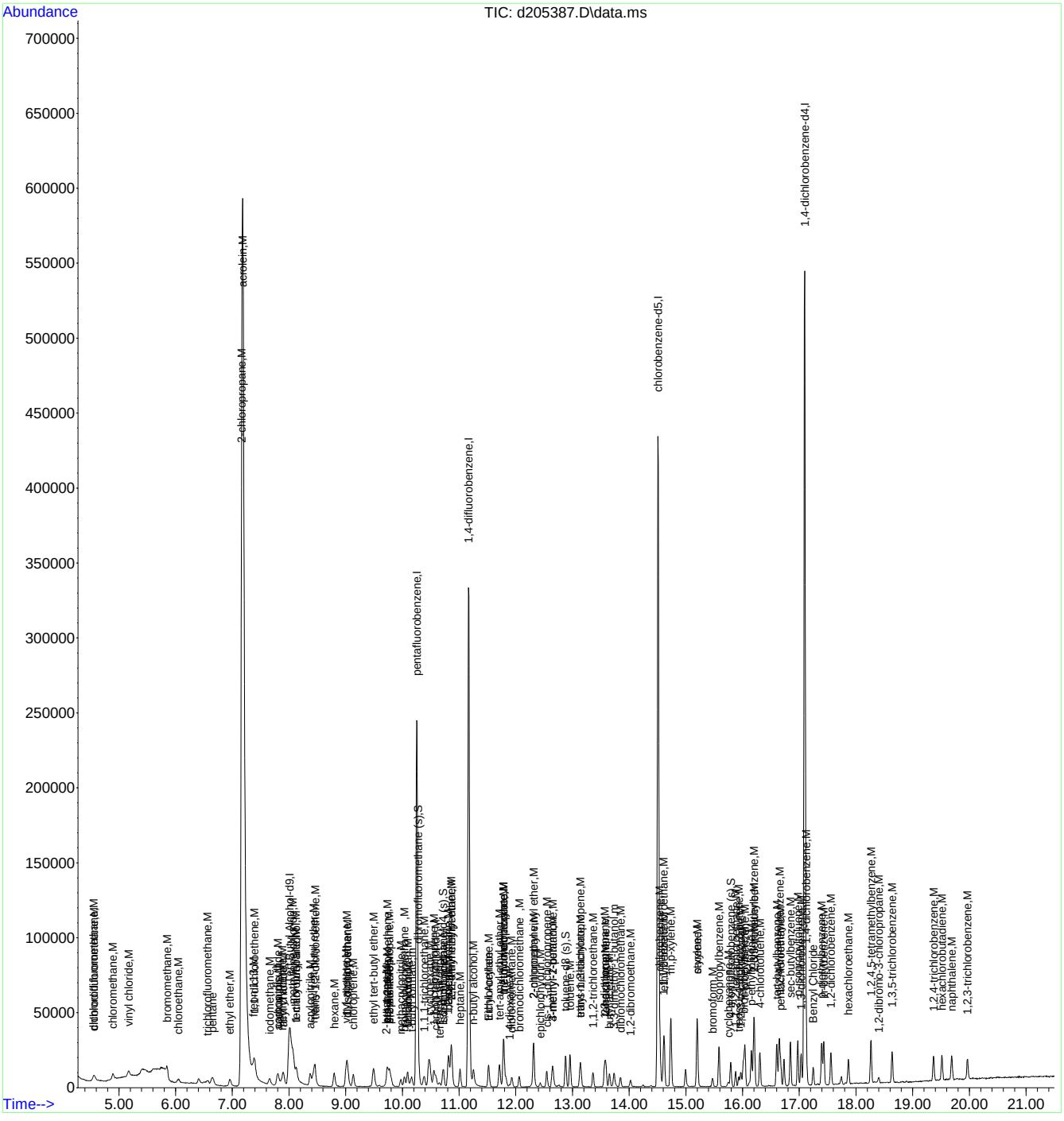
7.7.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:41:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

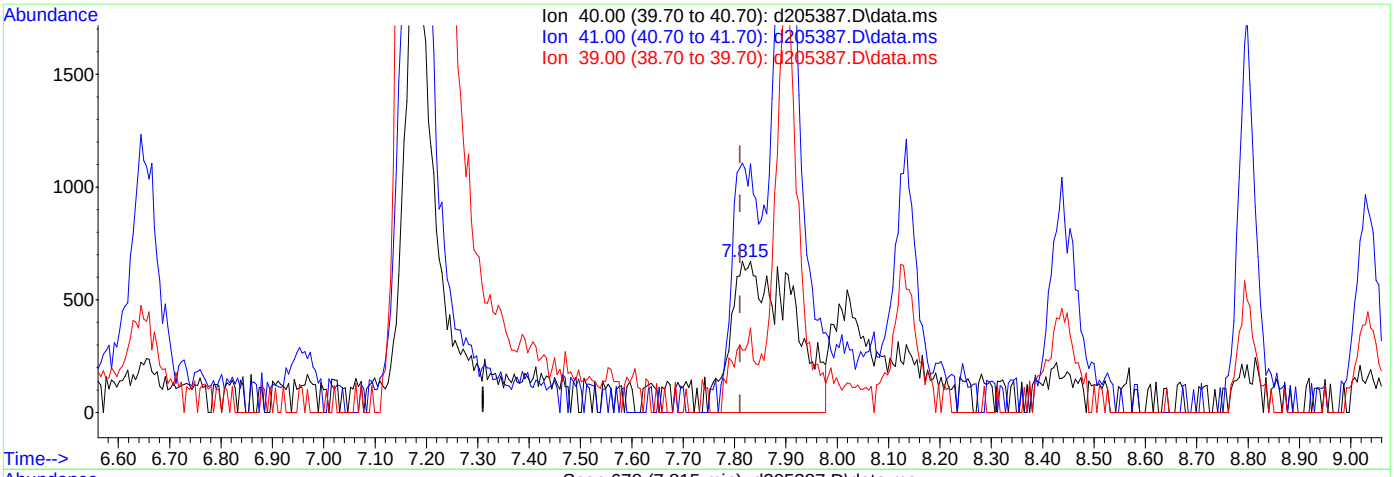
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205387.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 21:28	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

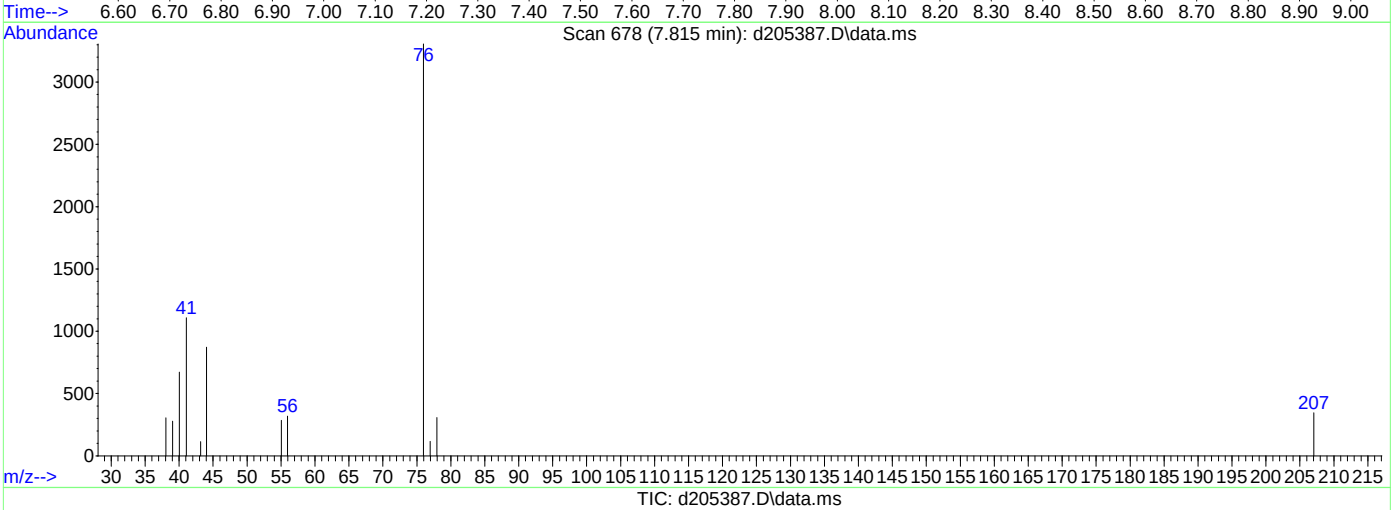
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak
2-Butanone (MEK)	78-93-3		9.71	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:30:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205387.D\data.ms

(22) acetonitrile (M)

7.815min (+0.005) 41.72ug/L

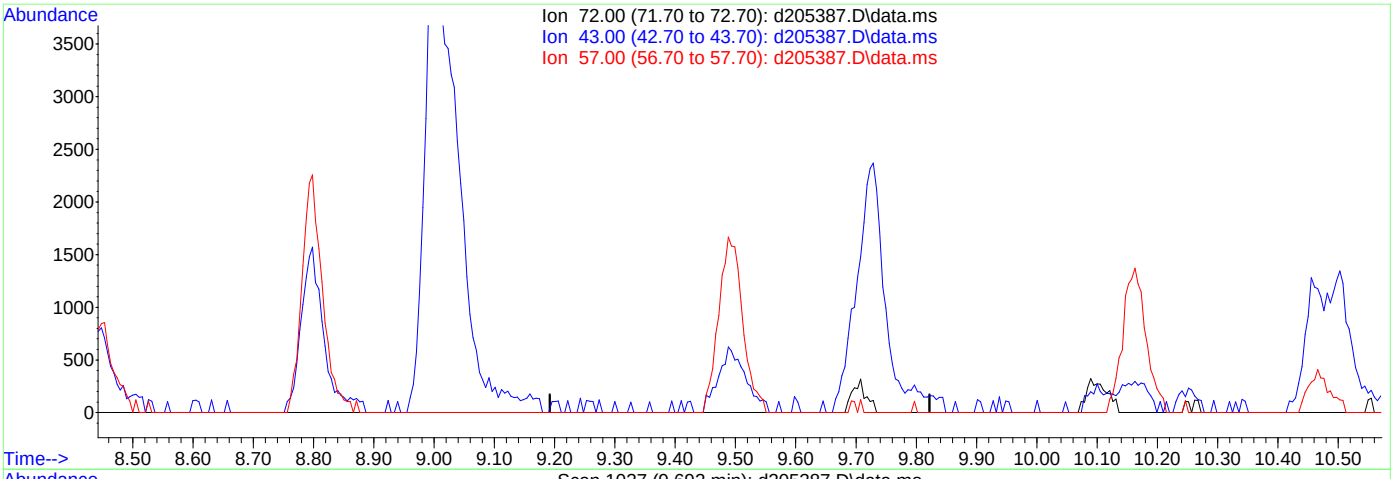
response 5655

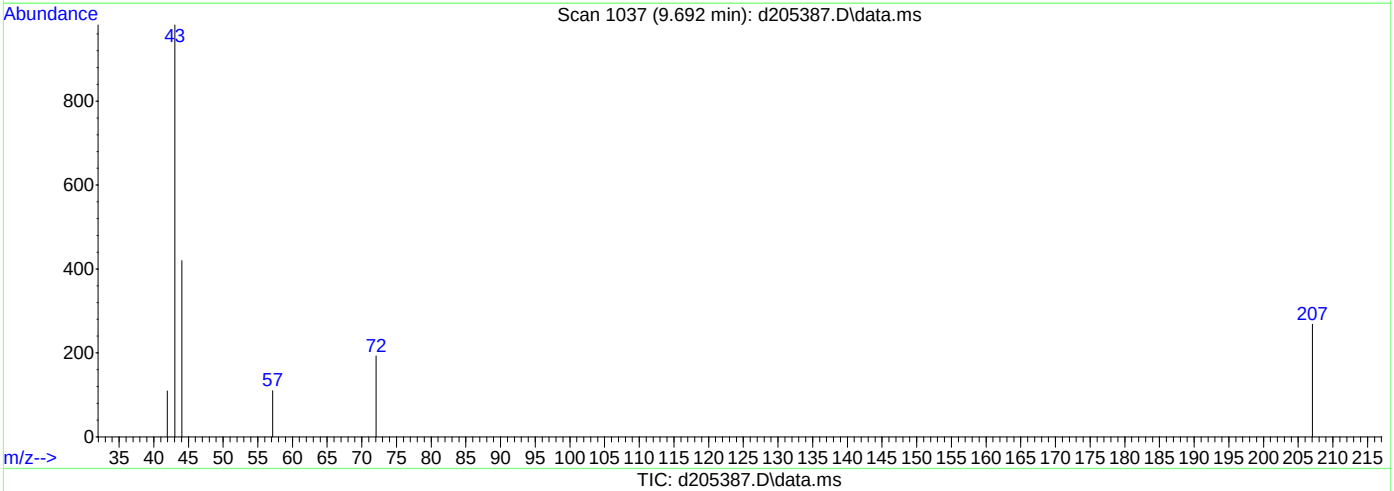
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	164.73
39.00	37.10	24.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:30:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205387.D\data.ms

(34) 2-butanone (M)

9.692min (-9.692) 0.00ug/L

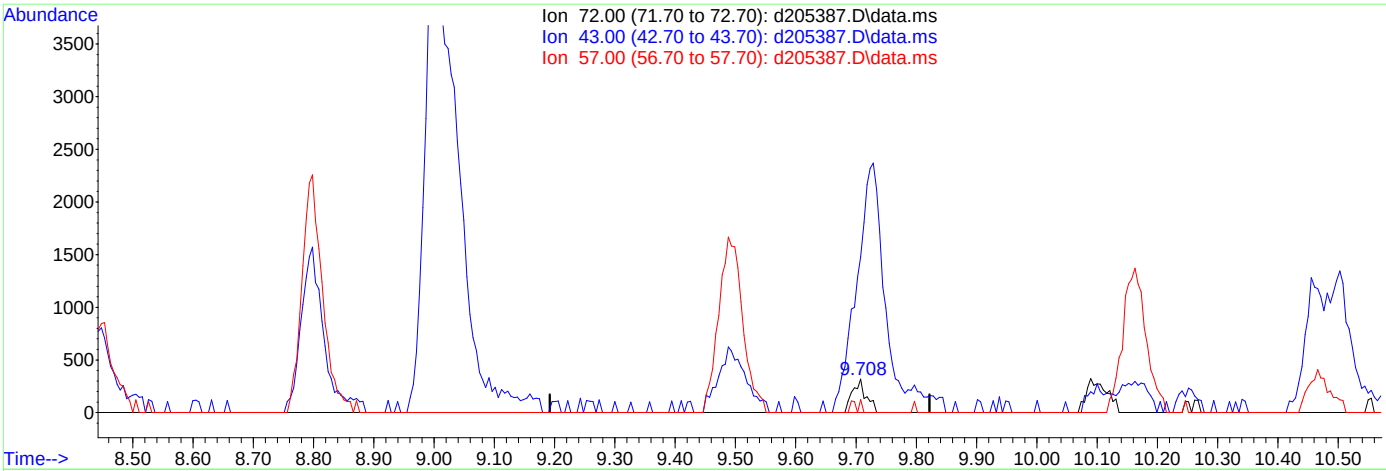
response 0

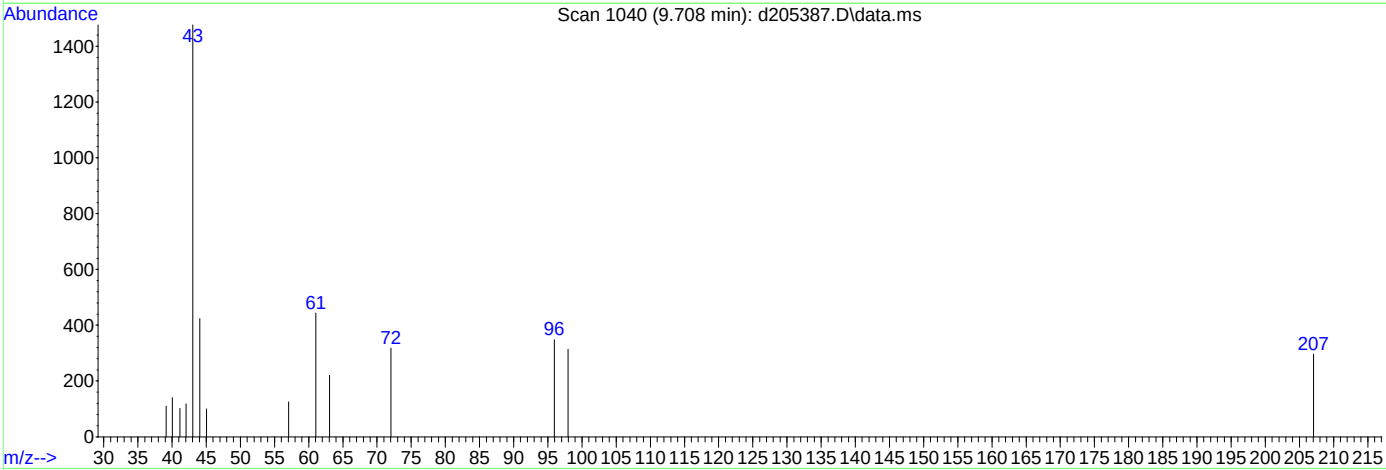
Ion	Exp%	Act%
72.00	100	0.00
43.00	0.00	0.00
57.00	29.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:30:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205387.D\data.ms

(34) 2-butanone (M)

9.708min (+0.016) 1.82ug/L m

response 498

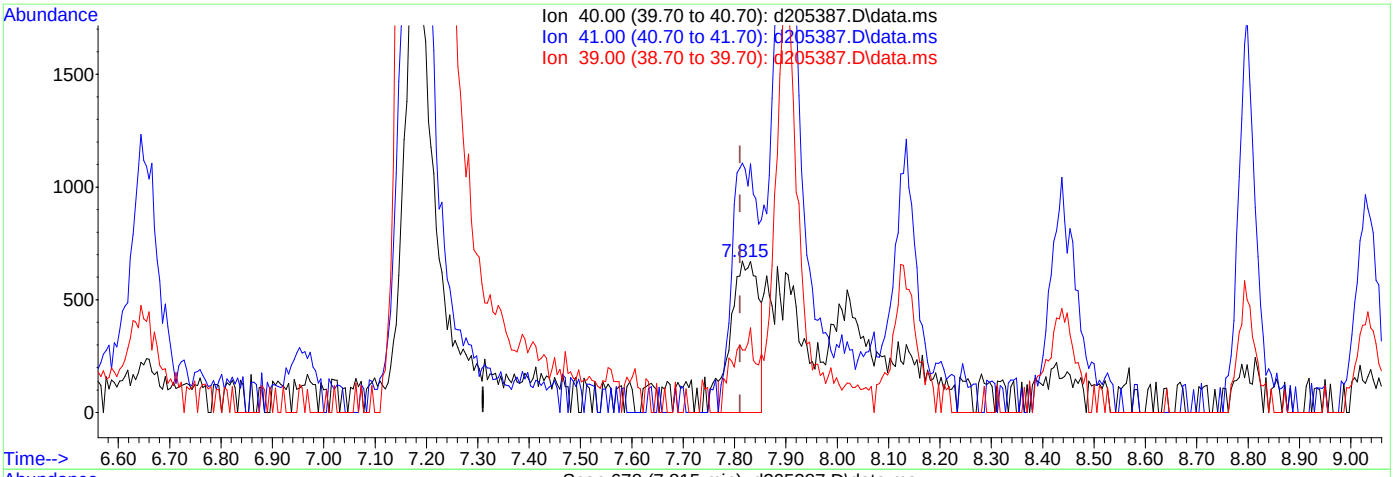
Ion	Exp%	Act%
72.00	100	100
43.00	0.00	0.00
57.00	29.00	0.00#
0.00	0.00	0.00

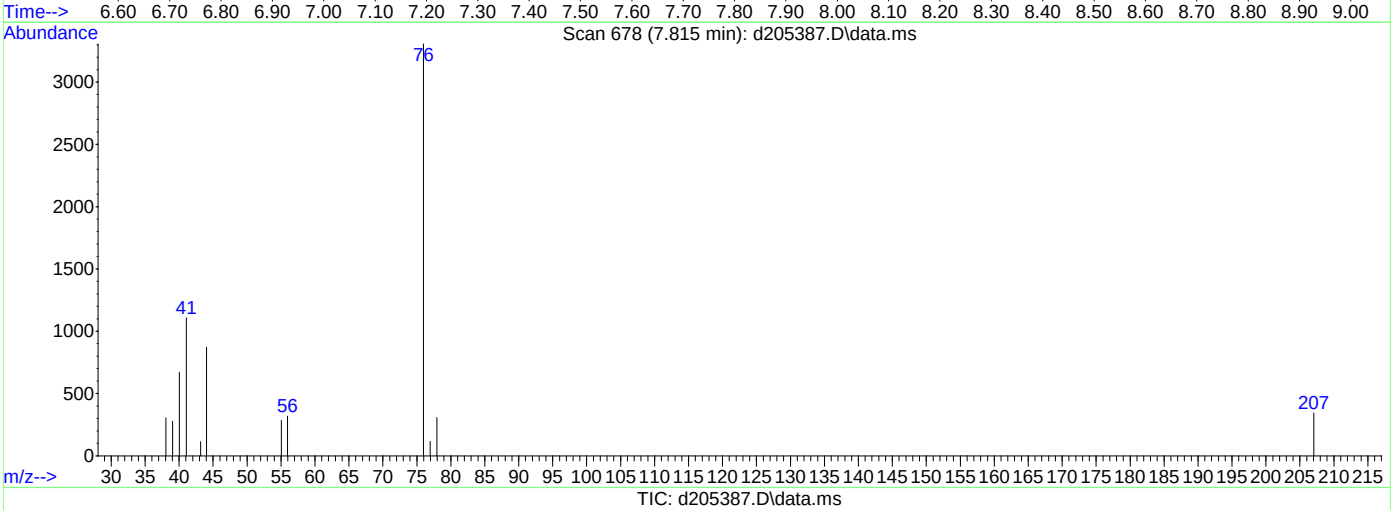
ACCUTEST LABORATORIES JB29314

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205387.D
Acq On : 11 Feb 2013 9:28 pm
Operator : EmilyT
Sample : IC8379-2
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 08:41:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration





TIC: d205387.D\data.ms

(22) acetonitrile (M)

7.815min (+0.005) 18.00ug/L m

response 2440

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	164.73
39.00	37.10	41.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On : 11 Feb 2013 9:57 pm
Operator : EmilyT
Sample : IC8379-5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 08:41:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.005	65	130864	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	189319	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	294133	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	264216	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.097	152	159138	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	9500	5.21 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.42%#		
47) 1,2-dichloroethane-d4 (s)	10.713	65	11554	5.40 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 10.80%#		
77) toluene-d8 (s)	12.878	98	36171	5.28 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 10.56%#		
101) 4-bromofluorobenzene (s)	15.790	95	14732	5.17 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 10.34%#		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	2959	118.91 ug/L #	80
3) tertiary butyl alcohol	8.125	59	6997	25.09 ug/L #	83
6) chlorodifluoromethane	4.570	51	10761	5.37 ug/L	98
7) dichlorodifluoromethane	4.555	85	12872	5.08 ug/L	99
8) chloromethane	4.900	50	14543	5.15 ug/L	98
9) vinyl chloride	5.177	62	14837	5.18 ug/L	99
10) bromomethane	5.862	94	8647	5.39 ug/L	97
11) chloroethane	6.055	64	8559	5.29 ug/L	99
13) trichlorofluoromethane	6.562	101	15291	5.03 ug/L	99
14) pentane	6.656	43	16927	5.08 ug/L	97
15) ethyl ether	6.954	74	6220	4.61 ug/L	90
16) acrolein	7.179	56	27312	55.61 ug/L	97
18) 2-chloropropane	7.158	43	18830	4.74 ug/L	91
19) 1,1-dichloroethene	7.393	96	10199	5.33 ug/L	97
20) acetone	7.399	58	1093	5.16 ug/L	88
21) allyl chloride	7.906	41	24586	5.25 ug/L	96
22) acetonitrile	7.817	40	5505m	41.18 ug/L	
24) iodomethane	7.660	142	18077	5.33 ug/L	95
26) carbon disulfide	7.801	76	35692	5.42 ug/L	97
27) methylene chloride	8.073	84	12116	4.93 ug/L	91
28) 1-chloropropane	8.131	42	19248	4.85 ug/L	100
29) methyl acetate	7.874	43	10214	5.13 ug/L	94
30) methyl tert butyl ether	8.439	73	34081	5.62 ug/L	97
31) trans-1,2-dichloroethene	8.465	96	10555	5.30 ug/L	96
32) di-isopropyl ether	9.024	45	35418	5.24 ug/L	89
33) ethyl tert-butyl ether	9.495	59	35466	5.25 ug/L	96
34) 2-butanone	9.699	72	1262	4.67 ug/L #	90
35) 1,1-dichloroethane	9.014	63	18857	5.29 ug/L	98
36) chloroprene	9.129	53	14927	5.27 ug/L	94
37) acrylonitrile	8.371	53	22888	26.05 ug/L	97
38) vinyl acetate	8.998	86	2083	5.23 ug/L	74
39) ethyl acetate	9.725	45	1737	5.61 ug/L	68
40) 2,2-dichloropropane	9.772	77	14119	5.66 ug/L	92
41) cis-1,2-dichloroethene	9.736	96	11093	5.22 ug/L	98
42) propionitrile	9.777	54	17680	51.07 ug/L	89
43) bromochloromethane	10.039	128	5204	5.38 ug/L	99
44) tetrahydrofuran	10.101	72	1563	4.81 ug/L #	78
45) chloroform	10.091	83	17072	5.21 ug/L	96
48) freon 113	7.372	151	6566	5.16 ug/L	90
49) methacrylonitrile	9.976	41	7536	5.07 ug/L	95
50) t-butyl formate	10.164	59	10715	5.42 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On : 11 Feb 2013 9:57 pm
Operator : EmilyT
Sample : IC8379-5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 08:41:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.384	97	15274	5.32 ug/L	98
52) tert-amyl methyl ether	10.860	73	33900	5.08 ug/L	99
54) cyclohexane	10.478	84	15872	5.21 ug/L	94
55) tert amyl alcohol	10.650	55	2668	29.16 ug/L	95
56) 2,2,4-trimethylpentane	10.865	57	35549	4.85 ug/L	96
57) epichlorohydrin	12.433	57	6242	24.99 ug/L	97
58) n-butyl alcohol	11.252	56	18261	241.42 ug/L	96
59) carbon tetrachloride	10.593	117	13144	5.19 ug/L	97
60) 1,1-dichloropropene	10.556	75	13848	5.29 ug/L	97
61) hexane	8.794	57	11991	4.98 ug/L	97
62) benzene	10.818	78	40520	5.20 ug/L	98
63) heptane	11.016	57	6519	4.83 ug/L	97
64) isopropyl acetate	10.724	43	21988	5.16 ug/L	96
65) 1,2-dichloroethane	10.802	62	13784	5.26 ug/L	99
66) Ethyl Acrylate	11.513	55	13970	4.74 ug/L	98
67) trichloroethene	11.523	95	9817	5.12 ug/L	99
68) 2-nitropropane	12.313	43	27773	4.83 ug/L	99
69) 2-chloroethyl vinyl ether	12.313	63	35531	25.08 ug/L	98
70) methyl methacrylate	11.785	100	2697	4.93 ug/L	91
71) tert-amyl ethyl ether	11.712	87	14775	5.15 ug/L	95
72) 1,2-dichloropropane	11.785	63	11028	5.26 ug/L	99
73) methylcyclohexane	11.790	83	16098	4.96 ug/L	94
74) dibromomethane	11.931	93	6389	5.18 ug/L	94
75) bromodichloromethane	12.062	83	12796	5.02 ug/L	99
76) cis-1,3-dichloropropene	12.548	75	16792	5.09 ug/L	95
78) 4-methyl-2-pentanone	12.658	58	4452	4.86 ug/L #	85
79) toluene	12.956	92	24689	5.08 ug/L	95
80) 3-methyl-1-butanol	12.642	70	7252	102.49 ug/L	99
81) trans-1,3-dichloropropene	13.128	75	15683	5.03 ug/L	98
82) ethyl methacrylate	13.144	69	13827	4.74 ug/L	98
83) 1,1,2-trichloroethane	13.364	83	7545	4.91 ug/L	97
84) 2-hexanone	13.568	58	4078	4.89 ug/L	95
86) tetrachloroethene	13.589	166	11499	5.32 ug/L	98
87) 1,3-dichloropropane	13.568	76	16131	5.09 ug/L	94
88) butyl acetate	13.651	56	7080	5.07 ug/L	97
89) 3,3-dimethyl-1-butanol	13.735	57	12890	51.48 ug/L	96
90) dibromochloromethane	13.850	129	9851	4.89 ug/L	97
91) 1,2-dibromoethane	14.022	107	9739	5.22 ug/L	100
92) chlorobenzene	14.545	112	27732	5.17 ug/L	95
93) 1,1,1,2-tetrachloroethane	14.603	131	10147	5.11 ug/L	98
94) ethylbenzene	14.613	91	47725	5.11 ug/L	98
95) m,p-xylene	14.733	106	36813	9.90 ug/L	98
96) o-xylene	15.199	106	18564	5.03 ug/L	98
97) styrene	15.199	104	31827	5.12 ug/L	97
98) bromoform	15.465	173	7458	4.79 ug/L	95
100) isopropylbenzene	15.586	105	49362	5.19 ug/L	98
102) bromobenzene	16.014	156	13306	5.15 ug/L	98
103) cyclohexanone	15.742	55	4171	51.43 ug/L	94
104) 1,1,2,2-tetrachloroethane	15.878	83	14455	4.93 ug/L	100
105) trans-1,4-dichloro-2-b...	15.931	53	3965	4.96 ug/L	82
106) 1,2,3-trichloropropane	15.967	110	4143	4.98 ug/L #	81
107) n-propylbenzene	16.040	91	58102	5.13 ug/L	100
108) p-ethyltoluene	16.156	105	44827	4.94 ug/L	99
109) 2-chlorotoluene	16.197	126	11955	5.06 ug/L	99
110) 4-chlorotoluene	16.307	91	37282	5.04 ug/L	98
111) 1,3,5-trimethylbenzene	16.208	105	42723	4.83 ug/L	97
112) tert-butylbenzene	16.605	119	37284	5.03 ug/L	100
113) pentachloroethane	16.673	167	8238	4.98 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On : 11 Feb 2013 9:57 pm
Operator : EmilyT
Sample : IC8379-5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 08:41:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.647	105	44442	4.52 ug/L	98
115) sec-butylbenzene	16.846	105	56168	5.14 ug/L	98
116) 1,3-dichlorobenzene	17.034	146	25649	5.03 ug/L	96
117) p-isopropyltoluene	16.976	119	46273	5.11 ug/L	98
118) 1,4-dichlorobenzene	17.123	146	26205	4.93 ug/L	96
119) Benzyl Chloride	17.243	91	23822	4.90 ug/L	100
120) p-diethylbenzene	17.395	119	27759	4.87 ug/L	99
121) 1,2-dichlorobenzene	17.557	146	25358	4.90 ug/L	97
122) n-butylbenzene	17.431	92	25370	5.10 ug/L	99
123) 1,2,4,5-tetramethylben...	18.262	119	43263	5.16 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.404	75	2981	4.82 ug/L	89
125) 1,3,5-trichlorobenzene	18.639	180	20247	5.13 ug/L	98
126) 1,2,4-trichlorobenzene	19.371	180	15760	4.92 ug/L	97
127) hexachlorobutadiene	19.517	225	10382	5.37 ug/L	99
128) naphthalene	19.684	128	36455	4.92 ug/L	100
129) 1,2,3-trichlorobenzene	19.967	180	14242	5.26 ug/L	97
130) hexachloroethane	17.865	119	8385	4.89 ug/L	99

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

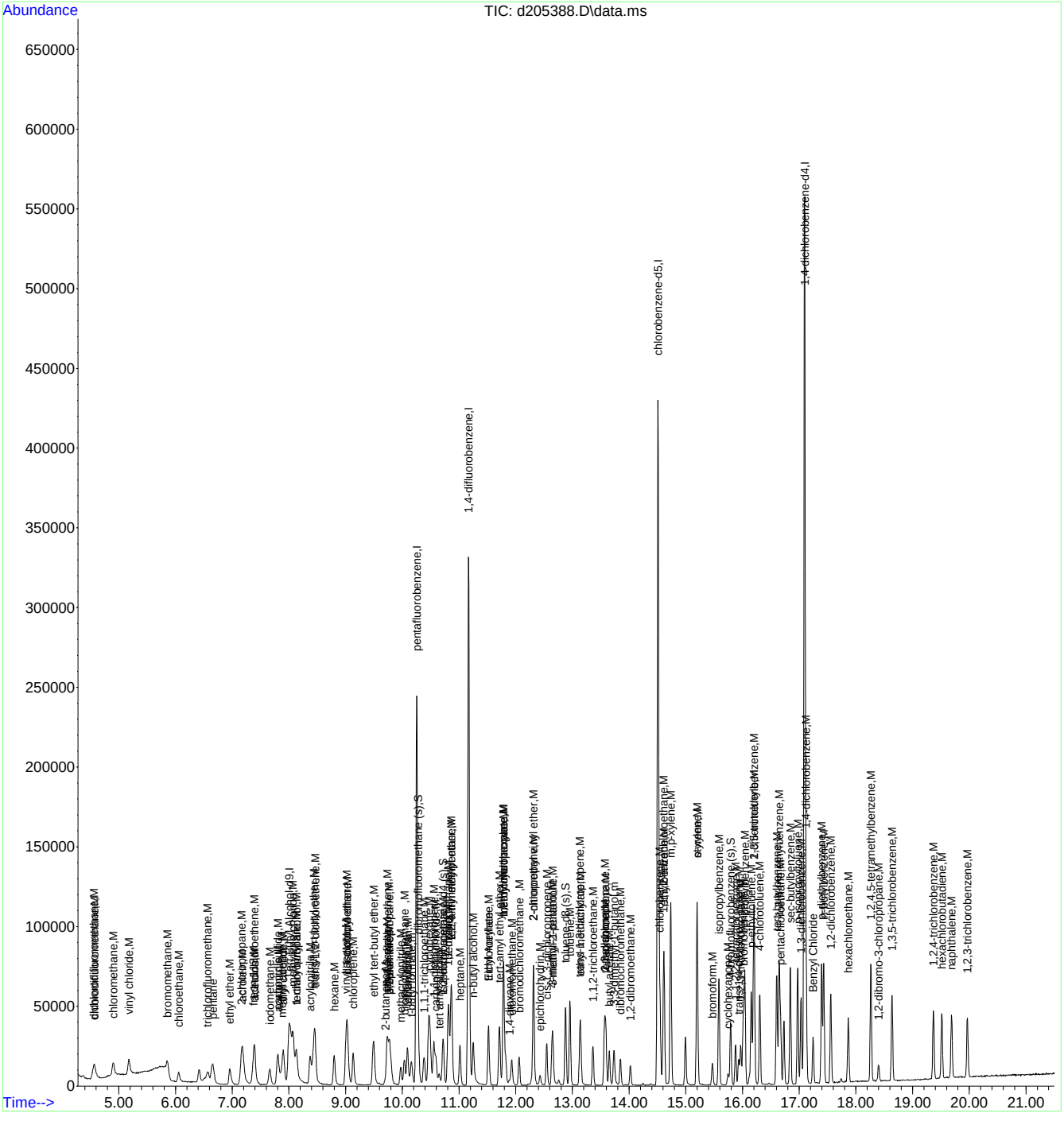
7.7.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On : 11 Feb 2013 9:57 pm
Operator : EmilyT
Sample : IC8379-5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 08:41:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



Manual Integration Approval Summary

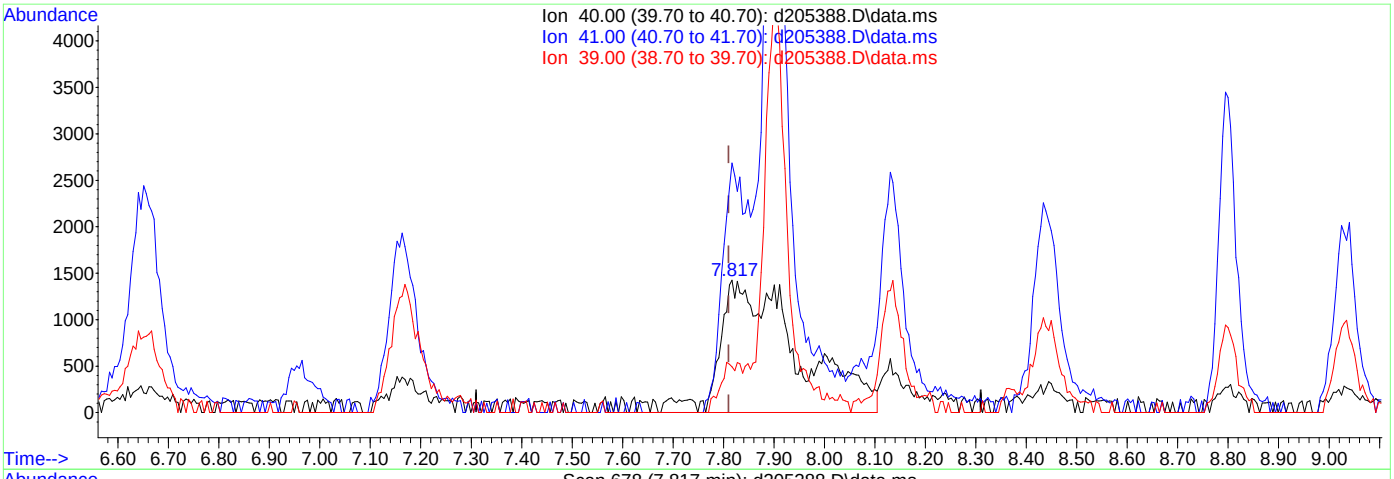
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205388.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 21:57	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

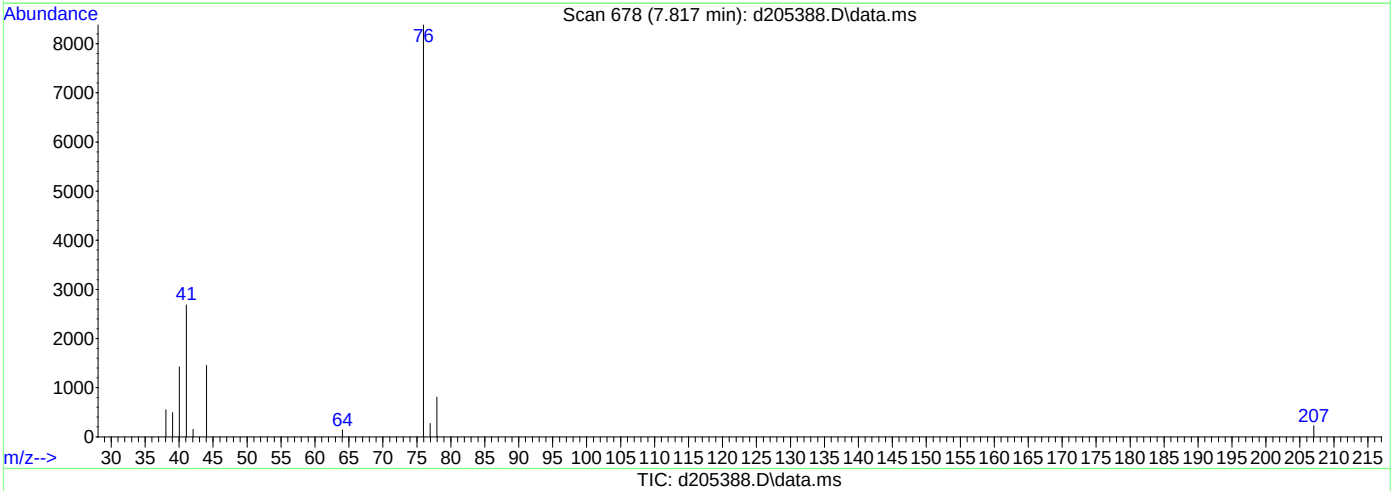
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On : 11 Feb 2013 9:57 pm
Operator : EmilyT
Sample : IC8379-5
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 08:32:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205388.D\data.ms

(22) acetonitrile (M)

7.817min (+0.007) 110.41ug/L

response 14760

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	179.52
39.00	37.10	34.50
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205388.D
Acq On    : 11 Feb 2013   9:57 pm
Operator  : EmilyT
Sample    : IC8379-5
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Feb 12 08:32:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration
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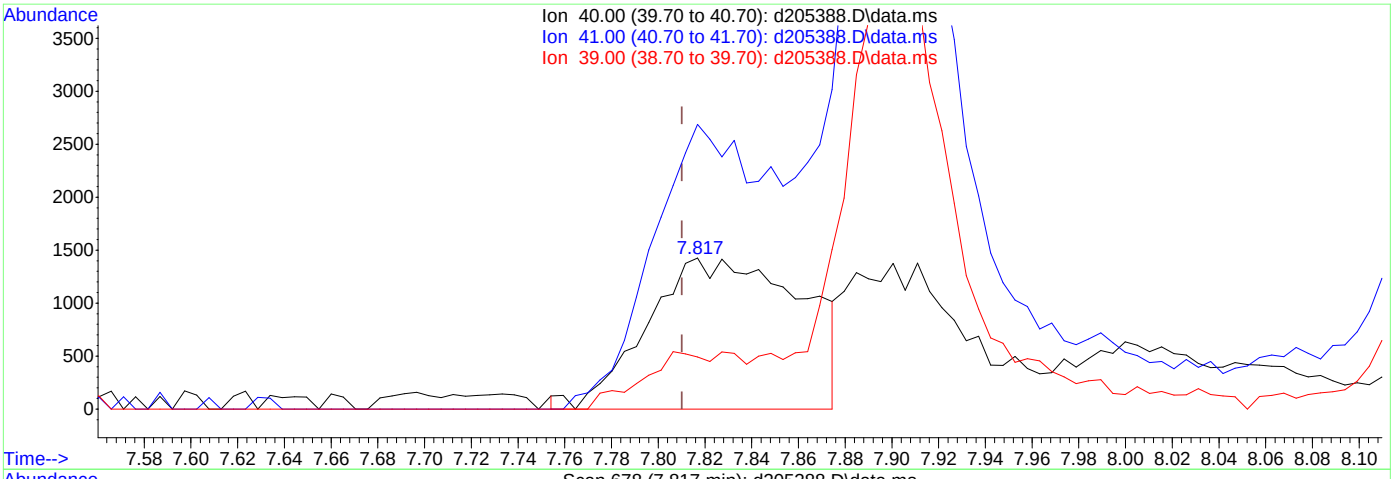
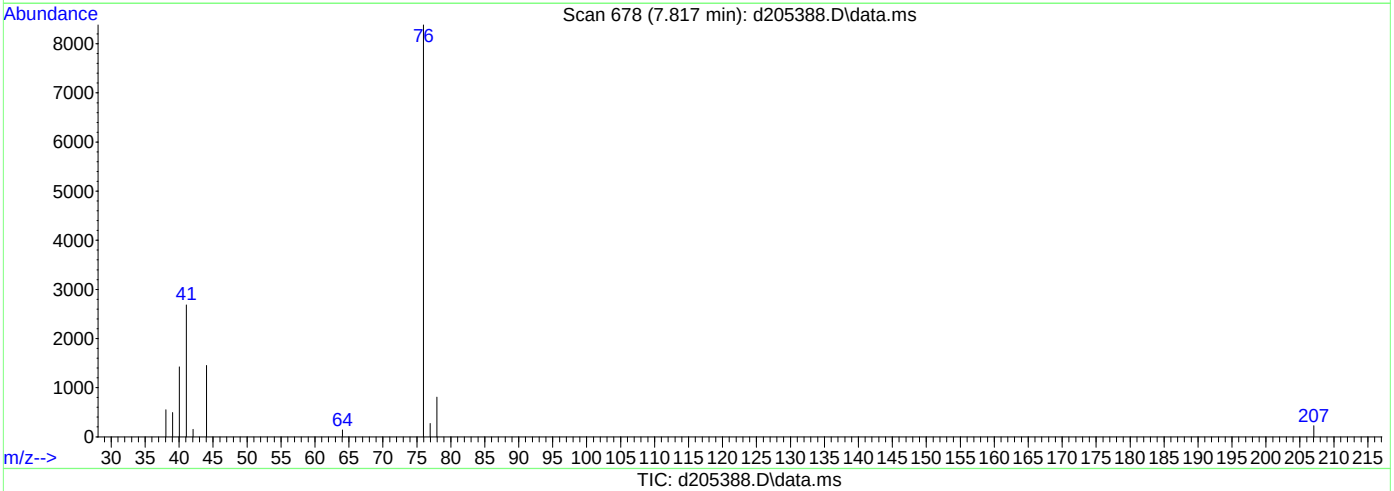




TIC: d205388.D\data.ms

(22) acetonitrile (M)

7.817min (+0.007) 48.80ug/L m

response 6524

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	188.43
39.00	37.10	34.50
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 08:45:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.004	65	125333	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	194310	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	295027	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	264425	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	160239	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.289	113	18193	9.72 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 19.44%#		
47) 1,2-dichloroethane-d4 (s)	10.713	65	22143	10.08 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 20.16%#		
77) toluene-d8 (s)	12.877	98	70174	10.21 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 20.42%#		
101) 4-bromofluorobenzene (s)	15.789	95	27760	9.67 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 19.34%#		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.889	88	7391	310.11 ug/L	97
3) tertiary butyl alcohol	8.130	59	15169	56.80 ug/L #	78
6) chlorodifluoromethane	4.564	51	23981	11.66 ug/L	98
7) dichlorodifluoromethane	4.554	85	26408	10.15 ug/L	97
8) chloromethane	4.904	50	27437	9.47 ug/L	98
9) vinyl chloride	5.181	62	28728	9.77 ug/L	99
10) bromomethane	5.866	94	16891	10.26 ug/L	98
11) chloroethane	6.049	64	15604	9.40 ug/L	99
13) trichlorofluoromethane	6.567	101	31812	10.20 ug/L	99
14) pentane	6.656	43	32680	9.56 ug/L	97
15) ethyl ether	6.964	74	11475	8.29 ug/L	93
16) acrolein	7.178	56	47055	93.35 ug/L	99
18) 2-chloropropane	7.158	43	32284	7.92 ug/L	93
19) 1,1-dichloroethene	7.393	96	17502	8.90 ug/L	97
20) acetone	7.403	58	1942	8.93 ug/L	97
21) allyl chloride	7.900	41	42388	8.82 ug/L	97
22) acetonitrile	7.827	40	11854m	86.40 ug/L	
24) iodomethane	7.659	142	32147	9.23 ug/L	98
26) carbon disulfide	7.801	76	60527	8.95 ug/L	97
27) methylene chloride	8.078	84	20138	7.98 ug/L	99
28) 1-chloropropane	8.130	42	34838	8.54 ug/L	95
29) methyl acetate	7.874	43	20496	10.02 ug/L	99
30) methyl tert butyl ether	8.438	73	59606	9.57 ug/L	99
31) trans-1,2-dichloroethene	8.459	96	18253	8.92 ug/L	97
32) di-isopropyl ether	9.029	45	72489	10.45 ug/L	96
33) ethyl tert-butyl ether	9.489	59	74145	10.70 ug/L	98
34) 2-butanone	9.698	72	2565	9.24 ug/L #	81
35) 1,1-dichloroethane	9.013	63	32732	8.95 ug/L	98
36) chloroprene	9.134	53	30746	10.58 ug/L	98
37) acrylonitrile	8.376	53	42076	46.66 ug/L	98
38) vinyl acetate	8.998	86	4334	10.59 ug/L	89
39) ethyl acetate	9.730	45	3388	10.66 ug/L	67
40) 2,2-dichloropropane	9.766	77	23987	9.36 ug/L	97
41) cis-1,2-dichloroethene	9.735	96	19636	9.00 ug/L	99
42) propionitrile	9.777	54	32557	91.62 ug/L	91
43) bromochloromethane	10.033	128	9593	9.66 ug/L	99
44) tetrahydrofuran	10.090	72	3114	9.34 ug/L	97
45) chloroform	10.090	83	30893	9.18 ug/L	98
48) freon 113	7.372	151	14955	11.46 ug/L	96
49) methacrylonitrile	9.970	41	13436	8.82 ug/L	94
50) t-butyl formate	10.158	59	23477	11.58 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 08:45:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.383	97	27136	9.21 ug/L	98
52) tert-amyl methyl ether	10.864	73	70568	10.29 ug/L	98
54) cyclohexane	10.483	84	29333	9.60 ug/L	97
55) tert amyl alcohol	10.650	55	4956	53.99 ug/L	94
56) 2,2,4-trimethylpentane	10.864	57	77463	10.55 ug/L	99
57) epichlorohydrin	12.427	57	13559	54.13 ug/L	91
58) n-butyl alcohol	11.251	56	39549	521.28 ug/L	96
59) carbon tetrachloride	10.592	117	23244	9.15 ug/L	98
60) 1,1-dichloropropene	10.556	75	24151	9.20 ug/L	97
61) hexane	8.794	57	24698	10.23 ug/L	100
62) benzene	10.817	78	71946	9.20 ug/L	98
63) heptane	11.016	57	14644	10.81 ug/L	98
64) isopropyl acetate	10.723	43	45110	10.56 ug/L	99
65) 1,2-dichloroethane	10.801	62	24739	9.42 ug/L	98
66) Ethyl Acrylate	11.512	55	30423	10.29 ug/L	97
67) trichloroethene	11.523	95	17753	9.22 ug/L	91
68) 2-nitropropane	12.312	43	58343	10.12 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	78726	55.39 ug/L	98
70) methyl methacrylate	11.784	100	5623	10.25 ug/L	96
71) tert-amyl ethyl ether	11.711	87	30146	10.48 ug/L	97
72) 1,2-dichloropropane	11.784	63	19263	9.16 ug/L	95
73) methylcyclohexane	11.784	83	35276	10.83 ug/L	98
74) dibromomethane	11.925	93	11849	9.59 ug/L	92
75) bromodichloromethane	12.061	83	23889	9.35 ug/L	99
76) cis-1,3-dichloropropene	12.542	75	30567	9.23 ug/L	99
78) 4-methyl-2-pentanone	12.657	58	8529	9.28 ug/L #	84
79) toluene	12.955	92	44721	9.18 ug/L	96
80) 3-methyl-1-butanol	12.647	70	15400	216.99 ug/L	98
81) trans-1,3-dichloropropene	13.128	75	28730	9.19 ug/L	97
82) ethyl methacrylate	13.144	69	26669	9.12 ug/L	98
83) 1,1,2-trichloroethane	13.363	83	14250	9.25 ug/L	99
84) 2-hexanone	13.567	58	8074	9.64 ug/L	88
86) tetrachloroethene	13.588	166	20383	9.42 ug/L	98
87) 1,3-dichloropropane	13.567	76	30025	9.47 ug/L	98
88) butyl acetate	13.651	56	15533	11.12 ug/L	94
89) 3,3-dimethyl-1-butanol	13.734	57	27416	109.40 ug/L	98
90) dibromochloromethane	13.849	129	18626	9.25 ug/L	98
91) 1,2-dibromoethane	14.022	107	17870	9.57 ug/L	98
92) chlorobenzene	14.545	112	50029	9.31 ug/L	96
93) 1,1,1,2-tetrachloroethane	14.602	131	18757	9.44 ug/L	95
94) ethylbenzene	14.618	91	84725	9.07 ug/L	99
95) m,p-xylene	14.733	106	66511	17.87 ug/L	98
96) o-xylene	15.198	106	33385	9.04 ug/L	96
97) styrene	15.198	104	57480	9.24 ug/L	100
98) bromoform	15.470	173	14443	9.26 ug/L	99
100) isopropylbenzene	15.585	105	88246	9.22 ug/L	99
102) bromobenzene	16.014	156	24109	9.27 ug/L	98
103) cyclohexanone	15.742	55	6624	81.12 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.878	83	26418	8.95 ug/L	98
105) trans-1,4-dichloro-2-b...	15.935	53	7573	9.40 ug/L	97
106) 1,2,3-trichloropropane	15.967	110	7829	9.34 ug/L	88
107) n-propylbenzene	16.040	91	102022	8.94 ug/L	98
108) p-ethyltoluene	16.155	105	90804	9.94 ug/L	98
109) 2-chlorotoluene	16.197	126	22141	9.31 ug/L	93
110) 4-chlorotoluene	16.307	91	67598	9.08 ug/L	98
111) 1,3,5-trimethylbenzene	16.207	105	76798	8.63 ug/L	99
112) tert-butylbenzene	16.605	119	68029	9.11 ug/L	97
113) pentachloroethane	16.672	167	15334	9.21 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 08:45:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.646	105	80003	8.08 ug/L	100
115) sec-butylbenzene	16.845	105	99187	9.01 ug/L	99
116) 1,3-dichlorobenzene	17.033	146	46658	9.09 ug/L	99
117) p-isopropyltoluene	16.976	119	82332	9.03 ug/L	98
118) 1,4-dichlorobenzene	17.122	146	48219	9.00 ug/L	99
119) Benzyl Chloride	17.242	91	52292	10.68 ug/L	99
120) p-diethylbenzene	17.394	119	53983	9.41 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	47451	9.10 ug/L	99
122) n-butylbenzene	17.431	92	44260	8.84 ug/L	95
123) 1,2,4,5-tetramethylben...	18.262	119	87727	10.40 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.398	75	5499	8.84 ug/L	97
125) 1,3,5-trichlorobenzene	18.638	180	36993	9.30 ug/L	98
126) 1,2,4-trichlorobenzene	19.365	180	30471	9.45 ug/L	99
127) hexachlorobutadiene	19.517	225	18623	9.57 ug/L	99
128) naphthalene	19.689	128	72061	9.66 ug/L	100
129) 1,2,3-trichlorobenzene	19.966	180	27426	10.07 ug/L	97
130) hexachloroethane	17.864	119	15817	9.17 ug/L	97

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

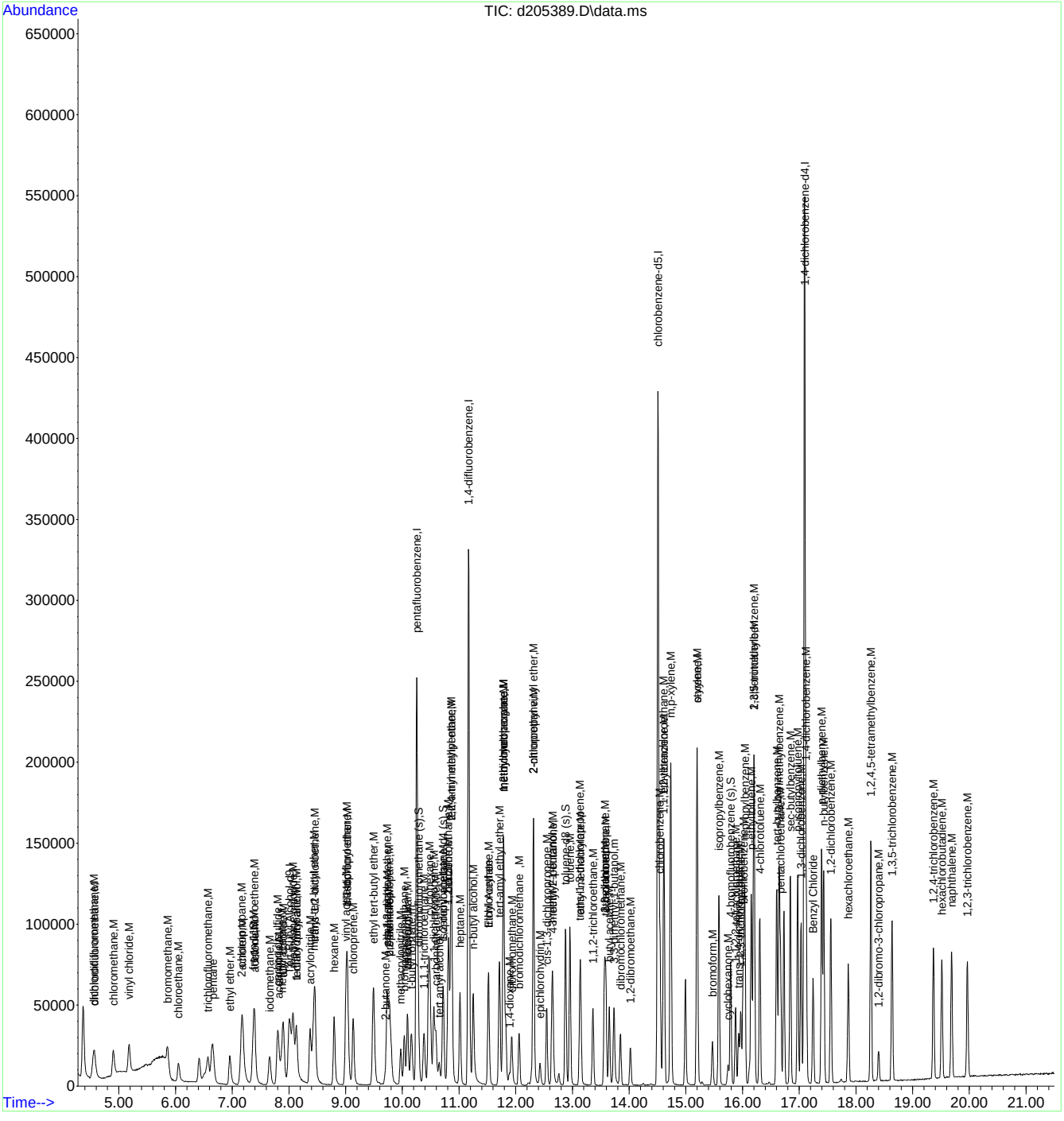
7.7.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 08:45:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



Manual Integration Approval Summary

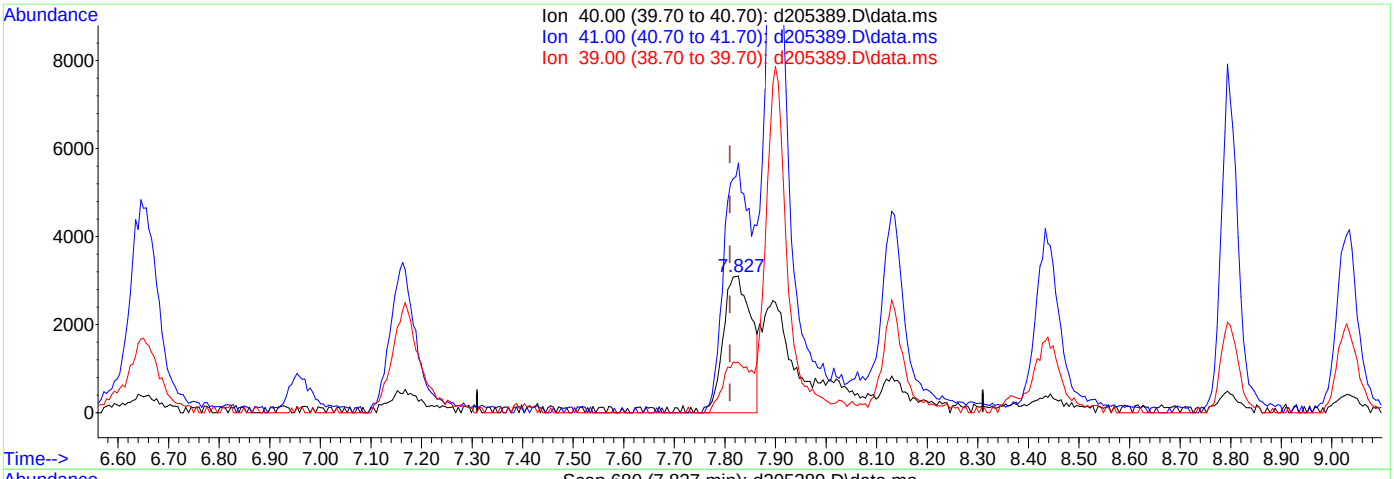
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205389.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 22:27	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

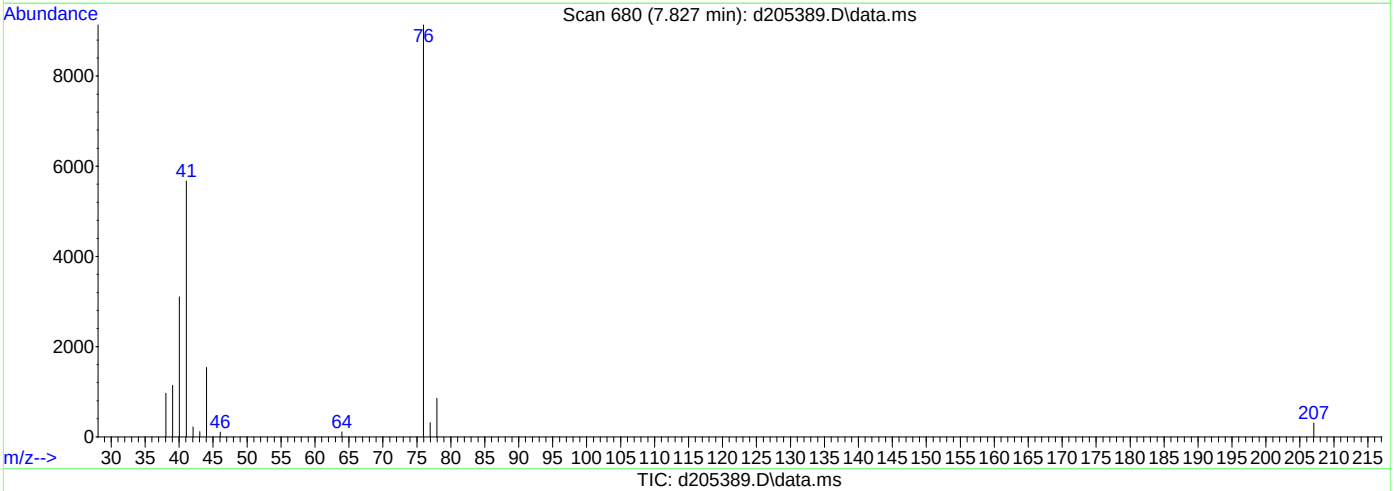
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 08:29:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205389.D\data.ms

(22) acetonitrile (M)

7.827min (+0.017) 86.40ug/L m

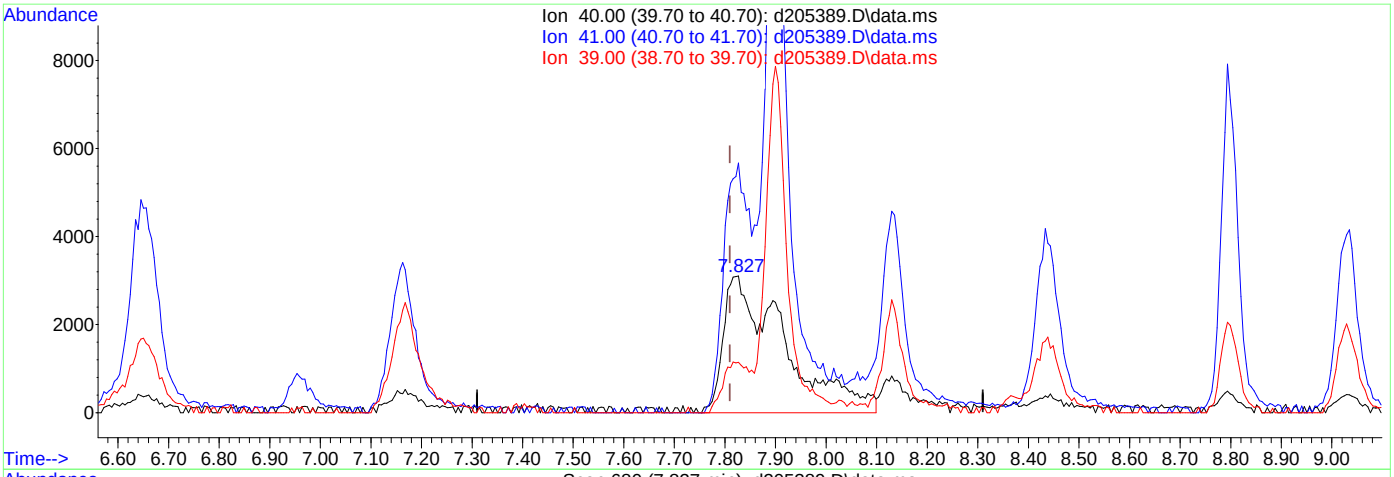
response 11854

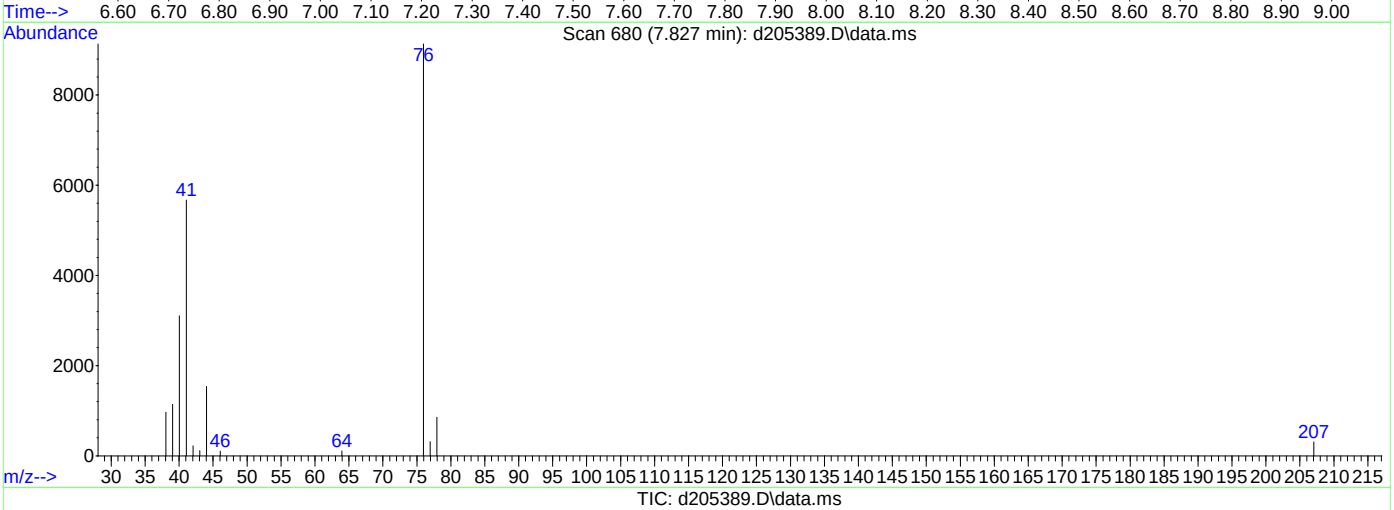
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	182.68
39.00	37.10	36.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205389.D
Acq On : 11 Feb 2013 10:27 pm
Operator : EmilyT
Sample : IC8379-10
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 09:32:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





TIC: d205389.D\data.ms

(22) acetonitrile (M)

7.827min (+0.017) 244.95ug/L

response 26203

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	182.68
39.00	37.10	36.77
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 02/18/13 12:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205390.D
Acq On : 11 Feb 2013 10:56 pm
Operator : EmilyT
Sample : IC8379-20
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 08:47:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.015	65	131261	500.00	ug/L	0.00
4) pentafluorobenzene	10.252	168	193877	50.00	ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	302594	50.00	ug/L	0.00
85) chlorobenzene-d5	14.508	117	274870	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	165949	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.284	113	38863	20.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 41.62%#			
47) 1,2-dichloroethane-d4 (s)	10.712	65	48591	22.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 44.32%#			
77) toluene-d8 (s)	12.877	98	149398	21.19	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 42.38%#			
101) 4-bromofluorobenzene (s)	15.789	95	61129	20.57	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 41.14%#			

Target Compounds

						Qvalue
2) 1,4-dioxane	11.889	88	13077	523.91	ug/L	90
3) tertiary butyl alcohol	8.130	59	30285	108.28	ug/L	99
6) chlorodifluoromethane	4.564	51	42758	20.83	ug/L	95
7) dichlorodifluoromethane	4.549	85	55534	21.39	ug/L	98
8) chloromethane	4.904	50	58881	20.36	ug/L	98
9) vinyl chloride	5.181	62	61608	21.00	ug/L	100
10) bromomethane	5.861	94	36938	22.49	ug/L	99
11) chloroethane	6.049	64	33840	20.43	ug/L	97
13) trichlorofluoromethane	6.567	101	66254	21.28	ug/L	98
14) pentane	6.645	43	70247	20.61	ug/L	98
15) ethyl ether	6.959	74	26754	19.37	ug/L	96
16) acrolein	7.178	56	109331	217.37	ug/L	100
18) 2-chloropropane	7.157	43	77611	19.09	ug/L	99
19) 1,1-dichloroethene	7.393	96	40007	20.40	ug/L	99
20) acetone	7.403	58	4756	21.93	ug/L	96
21) allyl chloride	7.900	41	102079	21.30	ug/L	98
22) acetonitrile	7.816	40	21166m	154.61	ug/L	
24) iodomethane	7.659	142	74375	21.41	ug/L	97
26) carbon disulfide	7.800	76	142045	21.04	ug/L	100
27) methylene chloride	8.072	84	47544	18.89	ug/L	95
28) 1-chloropropane	8.130	42	79496	19.54	ug/L	97
29) methyl acetate	7.874	43	40937	20.06	ug/L	98
30) methyl tert butyl ether	8.438	73	142024	22.85	ug/L	98
31) trans-1,2-dichloroethene	8.459	96	41772	20.46	ug/L	99
32) di-isopropyl ether	9.029	45	146476	21.16	ug/L	96
33) ethyl tert-butyl ether	9.494	59	148814	21.53	ug/L	99
34) 2-butanone	9.698	72	6066	21.91	ug/L #	86
35) 1,1-dichloroethane	9.008	63	78263	21.45	ug/L	98
36) chloroprene	9.134	53	61475	21.21	ug/L	98
37) acrylonitrile	8.370	53	99074	110.11	ug/L	99
38) vinyl acetate	8.998	86	9033	22.13	ug/L	95
39) ethyl acetate	9.724	45	7081	22.33	ug/L	56
40) 2,2-dichloropropane	9.766	77	55644	21.77	ug/L	99
41) cis-1,2-dichloroethene	9.735	96	45877	21.07	ug/L	98
42) propionitrile	9.771	54	78646	221.82	ug/L	99
43) bromochloromethane	10.038	128	22441	22.65	ug/L	96
44) tetrahydrofuran	10.096	72	6842	20.56	ug/L	95
45) chloroform	10.090	83	72113	21.49	ug/L	97
48) freon 113	7.372	151	27957	21.47	ug/L	98
49) methacrylonitrile	9.970	41	31707	20.85	ug/L	98
50) t-butyl formate	10.163	59	45993	22.74	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205390.D
Acq On : 11 Feb 2013 10:56 pm
Operator : EmilyT
Sample : IC8379-20
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 08:47:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.383	97	62736	21.33 ug/L	97
52) tert-amyl methyl ether	10.864	73	143093	20.92 ug/L	99
54) cyclohexane	10.482	84	63906	20.39 ug/L	93
55) tert amyl alcohol	10.650	55	10922	116.02 ug/L	94
56) 2,2,4-trimethylpentane	10.864	57	154862	20.56 ug/L	100
57) epichlorohydrin	12.427	57	27746	108.00 ug/L	97
58) n-butyl alcohol	11.251	56	79429	1020.75 ug/L	94
59) carbon tetrachloride	10.592	117	54062	20.76 ug/L	97
60) 1,1-dichloropropene	10.556	75	56955	21.16 ug/L	98
61) hexane	8.794	57	48047	19.40 ug/L	97
62) benzene	10.817	78	168993	21.08 ug/L	99
63) heptane	11.016	57	28228	20.31 ug/L	95
64) isopropyl acetate	10.723	43	89842	20.50 ug/L	99
65) 1,2-dichloroethane	10.801	62	59585	22.12 ug/L	98
66) Ethyl Acrylate	11.512	55	64910	21.40 ug/L	99
67) trichloroethene	11.523	95	41982	21.26 ug/L	97
68) 2-nitropropane	12.312	43	122465	20.72 ug/L	100
69) 2-chloroethyl vinyl ether	12.312	63	159197	109.22 ug/L	100
70) methyl methacrylate	11.784	100	12661	22.51 ug/L	99
71) tert-amyl ethyl ether	11.711	87	63779	21.62 ug/L	100
72) 1,2-dichloropropane	11.784	63	46100	21.38 ug/L	99
73) methylcyclohexane	11.784	83	67475	20.20 ug/L	100
74) dibromomethane	11.925	93	28041	22.12 ug/L	96
75) bromodichloromethane	12.061	83	57885	22.09 ug/L	99
76) cis-1,3-dichloropropene	12.547	75	75014	22.08 ug/L	98
78) 4-methyl-2-pentanone	12.652	58	20134	21.37 ug/L	92
79) toluene	12.955	92	106174	21.25 ug/L	100
80) 3-methyl-1-butanol	12.642	70	31862	437.72 ug/L	99
81) trans-1,3-dichloropropene	13.128	75	70060	21.85 ug/L	97
82) ethyl methacrylate	13.143	69	65010	21.68 ug/L	99
83) 1,1,2-trichloroethane	13.363	83	33742	21.35 ug/L	98
84) 2-hexanone	13.562	58	18994	22.12 ug/L	96
86) tetrachloroethene	13.588	166	46843	20.82 ug/L	99
87) 1,3-dichloropropane	13.562	76	72154	21.89 ug/L	97
88) butyl acetate	13.651	56	31516	21.70 ug/L	99
89) 3,3-dimethyl-1-butanol	13.734	57	54999	211.13 ug/L	98
90) dibromochloromethane	13.849	129	44772	21.38 ug/L	99
91) 1,2-dibromoethane	14.022	107	42738	22.02 ug/L	95
92) chlorobenzene	14.545	112	118111	21.16 ug/L	100
93) 1,1,1,2-tetrachloroethane	14.602	131	44589	21.58 ug/L	97
94) ethylbenzene	14.618	91	200583	20.66 ug/L	98
95) m,p-xylene	14.733	106	155384	40.17 ug/L	96
96) o-xylene	15.198	106	78567	20.47 ug/L	98
97) styrene	15.198	104	136828	21.17 ug/L	98
98) bromoform	15.470	173	34003	20.97 ug/L	99
100) isopropylbenzene	15.585	105	204265	20.60 ug/L	99
102) bromobenzene	16.014	156	55853	20.73 ug/L	100
103) cyclohexanone	15.747	55	17749	209.89 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.878	83	61330	20.06 ug/L	100
105) trans-1,4-dichloro-2-b...	15.930	53	17948	21.51 ug/L	97
106) 1,2,3-trichloropropane	15.967	110	17478	20.14 ug/L	90
107) n-propylbenzene	16.040	91	235412	19.92 ug/L	99
108) p-ethyltoluene	16.155	105	189871	20.06 ug/L	99
109) 2-chlorotoluene	16.197	126	51051	20.73 ug/L	97
110) 4-chlorotoluene	16.306	91	154961	20.09 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	179217	19.44 ug/L	100
112) tert-butylbenzene	16.604	119	158251	20.46 ug/L	99
113) pentachloroethane	16.672	167	36304	21.05 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205390.D
Acq On : 11 Feb 2013 10:56 pm
Operator : EmilyT
Sample : IC8379-20
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 08:47:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.646	105	187113	18.25 ug/L	99
115) sec-butylbenzene	16.845	105	230719	20.25 ug/L	99
116) 1,3-dichlorobenzene	17.033	146	108300	20.38 ug/L	99
117) p-isopropyltoluene	16.976	119	194213	20.58 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	112756	20.33 ug/L	99
119) Benzyl Chloride	17.242	91	105641	20.83 ug/L	100
120) p-diethylbenzene	17.394	119	114298	19.23 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	111193	20.59 ug/L	99
122) n-butylbenzene	17.430	92	105220	20.30 ug/L	99
123) 1,2,4,5-tetramethylben...	18.262	119	186947	21.40 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.398	75	12600	19.55 ug/L	97
125) 1,3,5-trichlorobenzene	18.638	180	86492	21.00 ug/L	99
126) 1,2,4-trichlorobenzene	19.365	180	74342	22.27 ug/L	99
127) hexachlorobutadiene	19.516	225	40322	20.01 ug/L	97
128) naphthalene	19.684	128	174182	22.54 ug/L	99
129) 1,2,3-trichlorobenzene	19.966	180	64068	22.71 ug/L	95
130) hexachloroethane	17.864	119	36966	20.69 ug/L	97

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

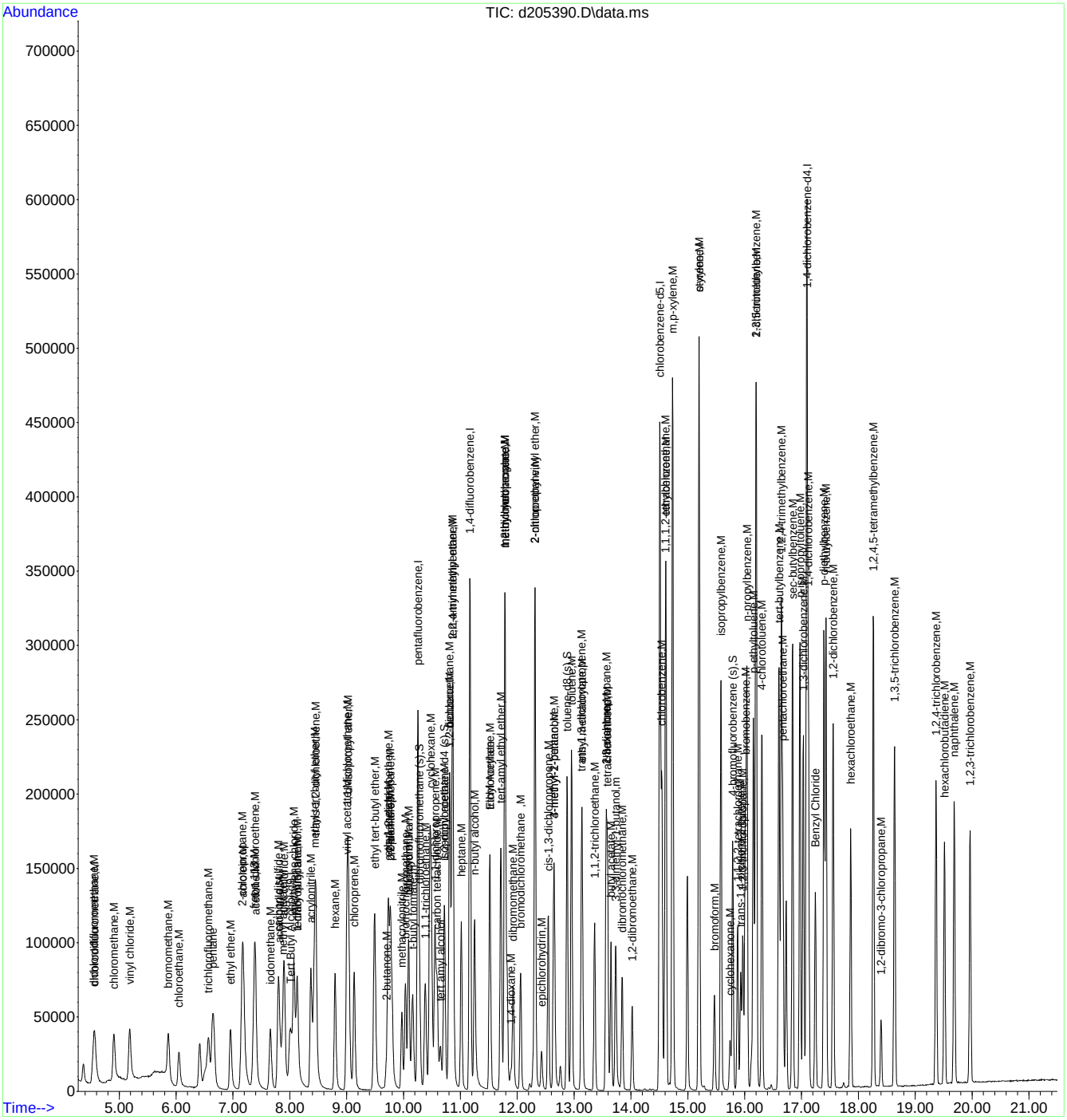
7.7.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205390.D
Acq On : 11 Feb 2013 10:56 pm
Operator : EmilyT
Sample : IC8379-20
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 08:47:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



Manual Integration Approval Summary

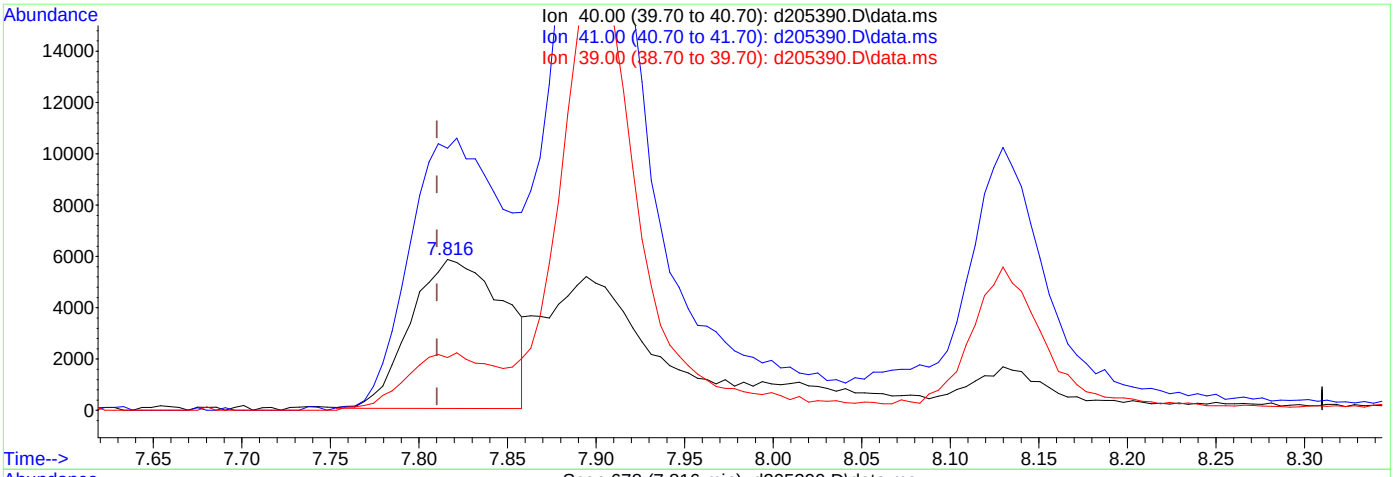
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205390.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 22:56	**Supervisor approved:**	02/18/13 12:06 Kanya Veerawat

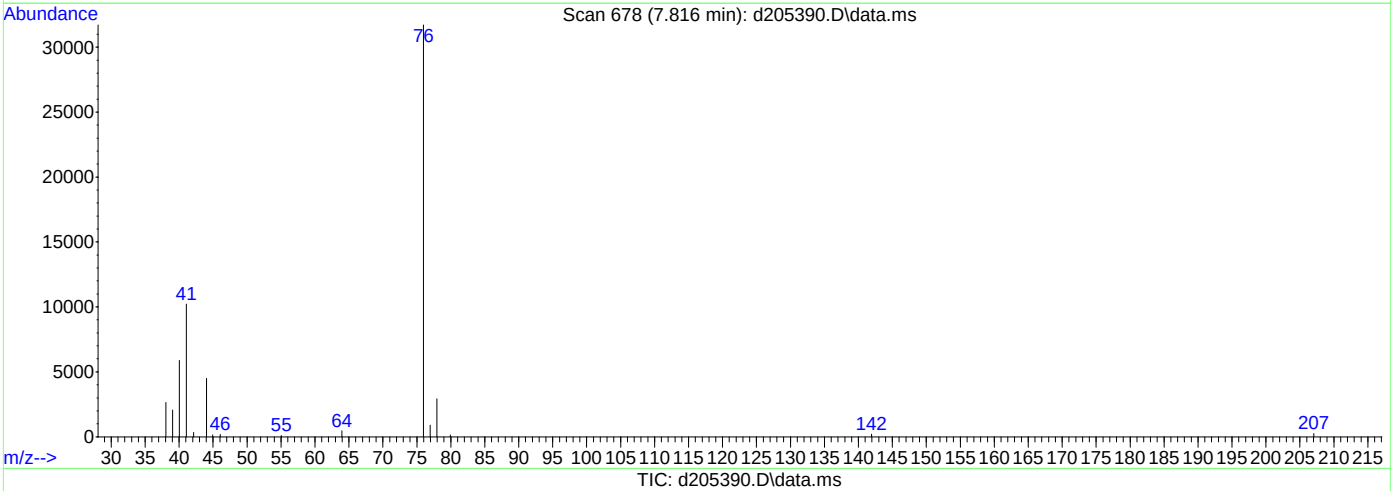
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205390.D
Acq On    : 11 Feb 2013  10:56 pm
Operator  : EmilyT
Sample    : IC8379-20
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Feb 12 08:46:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration
```





TIC: d205390.D\data.ms

(22) acetonitrile (M)

7.816min (+0.006) 154.61ug/L m

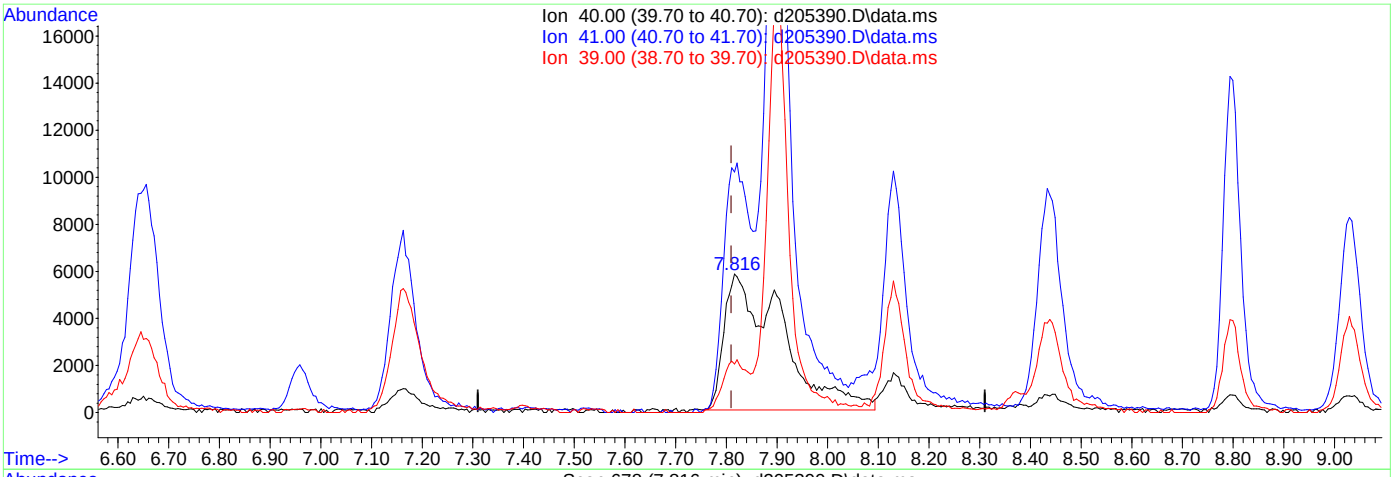
response 21166

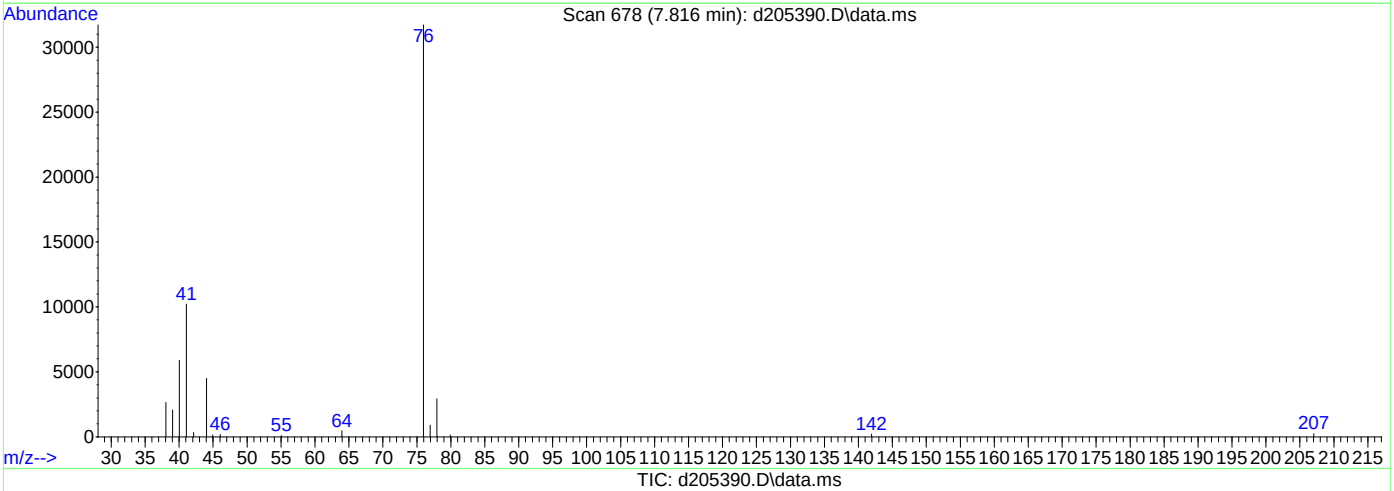
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	173.63
39.00	37.10	35.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205390.D
Acq On : 11 Feb 2013 10:56 pm
Operator : EmilyT
Sample : IC8379-20
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 18 11:10:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration





TIC: d205390.D\data.ms

(22) acetonitrile (M)

7.816min (+0.006) 433.31ug/L

response 46248

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	175.15
39.00	37.10	35.73
0.00	0.00	0.00

D205391.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : ICC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 09:14:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.014	65	114269	500.00	ug/L	0.00
4) pentafluorobenzene	10.252	168	198139	50.00	ug/L	0.00
53) 1,4-difluorobenzene	11.172	114	303053	50.00	ug/L	0.00
85) chlorobenzene-d5	14.507	117	275850	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	171584	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	10.283	113	95234	49.89	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.78%			
47) 1,2-dichloroethane-d4 (s)	10.712	65	115605	51.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 103.20%			
77) toluene-d8 (s)	12.876	98	363601	51.50	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 103.00%			
101) 4-bromofluorobenzene (s)	15.788	95	151088	49.17	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.34%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.888	88	22858	1051.95	ug/L	100
3) tertiary butyl alcohol	8.124	59	63666	261.47	ug/L	100
6) chlorodifluoromethane	4.569	51	105143	50.13	ug/L	100
7) dichlorodifluoromethane	4.548	85	138098	52.04	ug/L	100
8) chloromethane	4.914	50	145500	49.23	ug/L	100
9) vinyl chloride	5.196	62	155870	51.99	ug/L	100
10) bromomethane	5.865	94	89383	53.24	ug/L	100
11) chloroethane	6.048	64	82921	48.98	ug/L	100
13) trichlorofluoromethane	6.566	101	165566	52.04	ug/L	100
14) pentane	6.660	43	164097	47.10	ug/L	100
15) ethyl ether	6.958	74	65047	46.09	ug/L	100
16) acrolein	7.183	56	256678	499.35	ug/L	100
18) 2-chloropropane	7.162	43	193840	46.66	ug/L	100
19) 1,1-dichloroethene	7.397	96	100926	50.35	ug/L	100
20) acetone	7.397	58	10302	46.47	ug/L	100
21) allyl chloride	7.899	41	238896	48.77	ug/L	100
22) acetonitrile	7.810	40	47256m	337.77	ug/L	
24) iodomethane	7.659	142	186240	52.46	ug/L	100
26) carbon disulfide	7.800	76	357111	51.77	ug/L	100
27) methylene chloride	8.077	84	115804	45.01	ug/L	100
28) 1-chloropropane	8.134	42	192999	46.42	ug/L	100
29) methyl acetate	7.873	43	97973	46.98	ug/L	100
30) methyl tert butyl ether	8.438	73	342038	53.86	ug/L	100
31) trans-1,2-dichloroethene	8.464	96	105690	50.66	ug/L	100
32) di-isopropyl ether	9.034	45	360779	50.99	ug/L	100
33) ethyl tert-butyl ether	9.494	59	370325	52.42	ug/L	100
34) 2-butanone	9.692	72	14503	51.26	ug/L #	98
35) 1,1-dichloroethane	9.013	63	194990	52.30	ug/L	100
36) chloroprene	9.133	53	153520	51.83	ug/L	100
37) acrylonitrile	8.370	53	232840	253.20	ug/L	100
38) vinyl acetate	8.997	86	22411	53.73	ug/L	100
39) ethyl acetate	9.729	45	15614	48.17	ug/L	100
40) 2,2-dichloropropane	9.771	77	135710	51.95	ug/L	100
41) cis-1,2-dichloroethene	9.734	96	113389	50.95	ug/L	100
42) propionitrile	9.771	54	179357	495.00	ug/L	100
43) bromochloromethane	10.037	128	56451	55.76	ug/L	100
44) tetrahydrofuran	10.095	72	16597	48.79	ug/L	100
45) chloroform	10.090	83	177846	51.85	ug/L	100
48) freon 113	7.371	151	72147	54.21	ug/L	100
49) methacrylonitrile	9.969	41	72457	46.62	ug/L	100
50) t-butyl formate	10.163	59	115714	55.98	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : ICC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 09:14:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.382	97	156282	52.00 ug/L	100
52) tert-amyl methyl ether	10.863	73	350412	50.13 ug/L	100
54) cyclohexane	10.482	84	164949	52.54 ug/L	100
55) tert amyl alcohol	10.644	55	22461	238.23 ug/L	100
56) 2,2,4-trimethylpentane	10.863	57	374942	49.70 ug/L	100
57) epichlorohydrin	12.432	57	62578	243.20 ug/L	100
58) n-butyl alcohol	11.250	56	177496	2277.57 ug/L	100
59) carbon tetrachloride	10.591	117	136352	52.28 ug/L	100
60) 1,1-dichloropropene	10.555	75	137490	51.00 ug/L	100
61) hexane	8.798	57	120361	48.52 ug/L	100
62) benzene	10.816	78	411712	51.27 ug/L	100
63) heptane	11.015	57	70104	50.37 ug/L	100
64) isopropyl acetate	10.722	43	217683	49.59 ug/L	100
65) 1,2-dichloroethane	10.801	62	141714	52.53 ug/L	100
66) Ethyl Acrylate	11.512	55	150167	49.44 ug/L	100
67) trichloroethene	11.522	95	103495	52.34 ug/L	100
68) 2-nitropropane	12.311	43	293468	49.57 ug/L	100
69) 2-chloroethyl vinyl ether	12.311	63	389497	266.81 ug/L	100
70) methyl methacrylate	11.783	100	31420	55.78 ug/L	100
71) tert-amyl ethyl ether	11.715	87	159289	53.91 ug/L	100
72) 1,2-dichloropropane	11.783	63	113675	52.63 ug/L	100
73) methylcyclohexane	11.783	83	173666	51.92 ug/L	100
74) dibromomethane	11.925	93	67881	53.46 ug/L	100
75) bromodichloromethane	12.061	83	142243	54.21 ug/L	100
76) cis-1,3-dichloropropene	12.547	75	181156	53.25 ug/L	100
78) 4-methyl-2-pentanone	12.657	58	47366	50.20 ug/L	100
79) toluene	12.955	92	260210	51.99 ug/L	100
80) 3-methyl-1-butanol	12.641	70	70299	964.30 ug/L	100
81) trans-1,3-dichloropropene	13.132	75	169517	52.79 ug/L	100
82) ethyl methacrylate	13.143	69	155191	51.67 ug/L	100
83) 1,1,2-trichloroethane	13.362	83	81278	51.34 ug/L	100
84) 2-hexanone	13.561	58	43562	50.65 ug/L	100
86) tetrachloroethene	13.587	166	116567	51.62 ug/L	100
87) 1,3-dichloropropane	13.566	76	169903	51.35 ug/L	100
88) butyl acetate	13.650	56	75262	51.65 ug/L	100
89) 3,3-dimethyl-1-butanol	13.733	57	122162	467.30 ug/L	100
90) dibromochloromethane	13.849	129	112483	53.52 ug/L	100
91) 1,2-dibromoethane	14.021	107	103251	53.02 ug/L	100
92) chlorobenzene	14.544	112	291788	52.08 ug/L	100
93) 1,1,1,2-tetrachloroethane	14.607	131	111088	53.58 ug/L	100
94) ethylbenzene	14.617	91	497061	51.03 ug/L	100
95) m,p-xylene	14.732	106	389635	100.37 ug/L	100
96) o-xylene	15.197	106	195761	50.82 ug/L	100
97) styrene	15.197	104	341110	52.59 ug/L	100
98) bromoform	15.469	173	86906	53.41 ug/L	100
100) isopropylbenzene	15.584	105	513461	50.08 ug/L	100
102) bromobenzene	16.013	156	139901	50.21 ug/L	100
103) cyclohexanone	15.741	55	36489	417.32 ug/L	100
104) 1,1,2,2-tetrachloroethane	15.877	83	149192	47.19 ug/L	100
105) trans-1,4-dichloro-2-b...	15.929	53	44224	51.27 ug/L	100
106) 1,2,3-trichloropropane	15.966	110	42871	47.77 ug/L	100
107) n-propylbenzene	16.039	91	598002	48.95 ug/L	100
108) p-ethyltoluene	16.154	105	476305	48.67 ug/L	100
109) 2-chlorotoluene	16.196	126	127881	50.23 ug/L	100
110) 4-chlorotoluene	16.306	91	391814	49.13 ug/L	100
111) 1,3,5-trimethylbenzene	16.206	105	454477	47.69 ug/L	100
112) tert-butylbenzene	16.604	119	392398	49.06 ug/L	100
113) pentachloroethane	16.672	167	89162	49.99 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : ICC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 09:14:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.645	105	468096	44.16 ug/L	100
115) sec-butylbenzene	16.844	105	583508	49.53 ug/L	100
116) 1,3-dichlorobenzene	17.032	146	271894	49.48 ug/L	100
117) p-isopropyltoluene	16.975	119	485769	49.77 ug/L	100
118) 1,4-dichlorobenzene	17.121	146	283260	49.39 ug/L	100
119) Benzyl Chloride	17.241	91	267207	50.95 ug/L	100
120) p-diethylbenzene	17.393	119	292364	47.58 ug/L	100
121) 1,2-dichlorobenzene	17.555	146	270466	48.44 ug/L	100
122) n-butylbenzene	17.430	92	267527	49.91 ug/L	100
123) 1,2,4,5-tetramethylben...	18.266	119	438524	48.55 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.397	75	27039	40.58 ug/L	100
125) 1,3,5-trichlorobenzene	18.637	180	200596	47.10 ug/L	100
126) 1,2,4-trichlorobenzene	19.369	180	164639	47.69 ug/L	100
127) hexachlorobutadiene	19.516	225	88719	42.59 ug/L	100
128) naphthalene	19.688	128	351757	44.01 ug/L	100
129) 1,2,3-trichlorobenzene	19.965	180	127689	43.77 ug/L	100
130) hexachloroethane	17.864	119	88584	47.96 ug/L	100

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

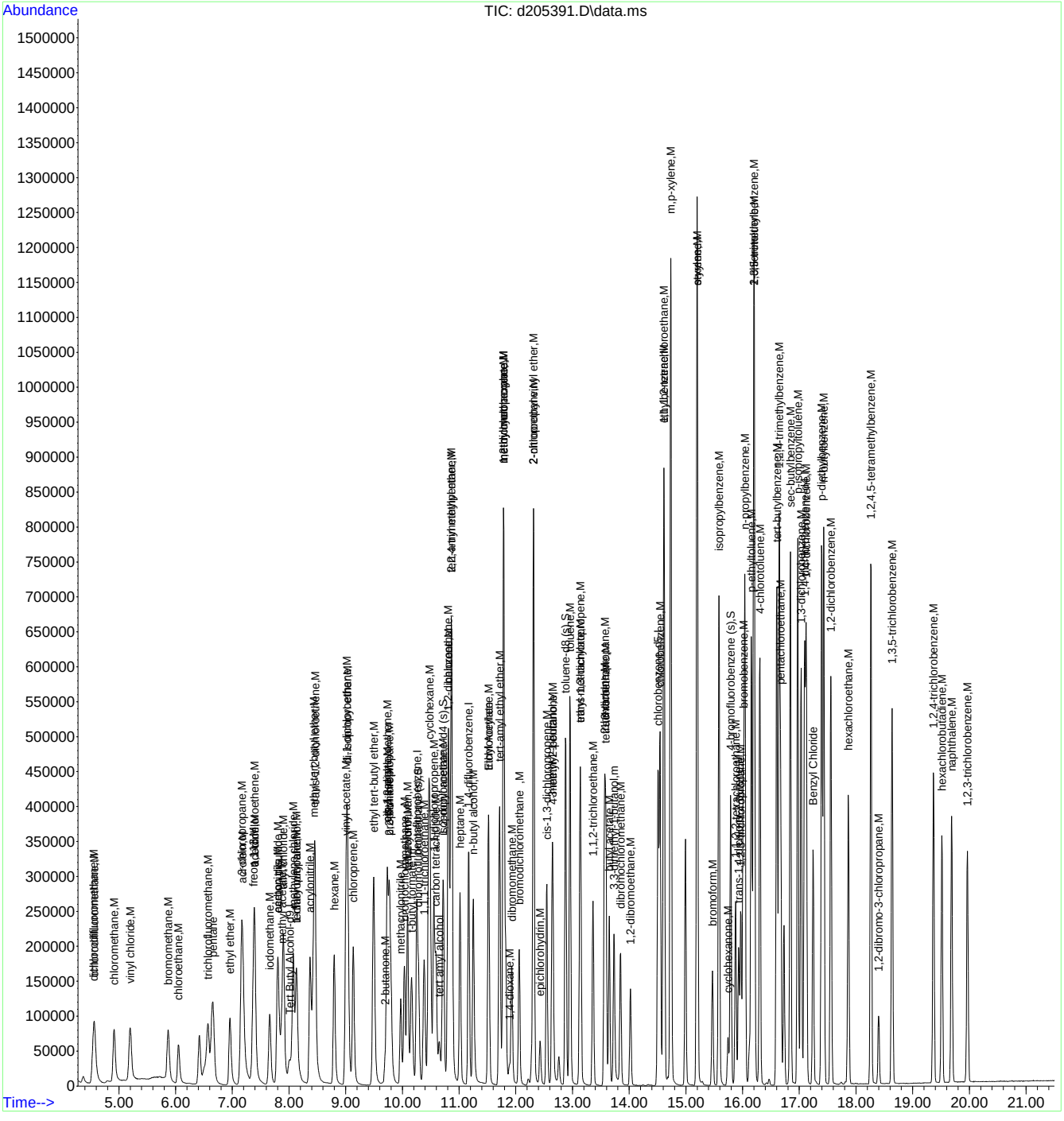
7.2.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : ICC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 09:14:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



Manual Integration Approval Summary

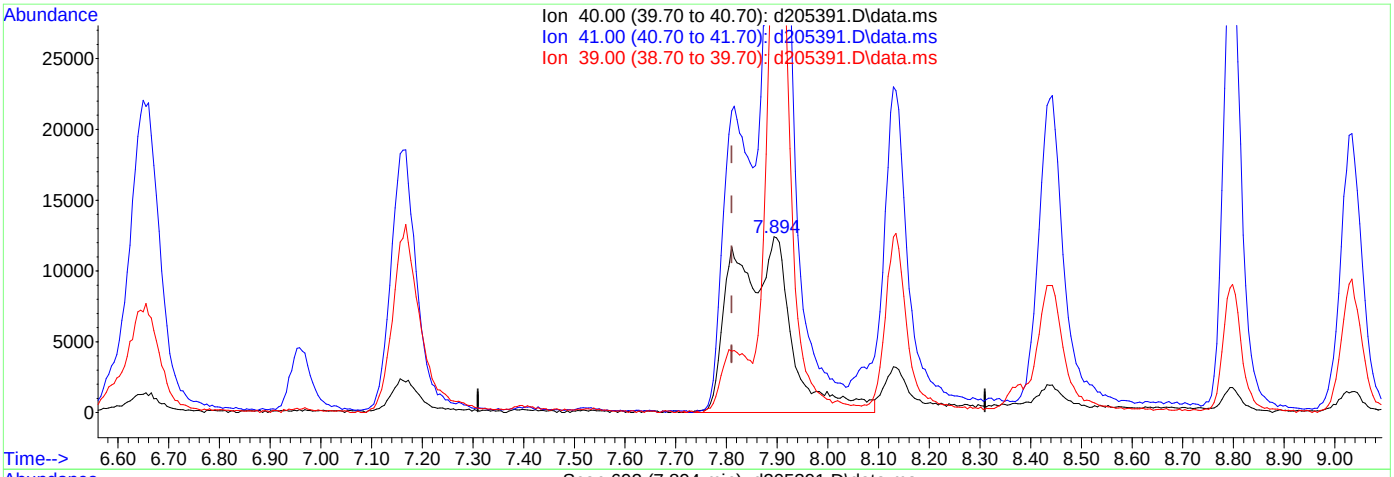
Sample Number:	VD8379-ICC8379	**Method:**	SW846 8260B
Lab FileID:	D205391.D	**Analyst approved:**	02/18/13 02:37 Kanya Veerawat
Injection Time:	02/11/13 23:26	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

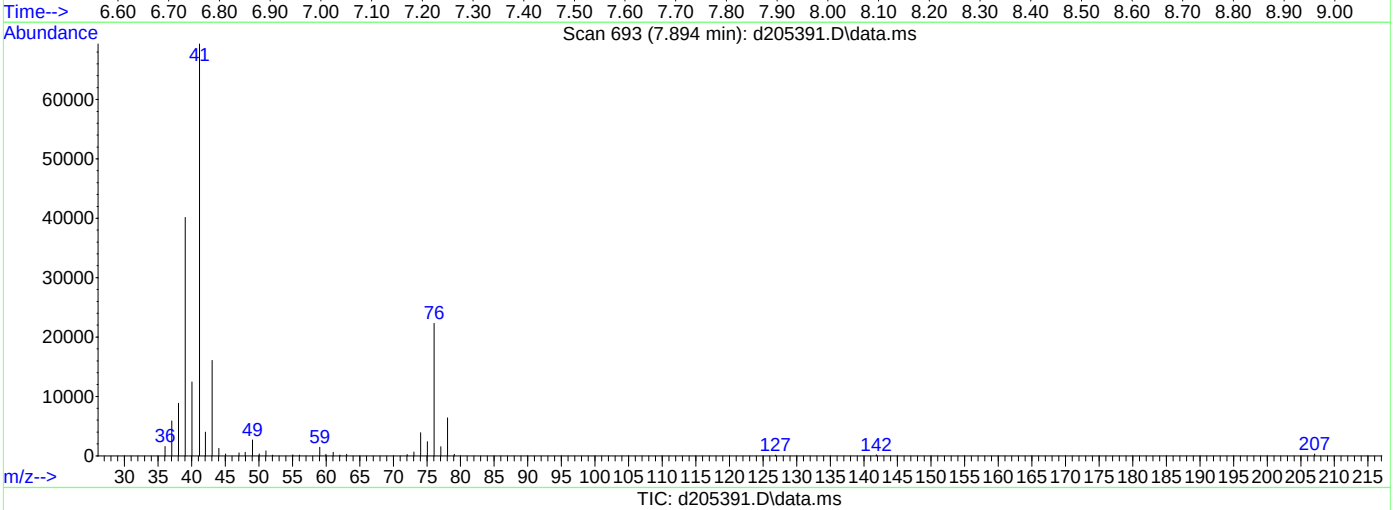
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.81	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : IC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 08:33:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:14:34 2013
Response via : Initial Calibration





TIC: d205391.D\data.ms

(22) acetonitrile (M)

7.894min (+0.084) 707.63ug/L

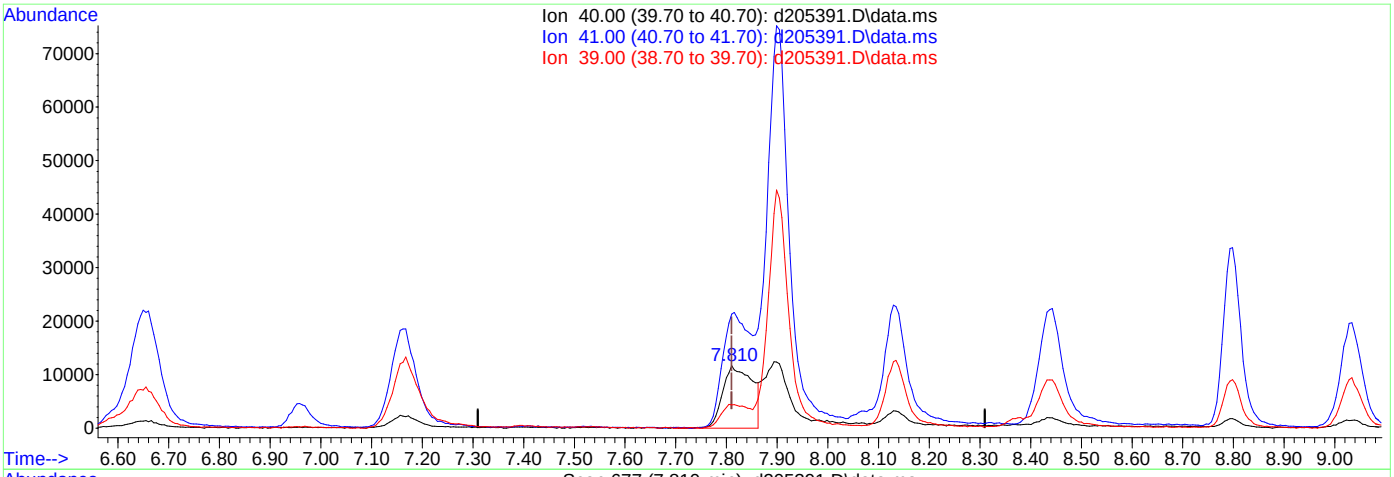
response 99001

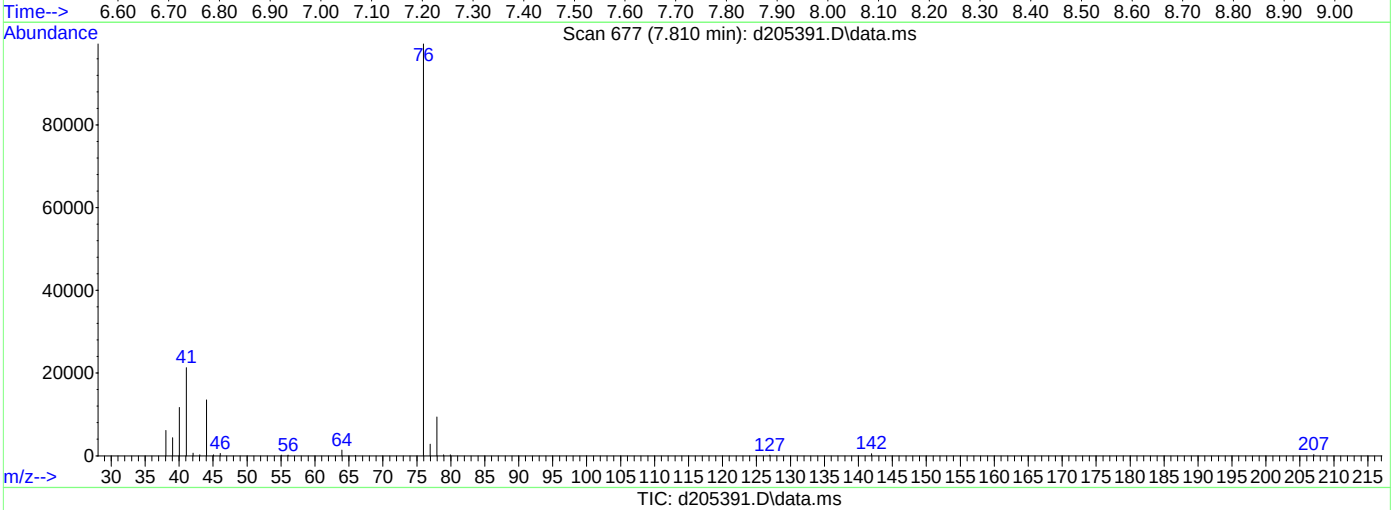
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	557.34#
39.00	37.10	322.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205391.D
Acq On : 11 Feb 2013 11:26 pm
Operator : EmilyT
Sample : IC8379-50
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 08:47:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration





TIC: d205391.D\data.ms

(22) acetonitrile (M)

7.810min (0.000) 337.77ug/L m

response 47256

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	182.15
39.00	37.10	37.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 02/18/13 02:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205392.D
Acq On : 11 Feb 2013 11:55 pm
Operator : EmilyT
Sample : IC8379-100
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 08:48:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.030	65	132264	500.00	ug/L	0.02
4) pentafluorobenzene	10.252	168	197975	50.00	ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	308766	50.00	ug/L	0.00
85) chlorobenzene-d5	14.508	117	289757	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	180484	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.283	113	196664	103.10	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 206.20%#			
47) 1,2-dichloroethane-d4 (s)	10.712	65	237597	106.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 212.26%#			
77) toluene-d8 (s)	12.876	98	779739	108.41	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 216.82%#			
101) 4-bromofluorobenzene (s)	15.788	95	327351	101.28	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 202.56%#			

Target Compounds

						Qvalue
2) 1,4-dioxane	11.888	88	69559	2765.64	ug/L	91
3) tertiary butyl alcohol	8.140	59	146973	521.49	ug/L	94
6) chlorodifluoromethane	4.569	51	217871	103.96	ug/L	100
7) dichlorodifluoromethane	4.553	85	260410	98.21	ug/L	99
8) chloromethane	4.925	50	300819	101.87	ug/L	98
9) vinyl chloride	5.212	62	311294	103.91	ug/L	98
10) bromomethane	5.866	94	168470	100.43	ug/L	99
11) chloroethane	6.043	64	178396	105.47	ug/L	98
13) trichlorofluoromethane	6.566	101	321052	101.00	ug/L	98
14) pentane	6.655	43	364284	104.64	ug/L	98
15) ethyl ether	6.964	74	136924	97.09	ug/L	99
16) acrolein	7.194	56	6719	13.08	ug/L	85
18) 2-chloropropane	7.162	43	397917	95.86	ug/L	92
19) 1,1-dichloroethene	7.392	96	206812	103.26	ug/L	98
20) acetone	7.408	58	23333	105.34	ug/L	96
21) allyl chloride	7.899	41	514188	105.06	ug/L	97
22) acetonitrile	7.826	40	101416m	725.49	ug/L	
24) iodomethane	7.659	142	388720	109.59	ug/L	98
26) carbon disulfide	7.800	76	735163	106.66	ug/L	99
27) methylene chloride	8.077	84	241149	93.82	ug/L	96
28) 1-chloropropane	8.129	42	397228	95.62	ug/L	98
29) methyl acetate	7.873	43	199463	95.73	ug/L	99
30) methyl tert butyl ether	8.443	73	715652	112.78	ug/L	99
31) trans-1,2-dichloroethene	8.459	96	217990	104.58	ug/L	98
32) di-isopropyl ether	9.034	45	740217	104.70	ug/L	99
33) ethyl tert-butyl ether	9.494	59	759620	107.62	ug/L	99
34) 2-butanone	9.693	72	30147	106.63	ug/L #	95
35) 1,1-dichloroethane	9.013	63	401078	107.66	ug/L	99
36) chloroprene	9.133	53	320771	108.38	ug/L	99
37) acrylonitrile	8.375	53	494433	538.12	ug/L	98
38) vinyl acetate	8.997	86	46724	112.10	ug/L	96
39) ethyl acetate	9.724	45	32629	100.75	ug/L	70
40) 2,2-dichloropropane	9.771	77	275927	105.71	ug/L	100
41) cis-1,2-dichloroethene	9.734	96	235505	105.91	ug/L	99
42) propionitrile	9.771	54	391185	1080.50	ug/L	99
43) bromochloromethane	10.038	128	116910	115.57	ug/L	98
44) tetrahydrofuran	10.095	72	34007	100.06	ug/L	98
45) chloroform	10.090	83	367979	107.37	ug/L	100
48) freon 113	7.371	151	151877	114.21	ug/L	98
49) methacrylonitrile	9.970	41	150769	97.09	ug/L	99
50) t-butyl formate	10.163	59	234880	113.72	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205392.D
Acq On : 11 Feb 2013 11:55 pm
Operator : EmilyT
Sample : IC8379-100
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 08:48:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.383	97	326046	108.57 ug/L	99
52) tert-amyl methyl ether	10.864	73	742559	106.32 ug/L	99
54) cyclohexane	10.482	84	341015	106.62 ug/L	99
55) tert amyl alcohol	10.654	55	48366	503.49 ug/L	93
56) 2,2,4-trimethylpentane	10.864	57	805507	104.79 ug/L	99
57) epichlorohydrin	12.427	57	140436	535.69 ug/L	97
58) n-butyl alcohol	11.250	56	419423	5282.31 ug/L	99
59) carbon tetrachloride	10.592	117	288572	108.60 ug/L	99
60) 1,1-dichloropropene	10.555	75	290404	105.73 ug/L	99
61) hexane	8.793	57	246527	97.54 ug/L	99
62) benzene	10.817	78	865070	105.74 ug/L	99
63) heptane	11.015	57	147104	103.74 ug/L	98
64) isopropyl acetate	10.722	43	448953	100.38 ug/L	100
65) 1,2-dichloroethane	10.801	62	299153	108.84 ug/L	99
66) Ethyl Acrylate	11.512	55	323177	104.44 ug/L	99
67) trichloroethene	11.522	95	216433	107.44 ug/L	99
68) 2-nitropropane	12.312	43	633760	105.07 ug/L	99
69) 2-chloroethyl vinyl ether	12.317	63	833008	560.06 ug/L	99
70) methyl methacrylate	11.784	100	68379	119.15 ug/L	100
71) tert-amyl ethyl ether	11.716	87	341085	113.30 ug/L	100
72) 1,2-dichloropropane	11.784	63	245201	111.42 ug/L	100
73) methylcyclohexane	11.784	83	375010	110.05 ug/L	98
74) dibromomethane	11.930	93	144656	111.81 ug/L	96
75) bromodichloromethane	12.061	83	300245	112.30 ug/L	98
76) cis-1,3-dichloropropene	12.547	75	384152	110.83 ug/L	99
78) 4-methyl-2-pentanone	12.657	58	104477	108.67 ug/L	98
79) toluene	12.955	92	556223	109.08 ug/L	99
80) 3-methyl-1-butanol	12.646	70	163142	2196.43 ug/L	98
81) trans-1,3-dichloropropene	13.127	75	365518	111.71 ug/L	94
82) ethyl methacrylate	13.143	69	343311	112.19 ug/L	100
83) 1,1,2-trichloroethane	13.363	83	176129	109.20 ug/L	98
84) 2-hexanone	13.566	58	97897	111.73 ug/L	98
86) tetrachloroethene	13.587	166	255988	107.93 ug/L	99
87) 1,3-dichloropropane	13.566	76	372843	107.28 ug/L	100
88) butyl acetate	13.650	56	162361	106.07 ug/L	94
89) 3,3-dimethyl-1-butanol	13.734	57	281680	1025.77 ug/L	98
90) dibromochloromethane	13.849	129	244594	110.80 ug/L	99
91) 1,2-dibromoethane	14.021	107	224213	109.60 ug/L	99
92) chlorobenzene	14.544	112	624886	106.18 ug/L	100
93) 1,1,1,2-tetrachloroethane	14.607	131	239907	110.16 ug/L	97
94) ethylbenzene	14.617	91	1067041	104.28 ug/L	100
95) m,p-xylene	14.732	106	830814	203.75 ug/L	99
96) o-xylene	15.198	106	424687	104.95 ug/L	98
97) styrene	15.198	104	744662	109.30 ug/L	99
98) bromoform	15.469	173	194044	113.52 ug/L	99
100) isopropylbenzene	15.585	105	1101368	102.13 ug/L	99
102) bromobenzene	16.013	156	301070	102.73 ug/L	95
103) cyclohexanone	15.741	55	77546	843.15 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.877	83	320360	96.34 ug/L	98
105) trans-1,4-dichloro-2-b...	15.930	53	97718	107.70 ug/L	99
106) 1,2,3-trichloropropane	15.971	110	92831	98.33 ug/L	97
107) n-propylbenzene	16.039	91	1275790	99.28 ug/L	99
108) p-ethyltoluene	16.154	105	1040718	101.10 ug/L	100
109) 2-chlorotoluene	16.196	126	278568	104.02 ug/L	100
110) 4-chlorotoluene	16.306	91	844187	100.64 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	985853	98.35 ug/L	99
112) tert-butylbenzene	16.604	119	846472	100.61 ug/L	99
113) pentachloroethane	16.672	167	184847	98.53 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205392.D
Acq On : 11 Feb 2013 11:55 pm
Operator : EmilyT
Sample : IC8379-100
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 08:48:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.646	105	1015320	91.07 ug/L	100
115) sec-butylbenzene	16.844	105	1246952	100.62 ug/L	99
116) 1,3-dichlorobenzene	17.033	146	583738	100.99 ug/L	100
117) p-isopropyltoluene	16.975	119	1045243	101.82 ug/L	100
118) 1,4-dichlorobenzene	17.122	146	608378	100.85 ug/L	99
119) Benzyl Chloride	17.242	91	559982	101.51 ug/L	99
120) p-diethylbenzene	17.399	119	635920	98.39 ug/L	99
121) 1,2-dichlorobenzene	17.561	146	570937	97.20 ug/L	99
122) n-butylbenzene	17.435	92	579050	102.71 ug/L	99
123) 1,2,4,5-tetramethylben...	18.266	119	906524	95.41 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.397	75	55240	78.83 ug/L	97
125) 1,3,5-trichlorobenzene	18.638	180	401680	89.67 ug/L	98
126) 1,2,4-trichlorobenzene	19.370	180	330873	91.12 ug/L	99
127) hexachlorobutadiene	19.516	225	172818	78.86 ug/L	98
128) naphthalene	19.688	128	689292	82.00 ug/L	99
129) 1,2,3-trichlorobenzene	19.966	180	244086	79.55 ug/L	98
130) hexachloroethane	17.864	119	192309	98.98 ug/L	100

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

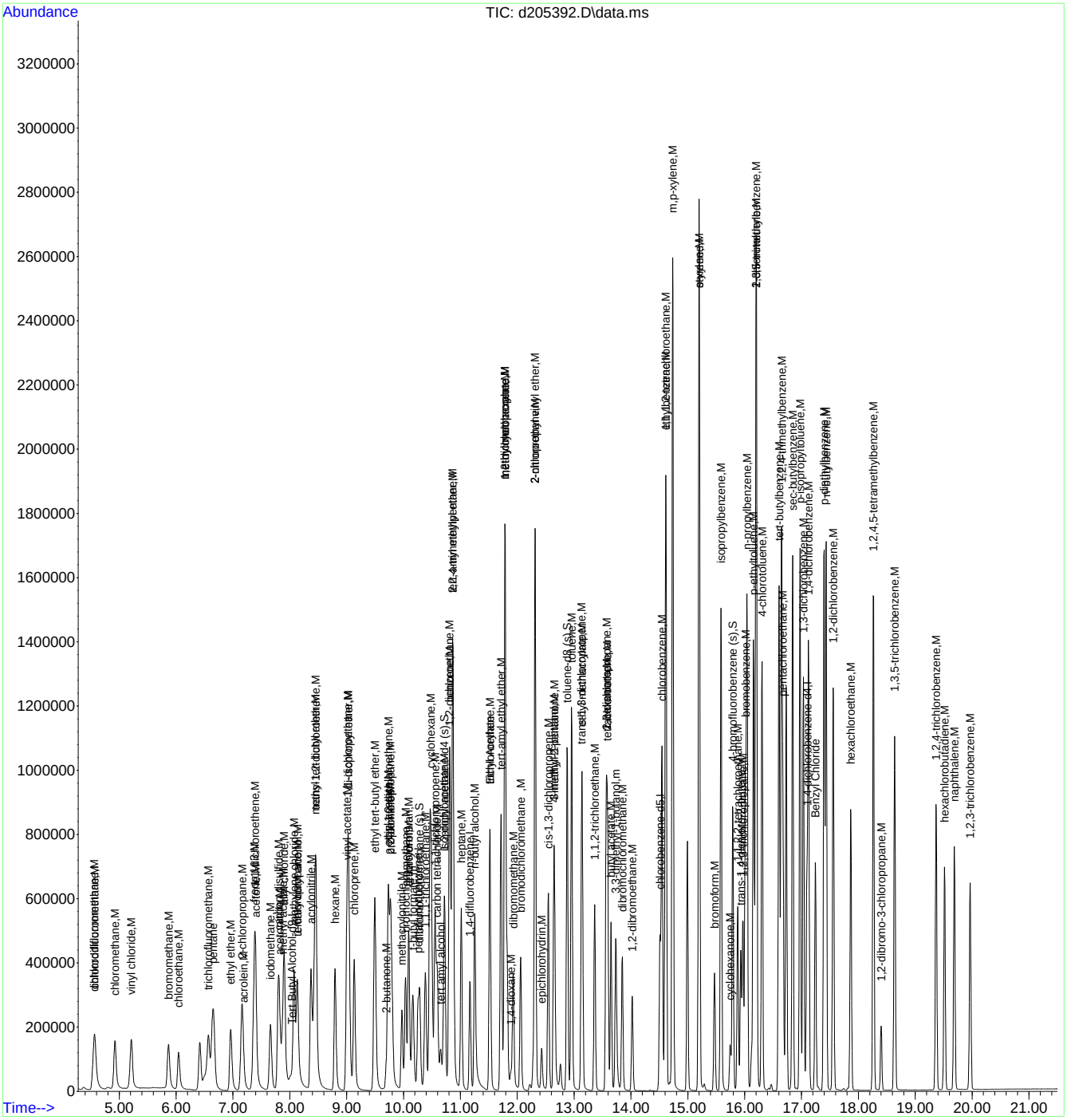
7.7.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205392.D
Acq On : 11 Feb 2013 11:55 pm
Operator : EmilyT
Sample : IC8379-100
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 08:48:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205392.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 23:55	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205392.D
Acq On    : 11 Feb 2013  11:55 pm
Operator  : EmilyT
Sample    : IC8379-100
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Feb 12 08:47:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration
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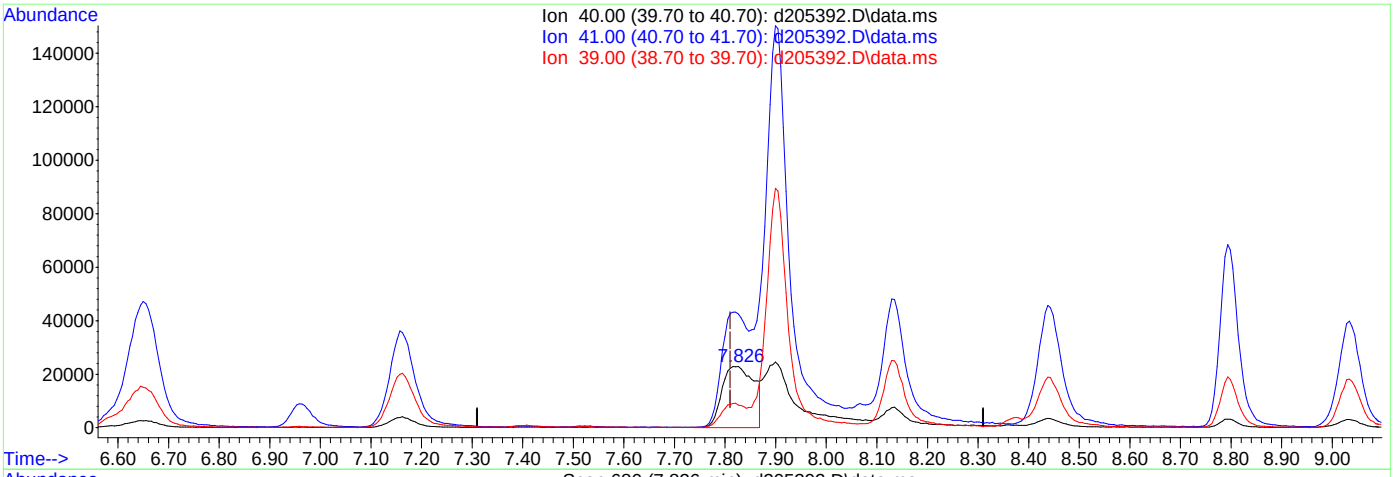
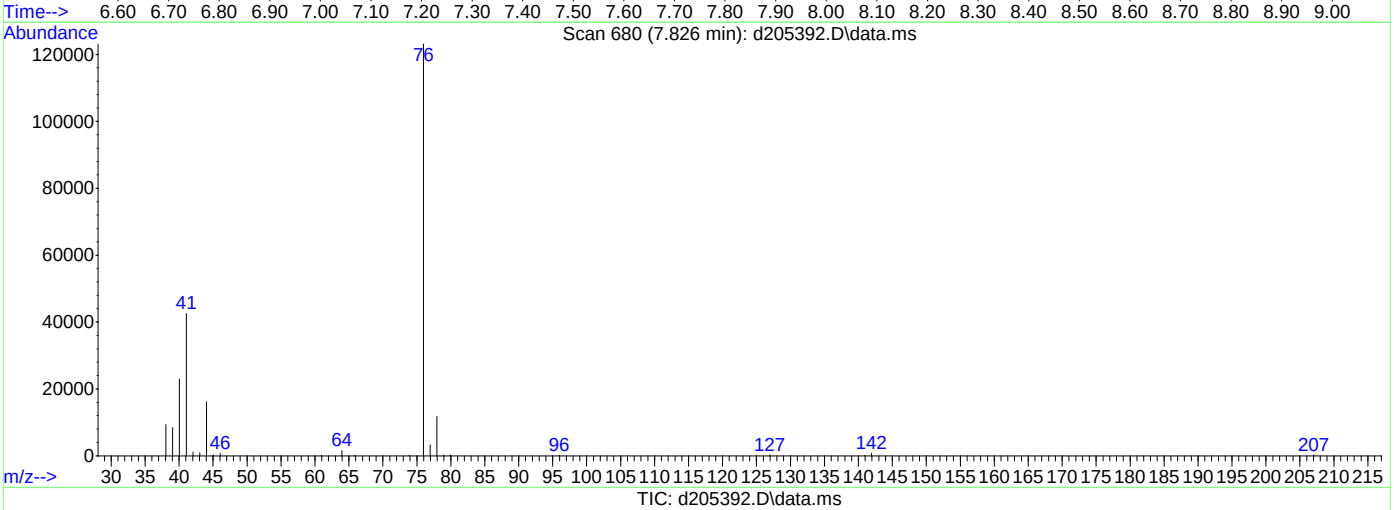




TIC: d205392.D\data.ms

(22) acetonitrile (M)

7.826min (+0.016) 725.49ug/L m

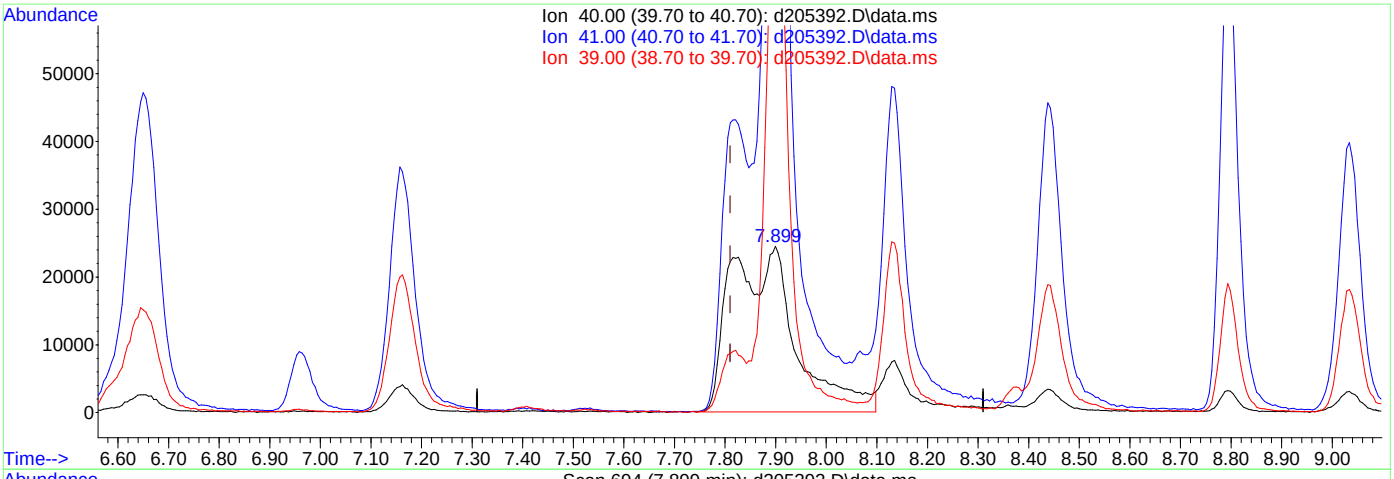
response 101416

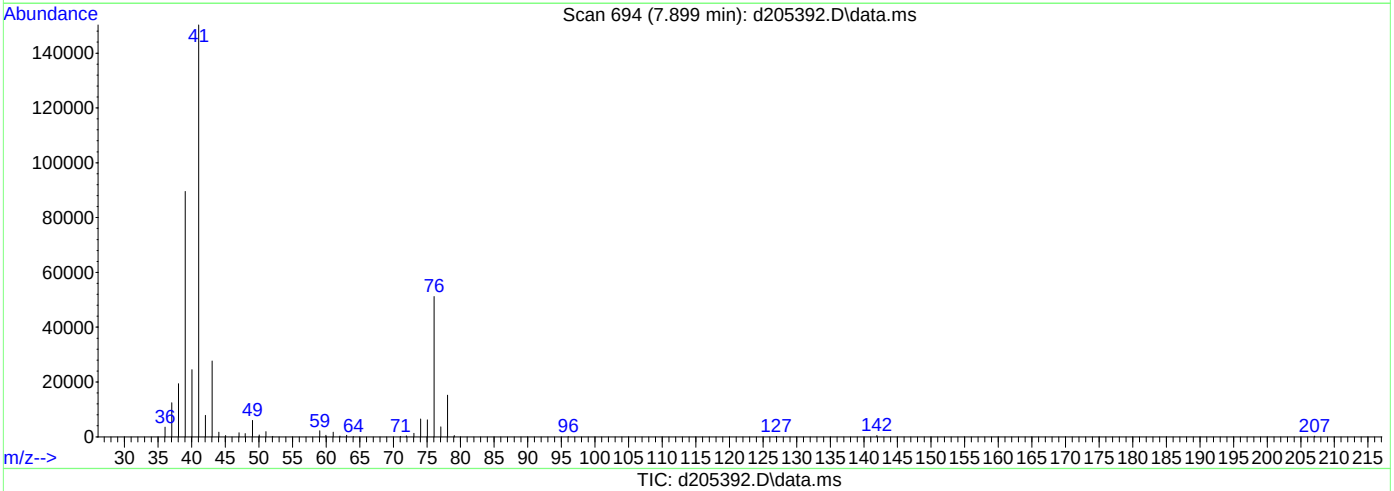
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	185.54
39.00	37.10	36.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205392.D
Acq On : 11 Feb 2013 11:55 pm
Operator : EmilyT
Sample : IC8379-100
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 09:32:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





(22) acetonitrile (M)

7.899min (+0.089) 1994.72ug/L

response 217403

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	614.80#
39.00	37.10	365.98#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/19/13 23:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205393.D
Acq On : 12 Feb 2013 12:25 am
Operator : EmilyT
Sample : IC8379-200
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 12:57:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:52:06 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.026	65	137261	500.00 ug/L	0.01
4) pentafluorobenzene	10.253	168	201912	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	308616	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	301604	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.097	152	181121	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.285	113	389347	213.93 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery	= 427.86%#	
47) 1,2-dichloroethane-d4 (s)	10.713	65	472003	215.42 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery	= 430.84%#	
77) toluene-d8 (s)	12.878	98	1573674	227.82 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery	= 455.64%#	
101) 4-bromofluorobenzene (s)	15.790	95	694498	228.46 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery	= 456.92%#	

Target Compounds					Qvalue
2) 1,4-dioxane	11.890	88	115528	4426.12 ug/L	94
3) tertiary butyl alcohol	8.146	59	276914	946.78 ug/L #	70
6) chlorodifluoromethane	4.565	51	449795	203.77 ug/L	98
7) dichlorodifluoromethane	4.549	85	561982	207.79 ug/L	99
8) chloromethane	4.931	50	650318	215.94 ug/L	98
9) vinyl chloride	5.219	62	656462	214.86 ug/L	99
10) bromomethane	5.856	94	258524	151.11 ug/L	99
11) chloroethane	6.029	64	352051	205.00 ug/L	99
12) vinyl bromide	6.646	106	480	203.03 ug/L	80
13) trichlorofluoromethane	6.557	101	701445	226.03 ug/L	99
14) pentane	6.646	43	781034	221.38 ug/L	98
15) ethyl ether	6.960	74	281481	195.70 ug/L	98
16) acrolein	7.179	56	11732	22.40 ug/L	82
18) 2-chloropropane	7.153	43	788837	186.39 ug/L	92
19) 1,1-dichloroethene	7.394	96	417611	204.43 ug/L	99
20) acetone	7.404	58	44975	143.12 ug/L	96
21) allyl chloride	7.895	41	958752	196.43 ug/L	97
22) acetonitrile	7.817	40	198401m	1784.88 ug/L	
24) iodomethane	7.655	142	763360	211.02 ug/L	99
25) iso-butyl alcohol	10.504	74	23654	2002.07 ug/L	96
26) carbon disulfide	7.801	76	1463304	208.17 ug/L	99
27) methylene chloride	8.073	84	478981	182.71 ug/L	97
28) 1-chloropropane	8.131	42	805557	190.14 ug/L	99
29) methyl acetate	7.874	43	408705	192.33 ug/L	99
30) methyl tert butyl ether	8.439	73	1397088	204.18 ug/L	100
31) trans-1,2-dichloroethene	8.460	96	437578	205.84 ug/L	99
32) di-isopropyl ether	9.035	45	1489033	206.50 ug/L	99
33) ethyl tert-butyl ether	9.495	59	1514554	210.40 ug/L	99
34) 2-butanone	9.699	72	60089	208.54 ug/L #	98
35) 1,1-dichloroethane	9.014	63	797496	209.90 ug/L	99
36) chloroprene	9.134	53	650019	215.34 ug/L	99
37) acrylonitrile	8.371	53	967467	1032.41 ug/L	99
38) vinyl acetate	8.998	86	94054	206.23 ug/L	93
39) ethyl acetate	9.730	45	68224	196.61 ug/L	99
40) 2,2-dichloropropane	9.767	77	549933	196.49 ug/L	99
41) cis-1,2-dichloroethene	9.736	96	470198	207.33 ug/L	98
42) propionitrile	9.777	54	759102	2055.86 ug/L	89
43) bromochloromethane	10.034	128	227828	220.83 ug/L	97
44) tetrahydrofuran	10.096	72	67197	193.86 ug/L	98
45) chloroform	10.091	83	717636	205.31 ug/L	100
48) freon 113	7.367	151	314268	231.72 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205393.D
Acq On : 12 Feb 2013 12:25 am
Operator : EmilyT
Sample : IC8379-200
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 12:57:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:52:06 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
49) methacrylonitrile	9.971	41	291155	183.84 ug/L	100
50) t-butyl formate	10.164	59	448604	197.55 ug/L	98
51) 1,1,1-trichloroethane	10.384	97	641117	209.33 ug/L	98
52) tert-amyl methyl ether	10.865	73	1479698	207.73 ug/L	99
54) cyclohexane	10.483	84	686601	214.77 ug/L	99
55) tert amyl alcohol	10.656	55	92000	962.64 ug/L	97
56) 2,2,4-trimethylpentane	10.865	57	1732519	225.51 ug/L	99
57) epichlorohydrin	12.433	57	272031	1038.67 ug/L	98
58) n-butyl alcohol	11.257	56	813451	10250.17 ug/L	99
59) carbon tetrachloride	10.593	117	570107	214.66 ug/L	99
60) 1,1-dichloropropene	10.551	75	578839	210.85 ug/L	99
61) hexane	8.795	57	527875	208.95 ug/L	98
62) benzene	10.813	78	1702389	208.19 ug/L	99
63) heptane	11.017	57	319796	225.64 ug/L	99
64) isopropyl acetate	10.729	43	899873	201.33 ug/L	99
65) 1,2-dichloroethane	10.802	62	591979	215.46 ug/L	99
66) Ethyl Acrylate	11.513	55	647730	209.44 ug/L	99
67) trichloroethene	11.518	95	429896	213.50 ug/L	97
68) 2-nitropropane	12.313	43	1280400	212.39 ug/L	100
69) 2-chloroethyl vinyl ether	12.318	63	1687555	1135.15 ug/L	98
70) methyl methacrylate	11.785	100	136452	225.84 ug/L	95
71) tert-amyl ethyl ether	11.717	87	669061	222.35 ug/L	98
72) 1,2-dichloropropane	11.785	63	488159	221.93 ug/L	99
73) methylcyclohexane	11.785	83	779890	228.97 ug/L	97
74) dibromomethane	11.926	93	281691	217.84 ug/L	99
75) bromodichloromethane	12.062	83	589835	220.72 ug/L	98
76) cis-1,3-dichloropropene	12.548	75	763461	220.37 ug/L	99
78) 4-methyl-2-pentanone	12.658	58	211844	220.46 ug/L	98
79) toluene	12.956	92	1098024	215.44 ug/L	99
80) 3-methyl-1-butanol	12.648	70	328058	4418.90 ug/L	97
81) trans-1,3-dichloropropene	13.129	75	729135	222.96 ug/L	93
82) ethyl methacrylate	13.144	69	690250	225.68 ug/L	100
83) 1,1,2-trichloroethane	13.364	83	348768	216.34 ug/L	99
84) 2-hexanone	13.563	58	203921	232.84 ug/L	97
86) tetrachloroethene	13.589	166	509825	206.51 ug/L	99
87) 1,3-dichloropropane	13.563	76	752569	208.03 ug/L	99
88) butyl acetate	13.651	56	341383	214.27 ug/L	99
89) 3,3-dimethyl-1-butanol	13.735	57	586126	2050.61 ug/L	98
90) dibromochloromethane	13.850	129	490221	213.34 ug/L	97
91) 1,2-dibromoethane	14.023	107	445681	209.31 ug/L	98
92) chlorobenzene	14.545	112	1263379	206.23 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.608	131	487033	214.85 ug/L	98
94) ethylbenzene	14.619	91	2165106	203.28 ug/L	98
95) m,p-xylene	14.734	106	1691618	398.57 ug/L	95
96) o-xylene	15.199	106	870286	206.62 ug/L	99
97) styrene	15.199	104	1510928	213.06 ug/L	97
98) bromoform	15.471	173	399672	224.64 ug/L	99
100) isopropylbenzene	15.586	105	2225286	205.63 ug/L	98
102) bromobenzene	16.014	156	617344	209.91 ug/L	99
103) cyclohexanone	15.743	55	141077	1617.77 ug/L	99
104) 1,1,2,2-tetrachloroethane	15.879	83	646062	193.61 ug/L	99
105) trans-1,4-dichloro-2-b...	15.931	53	198653	218.17 ug/L	99
106) 1,2,3-trichloropropane	15.973	110	186794	197.17 ug/L	97
107) n-propylbenzene	16.041	91	2600920	201.70 ug/L	98
108) p-ethyltoluene	16.156	105	2131107	206.30 ug/L	99
109) 2-chlorotoluene	16.197	126	572742	213.12 ug/L	99
110) 4-chlorotoluene	16.307	91	1729227	205.42 ug/L	98
111) 1,3,5-trimethylbenzene	16.208	105	1987115	197.54 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205393.D
Acq On : 12 Feb 2013 12:25 am
Operator : EmilyT
Sample : IC8379-200
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 12:57:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:52:06 2013
Response via : Initial Calibration

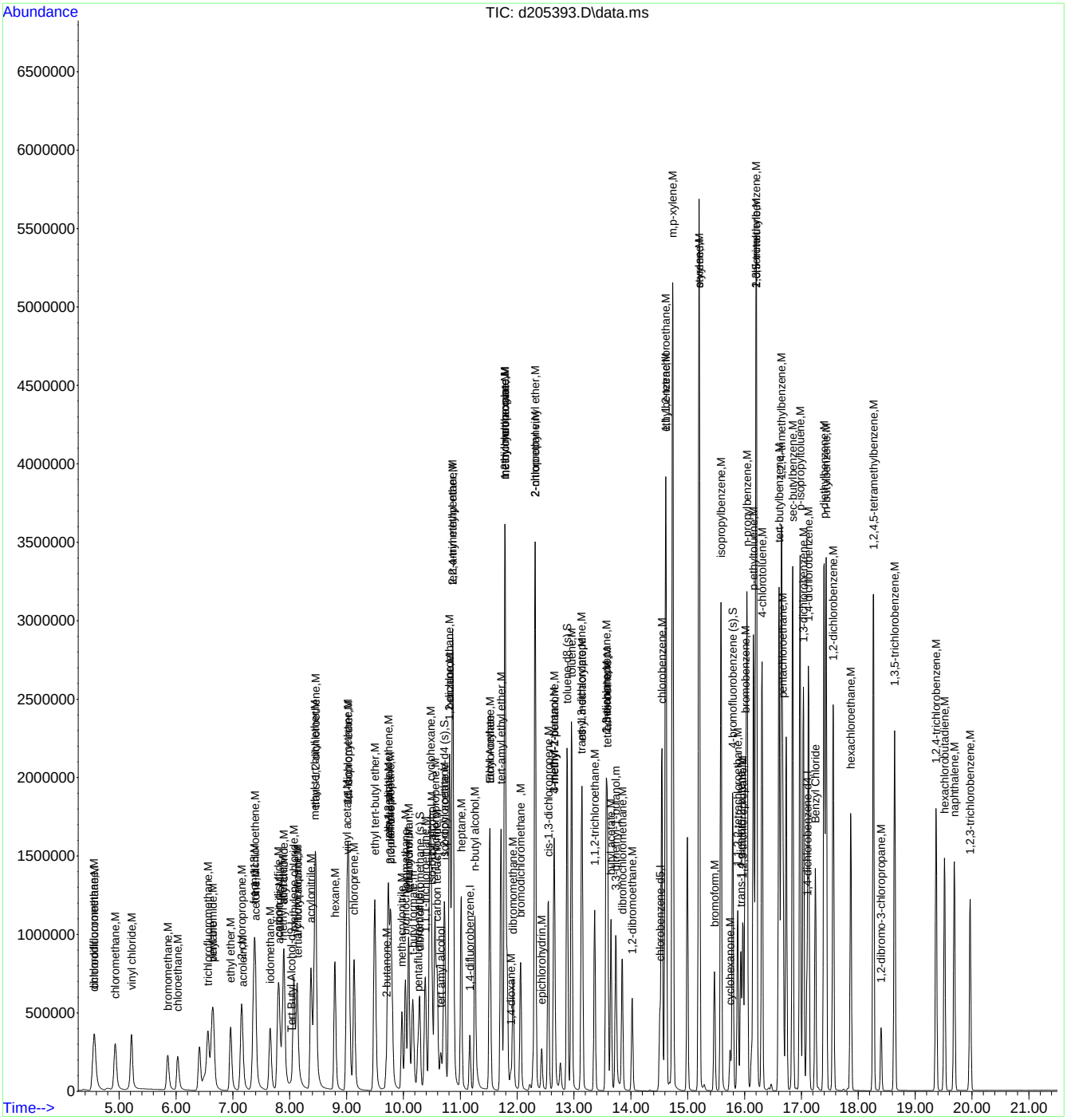
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
112) tert-butylbenzene	16.605	119	1719396	203.65 ug/L	98
113) pentachloroethane	16.673	167	375883	199.65 ug/L	99
114) 1,2,4-trimethylbenzene	16.647	105	2027898	198.33 ug/L	99
115) sec-butylbenzene	16.846	105	2466539	198.33 ug/L	97
116) 1,3-dichlorobenzene	17.034	146	1155369	199.19 ug/L	99
117) p-isopropyltoluene	16.976	119	2071064	201.07 ug/L	99
118) 1,4-dichlorobenzene	17.123	146	1185603	195.84 ug/L	98
119) Benzyl Chloride	17.243	91	1103137	199.26 ug/L	99
120) p-diethylbenzene	17.400	119	1264269	194.91 ug/L	99
121) 1,2-dichlorobenzene	17.557	146	1103047	187.14 ug/L	98
122) n-butylbenzene	17.436	92	1157427	204.57 ug/L	97
123) 1,2,4,5-tetramethylben...	18.268	119	1840834	193.06 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.398	75	113120	160.85 ug/L	98
125) 1,3,5-trichlorobenzene	18.639	180	824422	183.40 ug/L	99
126) 1,2,4-trichlorobenzene	19.371	180	659026	180.85 ug/L	99
127) hexachlorobutadiene	19.517	225	368060	167.37 ug/L	98
128) naphthalene	19.690	128	1331225	157.80 ug/L	99
129) 1,2,3-trichlorobenzene	19.967	180	462723	150.28 ug/L	97
130) hexachloroethane	17.865	119	391610	200.84 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205393.D
Acq On : 12 Feb 2013 12:25 am
Operator : EmilyT
Sample : IC8379-200
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 12:57:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:52:06 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205393.D	**Analyst approved:**	02/19/13 14:55 Emily Tran
Injection Time:	02/12/13 00:25	**Supervisor approved:**	02/19/13 23:04 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Overlapping peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205393.D
Acq On    : 12 Feb 2013  12:25 am
Operator  : EmilyT
Sample    : IC8379-200
Misc      : ms42807,vd8379,5,,100,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Feb 12 08:48:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Tue Feb 12 08:35:16 2013
Response via : Initial Calibration
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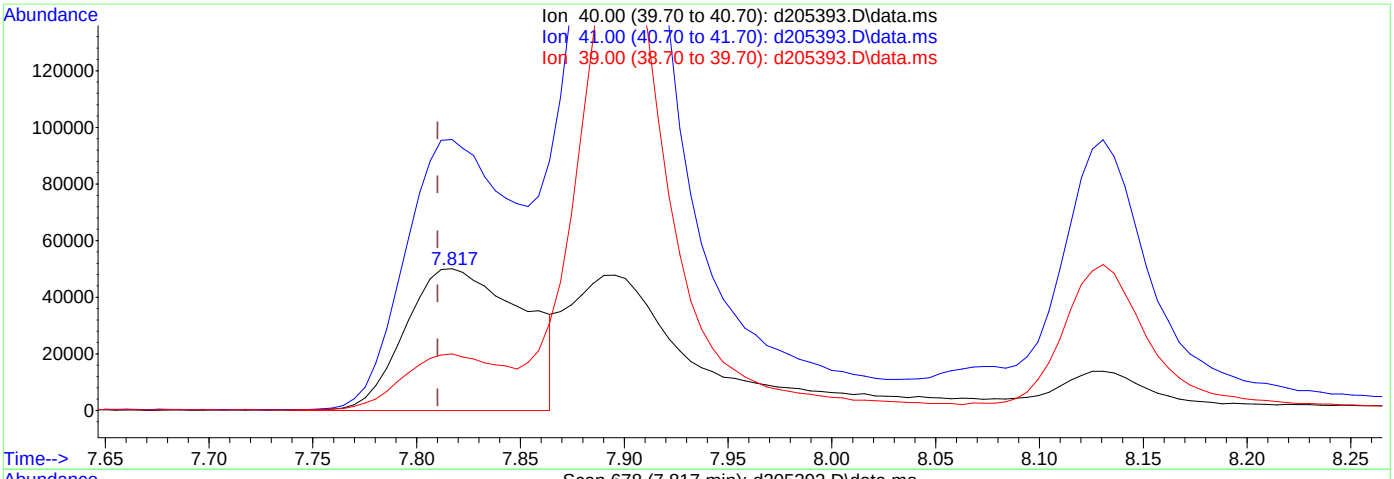
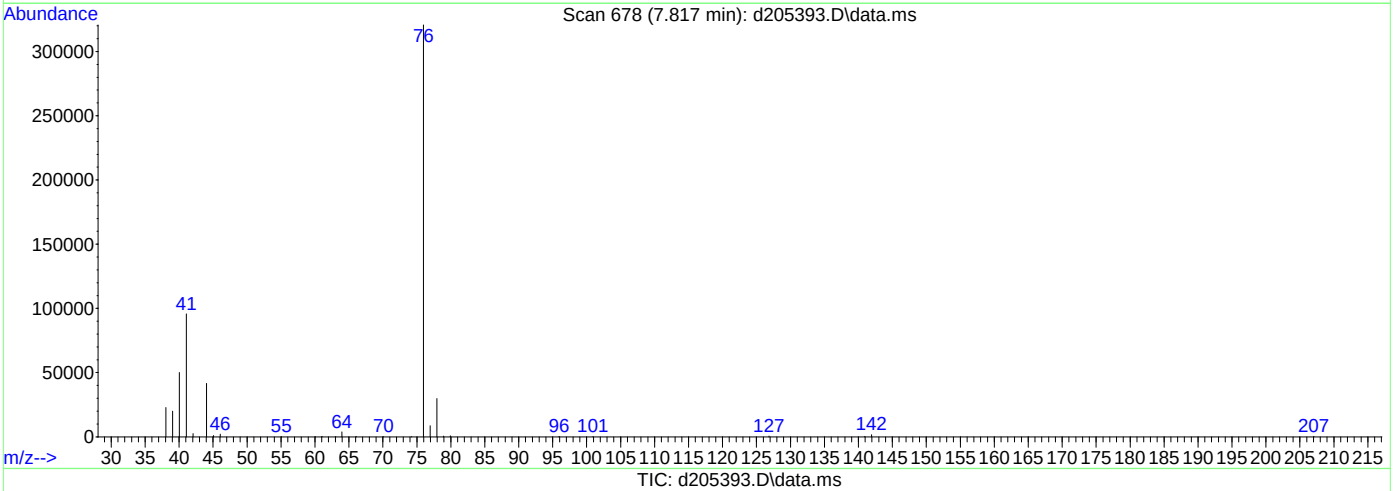




(22) acetonitrile (M)

7.817min (+0.007) 1391.61ug/L m

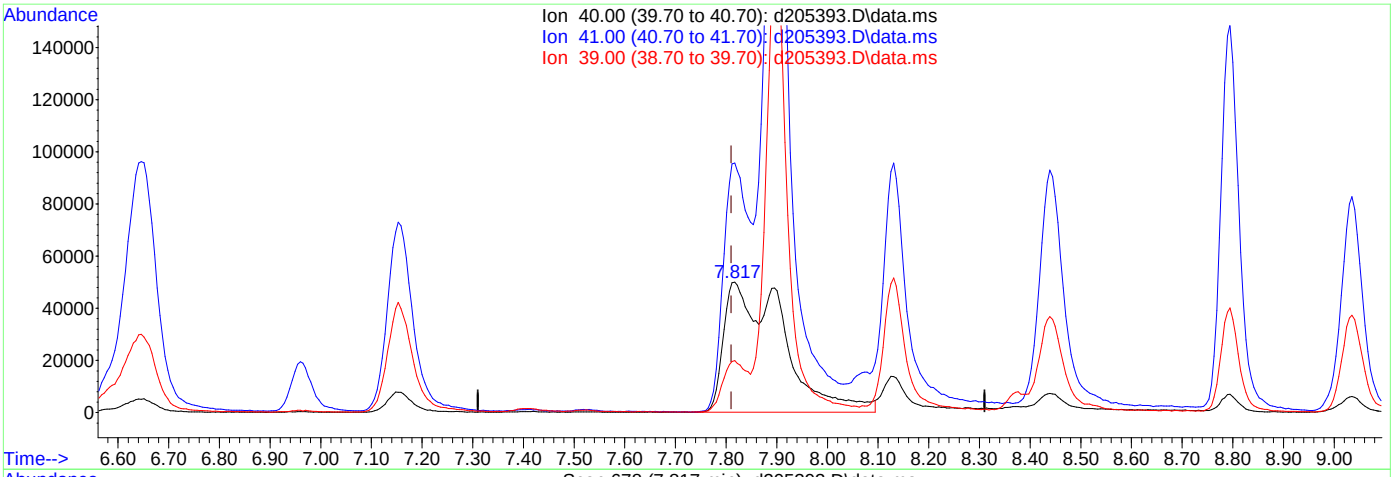
response 198401

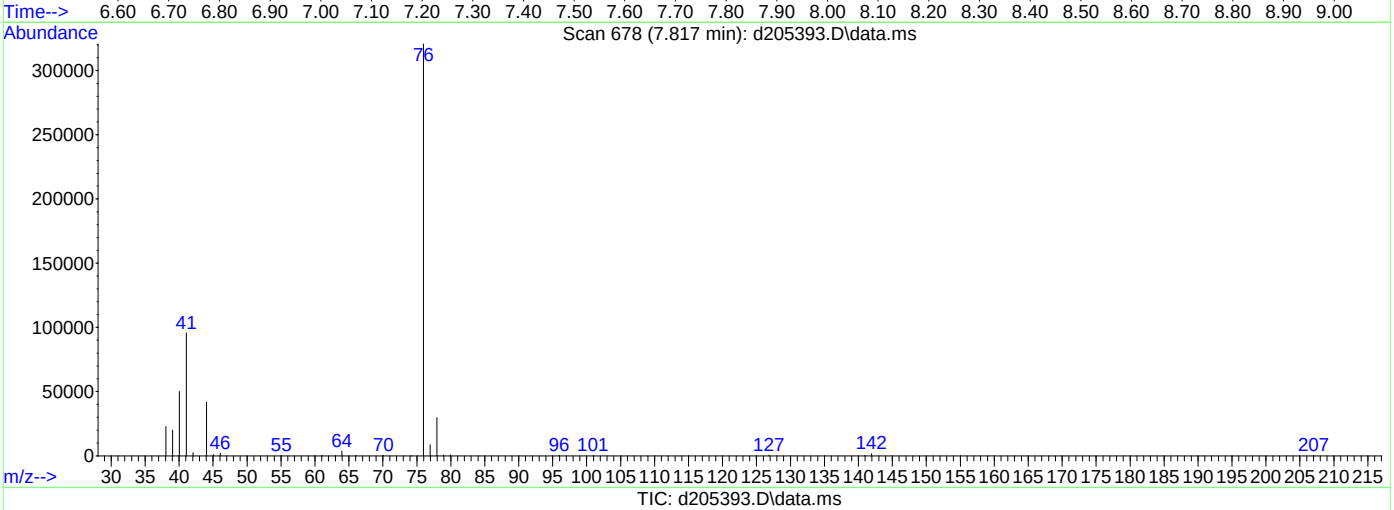
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	191.32
39.00	37.10	39.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205393.D
Acq On : 12 Feb 2013 12:25 am
Operator : EmilyT
Sample : IC8379-200
Misc : ms42807,vd8379,5,,100,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 12 09:32:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:12:31 2013
Response via : Initial Calibration





(22) acetonitrile (M)

7.817min (+0.007) 3693.43ug/L

response 410548

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	191.18
39.00	37.10	39.49
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/19/13 23:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:48:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.026	65	131684	500.00 ug/L	0.01
4) pentafluorobenzene	10.253	168	200497	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	306871	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	286103	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	175439	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	95943	49.00 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.00%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	111635	47.22 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 94.44%		
77) toluene-d8 (s)	12.877	98	374927	50.42 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 100.84%		
101) 4-bromofluorobenzene (s)	15.789	95	151441	47.52 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.04%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	30687	1225.48 ug/L	97
3) tertiary butyl alcohol	8.130	59	70916	252.73 ug/L #	76
6) chlorodifluoromethane	4.570	51	118181	53.92 ug/L	99
7) dichlorodifluoromethane	4.549	85	123459	45.97 ug/L	98
8) chloromethane	4.915	50	127889	42.77 ug/L	99
9) vinyl chloride	5.192	62	135097	44.53 ug/L	98
10) bromomethane	5.867	94	82685	48.67 ug/L	100
11) chloroethane	6.055	64	77162	45.25 ug/L	98
13) trichlorofluoromethane	6.567	101	151922	47.19 ug/L	98
14) pentane	6.651	43	172769	49.32 ug/L	99
15) ethyl ether	6.959	74	65163	45.62 ug/L	99
16) acrolein	7.189	56	251441	439.85 ug/L	100
18) 2-chloropropane	7.163	43	192079	45.71 ug/L	100
19) 1,1-dichloroethene	7.393	96	99841	49.22 ug/L	98
20) acetone	7.404	58	10609m	47.29 ug/L	
21) allyl chloride	7.900	41	267910	55.28 ug/L	99
22) acetonitrile	7.827	40	47295m	428.48 ug/L	
24) iodomethane	7.660	142	188276	52.41 ug/L	99
26) carbon disulfide	7.801	76	353884	50.70 ug/L	99
27) methylene chloride	8.073	84	118302	47.43 ug/L	99
28) 1-chloropropane	8.136	42	196751	46.77 ug/L	99
29) methyl acetate	7.869	43	94526	44.80 ug/L	100
30) methyl tert butyl ether	8.444	73	686297	101.01 ug/L	98
31) trans-1,2-dichloroethene	8.460	96	105077	49.78 ug/L	97
32) di-isopropyl ether	9.035	45	358849	50.12 ug/L	99
33) ethyl tert-butyl ether	9.495	59	355176	49.69 ug/L	100
34) 2-butanone	9.694	72	12029	42.04 ug/L #	95
35) 1,1-dichloroethane	9.014	63	193841	51.38 ug/L	99
36) chloroprene	9.134	53	146831	48.99 ug/L	99
37) acrylonitrile	8.371	53	246549	264.96 ug/L	99
38) vinyl acetate	8.993	86	24184	53.40 ug/L	96
39) ethyl acetate	9.720	45	15014	43.57 ug/L	40
40) 2,2-dichloropropane	9.767	77	163047	58.67 ug/L	100
41) cis-1,2-dichloroethene	9.735	96	115857	51.45 ug/L	98
42) propionitrile	9.772	54	187804	512.21 ug/L	91
43) bromochloromethane	10.033	128	57617	53.15 ug/L	99
44) tetrahydrofuran	10.096	72	16647	48.36 ug/L #	82
45) chloroform	10.091	83	179546	51.73 ug/L	98
48) freon 113	7.372	151	67377	47.40 ug/L	99
49) methacrylonitrile	9.971	41	73049	46.45 ug/L	100
50) t-butyl formate	10.164	59	118149	52.40 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:48:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) 1,1,1-trichloroethane	10.389	97	157242	51.70 ug/L	96
52) tert-amyl methyl ether	10.865	73	345831	48.89 ug/L	100
54) cyclohexane	10.483	84	167432	52.67 ug/L	96
55) tert amyl alcohol	10.650	55	44570	444.05 ug/L	92
56) 2,2,4-trimethylpentane	10.865	57	392688	51.40 ug/L	99
57) epichlorohydrin	12.428	57	66385	254.91 ug/L	98
58) n-butyl alcohol	11.246	56	183669	2327.55 ug/L	98
59) carbon tetrachloride	10.593	117	137950	52.24 ug/L	98
60) 1,1-dichloropropene	10.551	75	137556	50.39 ug/L	99
61) hexane	8.794	57	124929	49.73 ug/L	98
62) benzene	10.812	78	406916	50.05 ug/L	99
63) heptane	11.016	57	78091	55.41 ug/L	99
64) isopropyl acetate	10.723	43	216167	48.64 ug/L	100
65) 1,2-dichloroethane	10.797	62	140777	51.53 ug/L	99
66) Ethyl Acrylate	11.508	55	138407	45.01 ug/L	99
67) trichloroethene	11.518	95	100724	50.31 ug/L	97
68) 2-nitropropane	12.313	43	296848	49.52 ug/L	99
69) 2-chloroethyl vinyl ether	12.313	63	389951	255.61 ug/L	100
70) methyl methacrylate	11.785	100	31154	51.86 ug/L	98
71) tert-amyl ethyl ether	11.717	87	326760	106.24 ug/L	99
72) 1,2-dichloropropane	11.785	63	112850	51.60 ug/L	100
73) methylcyclohexane	11.785	83	173197	51.14 ug/L	100
74) dibromomethane	11.926	93	67741	52.68 ug/L	97
75) bromodichloromethane	12.057	83	140269	52.79 ug/L	99
76) cis-1,3-dichloropropene	12.543	75	183824	53.36 ug/L	98
78) 4-methyl-2-pentanone	12.653	58	49057	51.34 ug/L	99
79) toluene	12.956	92	255946	50.50 ug/L	97
80) 3-methyl-1-butanol	12.642	70	73313	993.13 ug/L	97
81) trans-1,3-dichloropropene	13.128	75	173578	53.38 ug/L	96
82) ethyl methacrylate	13.144	69	156681	51.52 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	82001	51.15 ug/L	100
84) 2-hexanone	13.562	58	39821	45.73 ug/L	100
86) tetrachloroethene	13.588	166	111847	47.76 ug/L	96
87) 1,3-dichloropropane	13.562	76	173319	50.51 ug/L	100
88) butyl acetate	13.646	56	75712	50.09 ug/L	98
89) 3,3-dimethyl-1-butanol	13.735	57	159412	587.93 ug/L	99
90) dibromochloromethane	13.845	129	112530	51.63 ug/L	97
91) 1,2-dibromoethane	14.022	107	104452	51.71 ug/L	98
92) chlorobenzene	14.545	112	289368	49.80 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.603	131	112262	52.21 ug/L	99
94) ethylbenzene	14.613	91	493368	48.83 ug/L	100
95) m,p-xylene	14.733	106	384088	95.40 ug/L	100
96) o-xylene	15.199	106	196430	49.16 ug/L	99
97) styrene	15.199	104	340883	50.67 ug/L	98
98) bromoform	15.470	173	87292	51.72 ug/L	99
100) isopropylbenzene	15.580	105	511390	48.79 ug/L	98
102) bromobenzene	16.014	156	137428	48.24 ug/L	99
103) cyclohexanone	15.748	55	28282	348.13 ug/L	99
104) 1,1,2,2-tetrachloroethane	15.878	83	148644	45.99 ug/L	99
105) trans-1,4-dichloro-2-b...	15.931	53	47091	53.39 ug/L	99
106) 1,2,3-trichloropropane	15.967	110	42744	46.58 ug/L	88
107) n-propylbenzene	16.040	91	591502	47.36 ug/L	100
108) p-ethyltoluene	16.155	105	464819	46.45 ug/L	98
109) 2-chlorotoluene	16.197	126	127505	48.98 ug/L	99
110) 4-chlorotoluene	16.302	91	387819	47.56 ug/L	100
111) 1,3,5-trimethylbenzene	16.208	105	448853	46.06 ug/L	100
112) tert-butylbenzene	16.605	119	382861	46.81 ug/L	100
113) pentachloroethane	16.673	167	91854	50.37 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:48:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.647	105	467291	47.18 ug/L	99
115) sec-butylbenzene	16.845	105	585006	48.56 ug/L	99
116) 1,3-dichlorobenzene	17.034	146	270110	48.08 ug/L	99
117) p-isopropyltoluene	16.971	119	485260	48.64 ug/L	99
118) 1,4-dichlorobenzene	17.123	146	281465	48.00 ug/L	99
119) Benzyl Chloride	17.243	91	359955	67.12 ug/L	99
120) p-diethylbenzene	17.394	119	287668	48.12 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	270155	47.32 ug/L	99
122) n-butylbenzene	17.431	92	274545	50.10 ug/L	99
123) 1,2,4,5-tetramethylben...	18.262	119	442901	47.95 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.398	75	28315	45.13 ug/L	97
125) 1,3,5-trichlorobenzene	18.639	180	208477	47.88 ug/L	99
126) 1,2,4-trichlorobenzene	19.365	180	172184	48.78 ug/L	98
127) hexachlorobutadiene	19.517	225	96106	46.75 ug/L	97
128) naphthalene	19.689	128	360314	46.41 ug/L	98
129) 1,2,3-trichlorobenzene	19.967	180	133296	46.92 ug/L	97
130) hexachloroethane	17.865	119	92189	48.81 ug/L	97

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

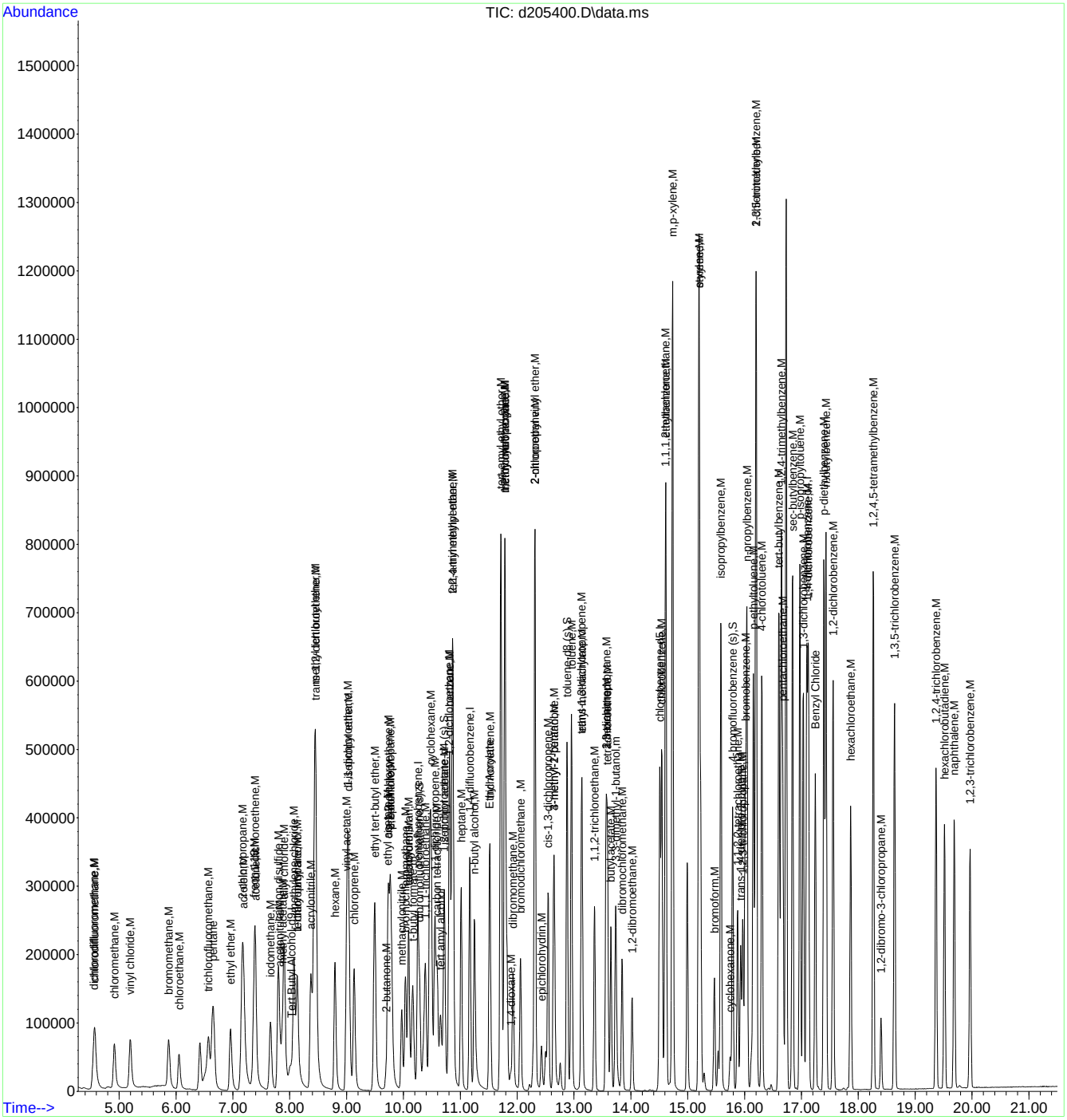
7.7.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:48:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

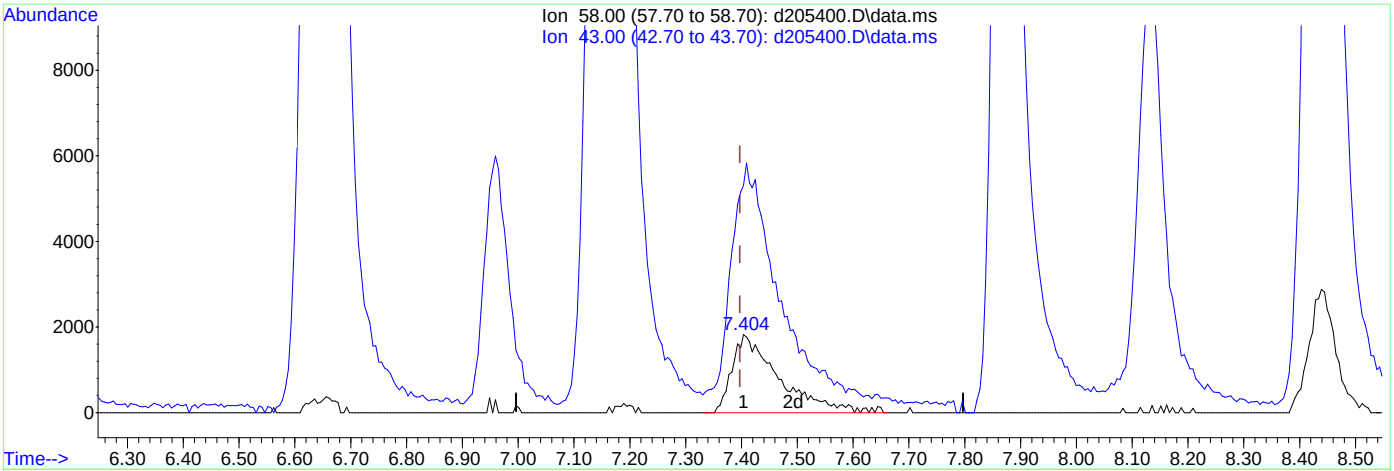
Sample Number:	VD8380-ICV8379	**Method:**	SW846 8260B
Lab FileID:	D205400.D	**Analyst approved:**	02/13/13 12:12 Ying Li
Injection Time:	02/12/13 16:21	**Supervisor approved:**	02/19/13 23:05 Kanya Veerawat

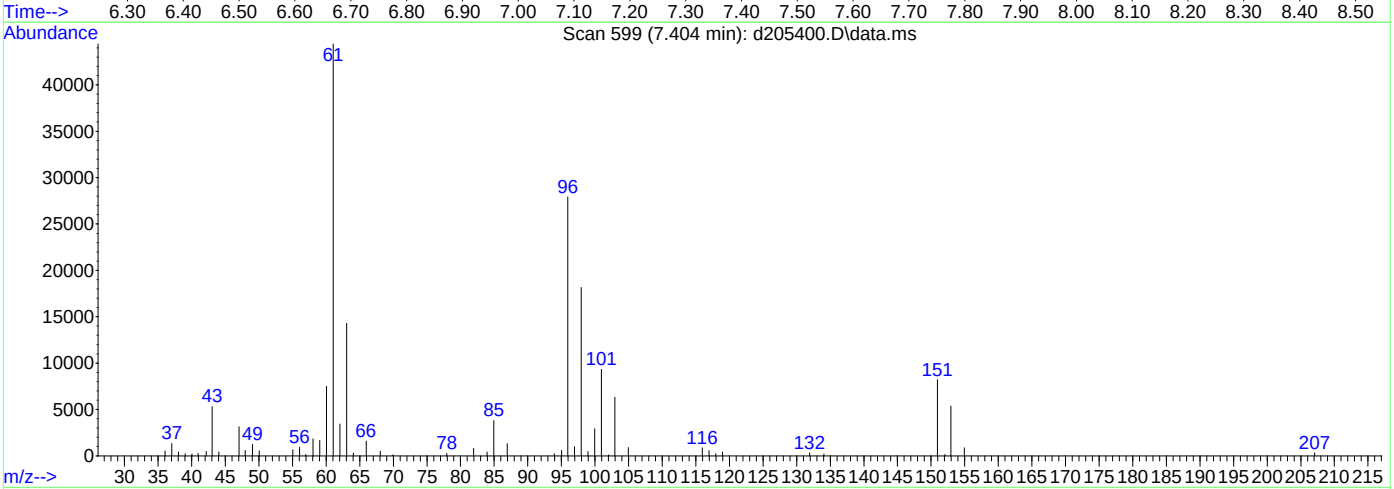
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		7.40	Split peak
Acetonitrile	75-05-8		7.83	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:47:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration





TIC: d205400.D\data.ms

(20) acetone (M)

7.404min (+0.007) 47.29ug/L m

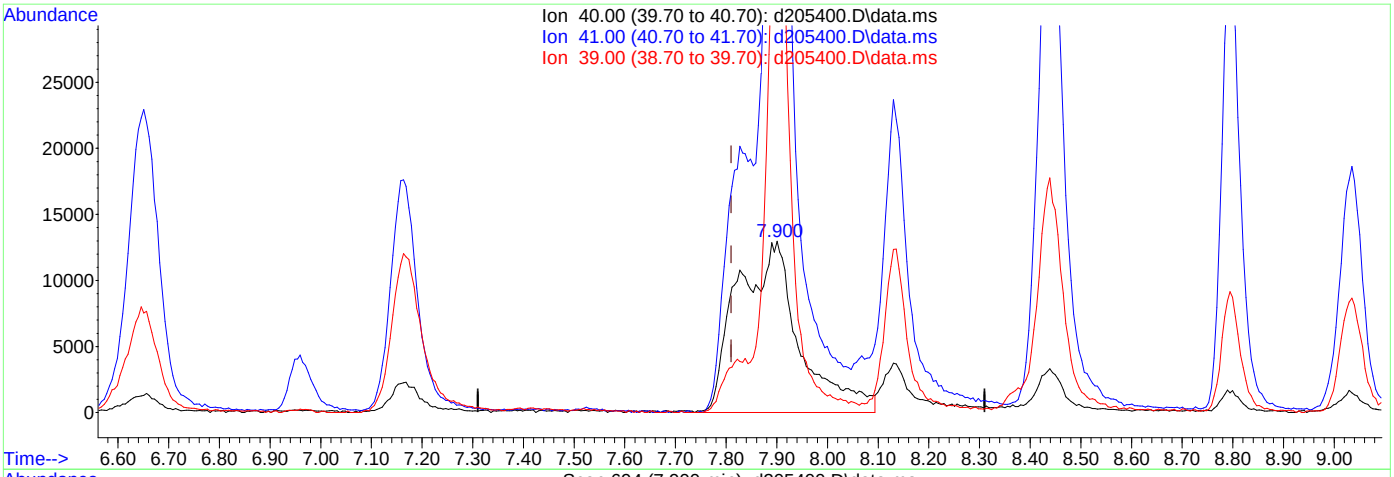
response 10609

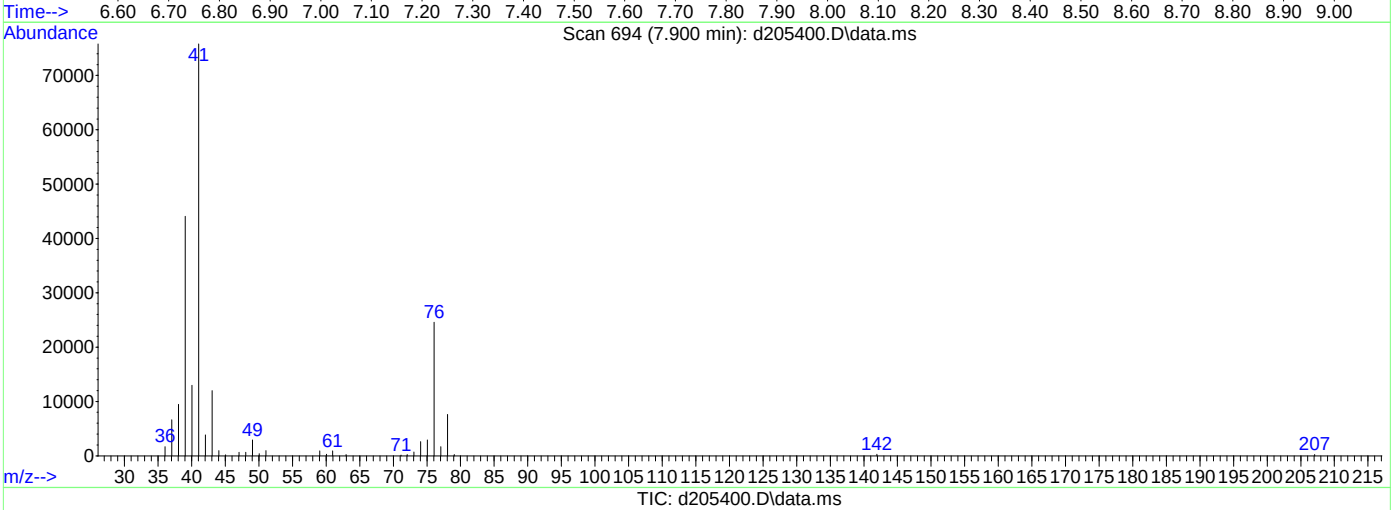
Ion	Exp%	Act%
58.00	100	100
43.00	306.80	291.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:47:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration





TIC: d205400.D\data.ms

(22) acetonitrile (M)

7.900min (+0.090) 1003.29ug/L

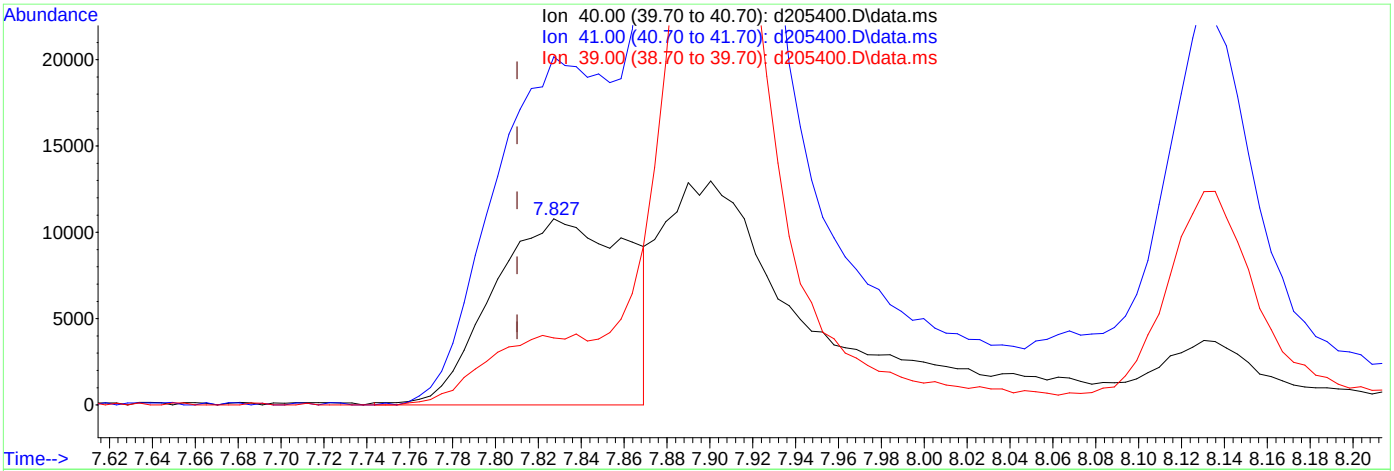
response 110741

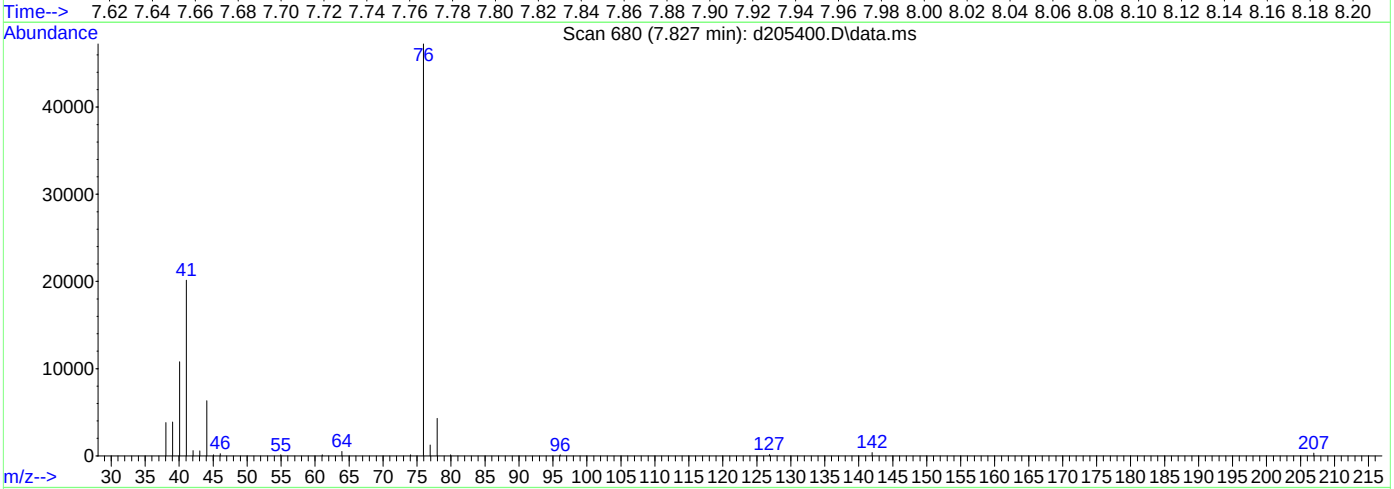
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	584.75#
39.00	37.10	339.82#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 12 16:47:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 12 09:47:05 2013
Response via : Initial Calibration





TIC: d205400.D\data.ms

(22) acetonitrile (M)

7.827min (+0.017) 428.48ug/L m

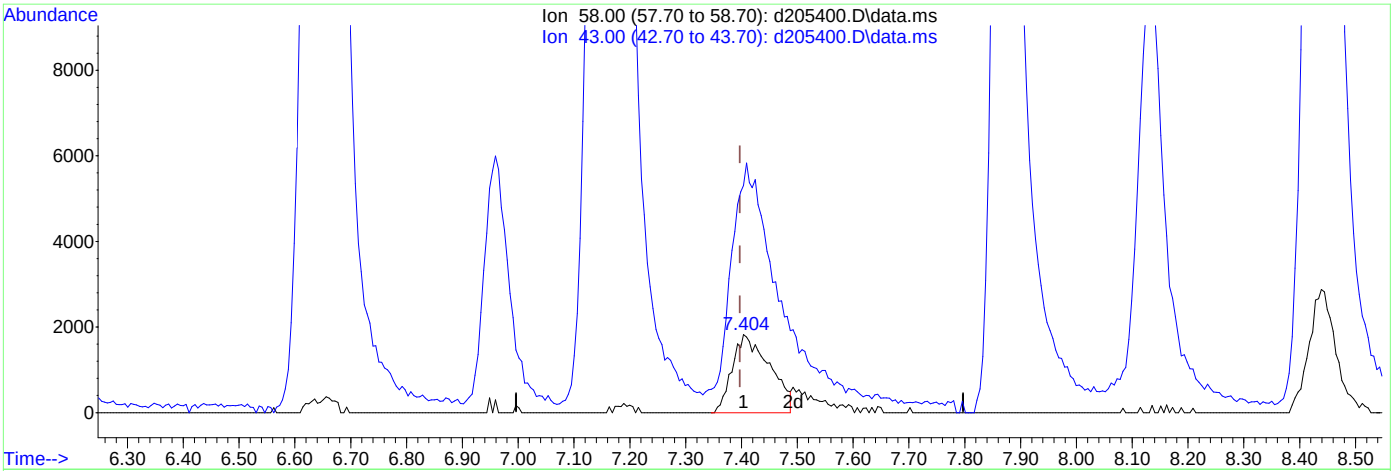
response 47295

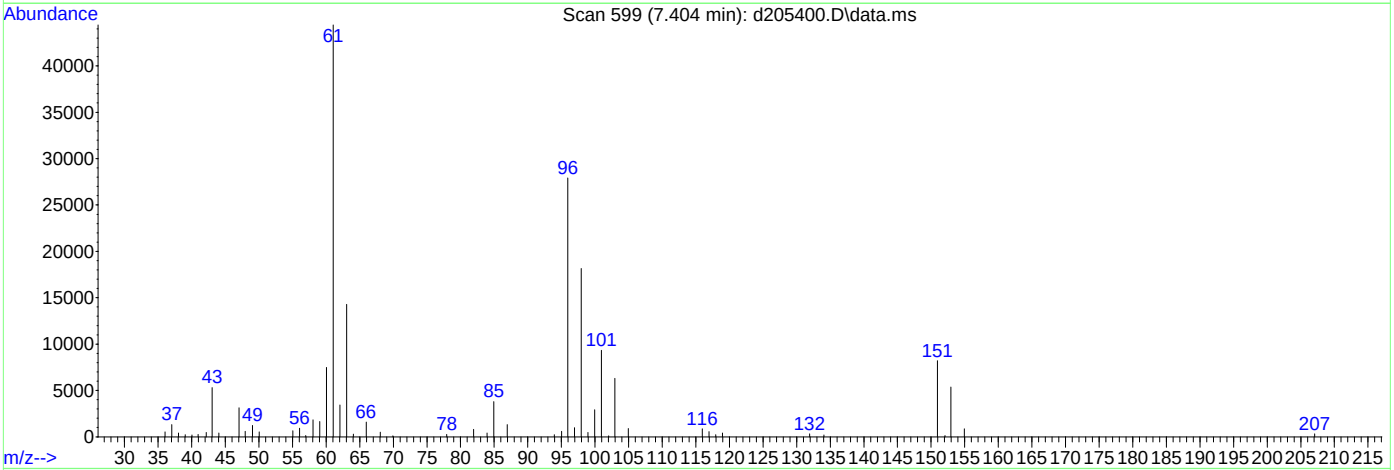
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	186.94
39.00	37.10	35.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\Snapshot\
Data File : d205400.D
Acq On : 12 Feb 2013 4:21 pm
Operator : EmilyT
Sample : ICV8379-50
Misc : ms42807,vd8380,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:46:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration





(20) acetone (M)

7.404min (+0.007) 37.80ug/L

response 8480

Ion	Exp%	Act%
58.00	100	100
43.00	306.80	291.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205879.D
Acq On : 26 Feb 2013 10:24 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 26 16:59:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.015	65	148203	500.00 ug/L	0.00
4) pentafluorobenzene	10.247	168	234346	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.162	114	360668	50.00 ug/L	0.00
85) chlorobenzene-d5	14.503	117	335660	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	200303	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.278	113	112111	48.99 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.98%		
47) 1,2-dichloroethane-d4 (s)	10.702	65	137959	49.93 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.86%		
77) toluene-d8 (s)	12.872	98	433862	49.64 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.28%		
101) 4-bromofluorobenzene (s)	15.789	95	177277	48.72 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.44%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.883	88	14987	531.79 ug/L	92
3) tertiary butyl alcohol	8.125	59	34865	110.40 ug/L #	75
6) chlorodifluoromethane	4.570	51	50880	19.86 ug/L	94
7) dichlorodifluoromethane	4.554	85	86350	27.51 ug/L	100
8) chloromethane	4.915	50	68368	19.56 ug/L	98
9) vinyl chloride	5.207	62	72918	20.56 ug/L	99
10) bromomethane	5.866	94	42562	21.44 ug/L	97
11) chloroethane	6.044	64	37279	18.70 ug/L	98
13) trichlorofluoromethane	6.572	101	88372	23.49 ug/L	98
15) ethyl ether	6.953	74	32220	19.30 ug/L	94
16) acrolein	7.173	56	129521	193.85 ug/L	97
18) 2-chloropropane	7.152	43	100057	20.37 ug/L	95
19) 1,1-dichloroethene	7.387	96	48963	20.65 ug/L	97
20) acetone	7.403	58	5747	21.92 ug/L	99
21) allyl chloride	7.895	41	107026	18.89 ug/L	97
22) acetonitrile	7.821	40	33726	261.42 ug/L	98
24) iodomethane	7.654	142	88301	21.03 ug/L	99
26) carbon disulfide	7.785	76	174081	21.34 ug/L	99
27) methylene chloride	8.067	84	56453	19.36 ug/L	97
28) 1-chloropropane	8.125	42	94252	19.17 ug/L	95
29) methyl acetate	7.863	43	44725	18.13 ug/L	99
30) methyl tert butyl ether	8.433	73	166162	20.92 ug/L	98
31) trans-1,2-dichloroethene	8.454	96	52545	21.30 ug/L	99
32) di-isopropyl ether	9.019	45	171051	20.44 ug/L	97
33) ethyl tert-butyl ether	9.484	59	172811	20.68 ug/L	98
34) 2-butanone	9.688	72	6600	19.74 ug/L #	92
35) 1,1-dichloroethane	9.003	63	96085	21.79 ug/L	98
36) chloroprene	9.123	53	71428	20.39 ug/L	96
37) acrylonitrile	8.365	53	112690	103.61 ug/L	99
38) vinyl acetate	8.987	86	9640	18.21 ug/L	96
39) ethyl acetate	9.719	45	7713	19.15 ug/L	96
40) 2,2-dichloropropane	9.766	77	83251	25.63 ug/L	99
41) cis-1,2-dichloroethene	9.724	96	56506	21.47 ug/L	99
42) propionitrile	9.766	54	88313	206.07 ug/L	97
43) bromochloromethane	10.028	128	27363	21.60 ug/L	98
44) tetrahydrofuran	10.090	72	7920	19.69 ug/L	97
45) chloroform	10.085	83	90480	22.30 ug/L	96
48) freon 113	7.377	151	35759	21.52 ug/L	99
49) methacrylonitrile	9.960	41	35178	19.14 ug/L	98
50) t-butyl formate	10.153	59	51168	19.41 ug/L	95
51) 1,1,1-trichloroethane	10.378	97	81020	22.79 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205879.D
Acq On : 26 Feb 2013 10:24 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 26 16:59:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.859	73	162805	19.69 ug/L	97
54) cyclohexane	10.477	84	85912	22.99 ug/L	99
56) 2,2,4-trimethylpentane	10.859	57	200042	22.28 ug/L	99
57) epichlorohydrin	12.422	57	30333	99.10 ug/L	97
58) n-butyl alcohol	11.246	56	85421	921.03 ug/L	97
59) carbon tetrachloride	10.587	117	70401	22.68 ug/L	100
60) 1,1-dichloropropene	10.550	75	69992	21.82 ug/L	99
61) hexane	8.789	57	56473	19.13 ug/L	100
62) benzene	10.807	78	203029	21.25 ug/L	99
63) heptane	11.010	57	36886	22.27 ug/L	97
64) isopropyl acetate	10.718	43	97819	18.73 ug/L	98
65) 1,2-dichloroethane	10.791	62	70891	22.08 ug/L	99
67) trichloroethene	11.512	95	50173	21.32 ug/L	98
68) 2-nitropropane	12.307	43	134827	19.14 ug/L	99
69) 2-chloroethyl vinyl ether	12.307	63	175860	98.08 ug/L	100
70) methyl methacrylate	11.779	100	13663	19.35 ug/L	90
72) 1,2-dichloropropane	11.779	63	53485	20.81 ug/L	98
73) methylcyclohexane	11.784	83	87491	21.98 ug/L	98
74) dibromomethane	11.920	93	31852	21.08 ug/L	97
75) bromodichloromethane	12.051	83	66703	21.36 ug/L	99
76) cis-1,3-dichloropropene	12.537	75	85439	21.10 ug/L	96
78) 4-methyl-2-pentanone	12.652	58	22708	20.22 ug/L	98
79) toluene	12.950	92	124956	20.98 ug/L	96
80) 3-methyl-1-butanol	12.636	70	30905	356.21 ug/L	97
81) trans-1,3-dichloropropene	13.123	75	80326	21.02 ug/L	98
82) ethyl methacrylate	13.143	69	71910	20.12 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	38995	20.70 ug/L	97
84) 2-hexanone	13.562	58	21068	20.58 ug/L	97
86) tetrachloroethene	13.583	166	55465	20.19 ug/L	95
87) 1,3-dichloropropane	13.556	76	83134	20.65 ug/L	98
88) butyl acetate	13.645	56	35814	20.20 ug/L	98
89) 3,3-dimethyl-1-butanol	13.729	57	49914	156.91 ug/L	97
90) dibromochloromethane	13.844	129	51720	20.22 ug/L	98
91) 1,2-dibromoethane	14.017	107	49690	20.97 ug/L	99
92) chlorobenzene	14.539	112	139639	20.48 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.597	131	51299	20.33 ug/L	99
94) ethylbenzene	14.613	91	243760	20.56 ug/L	100
95) m,p-xylene	14.728	106	189067	40.03 ug/L	98
96) o-xylene	15.193	106	93570	19.96 ug/L	97
97) styrene	15.198	104	156490	19.83 ug/L	98
98) bromoform	15.465	173	38787	19.59 ug/L	99
100) isopropylbenzene	15.580	105	246309	20.58 ug/L	99
102) bromobenzene	16.008	156	66046	20.31 ug/L	97
103) cyclohexanone	15.737	55	20606	222.16 ug/L	96
104) 1,1,2,2-tetrachloroethane	15.872	83	68783	18.64 ug/L	100
105) trans-1,4-dichloro-2-b...	15.925	53	21530	21.38 ug/L	85
106) 1,2,3-trichloropropane	15.967	110	20609	19.67 ug/L #	77
107) n-propylbenzene	16.035	91	292398	20.50 ug/L	98
109) 2-chlorotoluene	16.191	126	60135	20.23 ug/L	98
110) 4-chlorotoluene	16.301	91	186970	20.08 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	212660	19.12 ug/L	98
112) tert-butylbenzene	16.599	119	182082	19.50 ug/L	99
113) pentachloroethane	16.667	167	41046	19.71 ug/L	97
114) 1,2,4-trimethylbenzene	16.641	105	217244	19.21 ug/L	99
115) sec-butylbenzene	16.840	105	278386	20.24 ug/L	98
116) 1,3-dichlorobenzene	17.028	146	127397	19.86 ug/L	98
117) p-isopropyltoluene	16.970	119	228079	20.02 ug/L	98
118) 1,4-dichlorobenzene	17.117	146	132035	19.72 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205879.D
Acq On : 26 Feb 2013 10:24 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 26 16:59:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

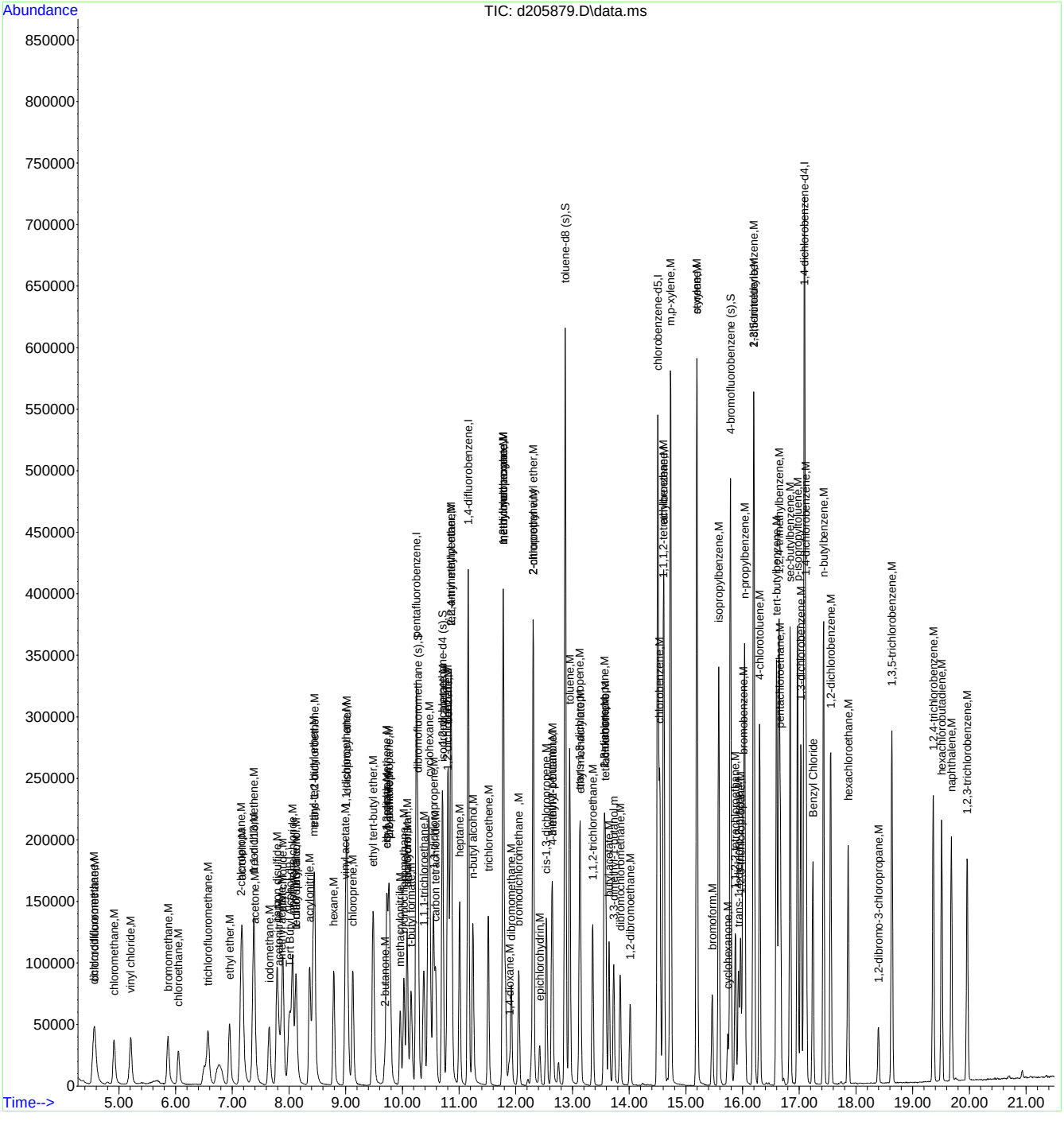
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.242	91	140702	22.98 ug/L	99
121) 1,2-dichlorobenzene	17.556	146	125892	19.31 ug/L	98
122) n-butylbenzene	17.430	92	121902	19.48 ug/L	97
124) 1,2-dibromo-3-chloropr...	18.392	75	12740	17.78 ug/L	86
125) 1,3,5-trichlorobenzene	18.633	180	101965	20.51 ug/L	98
126) 1,2,4-trichlorobenzene	19.365	180	85368	21.18 ug/L	99
127) hexachlorobutadiene	19.511	225	50394	21.47 ug/L	99
128) naphthalene	19.684	128	179206	20.22 ug/L	99
129) 1,2,3-trichlorobenzene	19.961	180	68884	21.24 ug/L	100
130) hexachloroethane	17.864	119	41717	19.35 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205879.D
Acq On : 26 Feb 2013 10:24 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms43452,vd8399,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 26 16:59:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205927.D
Acq On : 27 Feb 2013 12:22 pm
Operator : EmilyT
Sample : cc8379-20
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 16:14:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.021	65	139167	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	226257	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	343061	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	326325	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	193152	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.279	113	108470	49.09 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.18%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	130521	48.92 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.84%		
77) toluene-d8 (s)	12.877	98	415218	49.94 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.88%		
101) 4-bromofluorobenzene (s)	15.789	95	169999	48.45 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.90%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	11066	418.16 ug/L	94
3) tertiary butyl alcohol	8.136	59	31603	106.57 ug/L #	78
6) chlorodifluoromethane	4.570	51	42585	17.22 ug/L	94
7) dichlorodifluoromethane	4.554	85	74771	24.67 ug/L	97
8) chloromethane	4.905	50	65202	19.32 ug/L	98
9) vinyl chloride	5.182	62	68162	19.91 ug/L	99
10) bromomethane	5.867	94	40348	21.05 ug/L	97
11) chloroethane	6.055	64	35669	18.54 ug/L	96
13) trichlorofluoromethane	6.567	101	80018	22.03 ug/L	97
15) ethyl ether	6.954	74	30847	19.14 ug/L	97
16) acrolein	7.184	56	123991	192.20 ug/L	98
18) 2-chloropropane	7.158	43	93238	19.66 ug/L	96
19) 1,1-dichloroethene	7.388	96	45916	20.06 ug/L	99
20) acetone	7.404	58	5437	21.48 ug/L	90
21) allyl chloride	7.900	41	100692	18.41 ug/L	98
22) acetonitrile	7.832	40	28708	230.48 ug/L	98
24) iodomethane	7.655	142	84674	20.89 ug/L	98
26) carbon disulfide	7.796	76	164970	20.94 ug/L	100
27) methylene chloride	8.073	84	54600	19.40 ug/L	97
28) 1-chloropropane	8.130	42	90542	19.07 ug/L	95
29) methyl acetate	7.869	43	42028	17.65 ug/L	100
30) methyl tert butyl ether	8.434	73	163126	21.27 ug/L	99
31) trans-1,2-dichloroethene	8.460	96	49244	20.67 ug/L	97
32) di-isopropyl ether	9.030	45	164051	20.30 ug/L	99
33) ethyl tert-butyl ether	9.490	59	167186	20.73 ug/L	98
34) 2-butanone	9.688	72	6440	19.95 ug/L #	93
35) 1,1-dichloroethane	9.014	63	90397	21.23 ug/L	98
36) chloroprene	9.129	53	66895	19.78 ug/L	97
37) acrylonitrile	8.371	53	107817	102.67 ug/L	100
38) vinyl acetate	8.993	86	9066	17.74 ug/L	97
39) ethyl acetate	9.720	45	7324	18.84 ug/L	63
40) 2,2-dichloropropane	9.767	77	64126	20.45 ug/L	96
41) cis-1,2-dichloroethene	9.730	96	53956	21.23 ug/L	99
42) propionitrile	9.767	54	81248	196.37 ug/L	99
43) bromochloromethane	10.033	128	26017	21.27 ug/L	97
44) tetrahydrofuran	10.091	72	7395	19.04 ug/L	97
45) chloroform	10.086	83	85202	21.75 ug/L	99
48) freon 113	7.378	151	30107	18.77 ug/L	99
49) methacrylonitrile	9.965	41	33472	18.86 ug/L	96
50) t-butyl formate	10.159	59	48969	19.24 ug/L	96
51) 1,1,1-trichloroethane	10.378	97	76037	22.16 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205927.D
Acq On : 27 Feb 2013 12:22 pm
Operator : EmilyT
Sample : cc8379-20
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 16:14:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.859	73	158750	19.89 ug/L	99
54) cyclohexane	10.478	84	74046	20.84 ug/L	98
56) 2,2,4-trimethylpentane	10.859	57	140076	16.40 ug/L	96
57) epichlorohydrin	12.423	57	26271	90.24 ug/L	96
58) n-butyl alcohol	11.246	56	74665	846.38 ug/L	97
59) carbon tetrachloride	10.593	117	63696	21.57 ug/L	99
60) 1,1-dichloropropene	10.551	75	63469	20.80 ug/L	99
61) hexane	8.794	57	40248	14.33 ug/L	99
62) benzene	10.812	78	188826	20.77 ug/L	100
63) heptane	11.011	57	24264	15.40 ug/L	97
64) isopropyl acetate	10.718	43	92625	18.64 ug/L	97
65) 1,2-dichloroethane	10.797	62	65677	21.50 ug/L	98
67) trichloroethene	11.518	95	44500	19.88 ug/L	99
68) 2-nitropropane	12.308	43	123336	18.40 ug/L	99
69) 2-chloroethyl vinyl ether	12.313	63	160200	93.93 ug/L	98
70) methyl methacrylate	11.785	100	13056	19.44 ug/L	91
72) 1,2-dichloropropane	11.780	63	49608	20.29 ug/L	97
73) methylcyclohexane	11.785	83	69943	18.47 ug/L	100
74) dibromomethane	11.926	93	30288	21.07 ug/L	95
75) bromodichloromethane	12.051	83	62662	21.09 ug/L	98
76) cis-1,3-dichloropropene	12.543	75	76403	19.84 ug/L	97
78) 4-methyl-2-pentanone	12.653	58	21699	20.31 ug/L	98
79) toluene	12.956	92	115462	20.38 ug/L	98
80) 3-methyl-1-butanol	12.642	70	29469	357.09 ug/L	98
81) trans-1,3-dichloropropene	13.128	75	74116	20.39 ug/L	98
82) ethyl methacrylate	13.144	69	67763	19.93 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	37099	20.70 ug/L	98
84) 2-hexanone	13.562	58	19807	20.35 ug/L	99
86) tetrachloroethene	13.588	166	50651	18.96 ug/L	95
87) 1,3-dichloropropane	13.562	76	77910	19.91 ug/L	99
88) butyl acetate	13.646	56	34808	20.19 ug/L	98
89) 3,3-dimethyl-1-butanol	13.730	57	51791	167.47 ug/L	99
90) dibromochloromethane	13.845	129	49907	20.07 ug/L	96
91) 1,2-dibromoethane	14.017	107	47021	20.41 ug/L	97
92) chlorobenzene	14.540	112	130571	19.70 ug/L	98
93) 1,1,1,2-tetrachloroethane	14.603	131	48413	19.74 ug/L	98
94) ethylbenzene	14.613	91	224803	19.51 ug/L	99
95) m,p-xylene	14.733	106	174755	38.06 ug/L	99
96) o-xylene	15.193	106	87205	19.14 ug/L	99
97) styrene	15.199	104	146893	19.14 ug/L	98
98) bromoform	15.471	173	38081	19.78 ug/L	96
100) isopropylbenzene	15.580	105	224440	19.45 ug/L	98
102) bromobenzene	16.014	156	61700	19.67 ug/L	99
103) cyclohexanone	15.742	55	18175	203.21 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.873	83	67058	18.84 ug/L	97
105) trans-1,4-dichloro-2-b...	15.931	53	19092	19.66 ug/L	87
106) 1,2,3-trichloropropane	15.967	110	19265	19.07 ug/L	90
107) n-propylbenzene	16.040	91	258354	18.79 ug/L	100
109) 2-chlorotoluene	16.192	126	54821	19.13 ug/L	100
110) 4-chlorotoluene	16.302	91	166284	18.52 ug/L	99
111) 1,3,5-trimethylbenzene	16.202	105	194518	18.13 ug/L	99
112) tert-butylbenzene	16.600	119	160200	17.79 ug/L	99
113) pentachloroethane	16.673	167	38920	19.38 ug/L	97
114) 1,2,4-trimethylbenzene	16.647	105	199342	18.28 ug/L	98
115) sec-butylbenzene	16.840	105	240825	18.16 ug/L	99
116) 1,3-dichlorobenzene	17.034	146	115195	18.62 ug/L	97
117) p-isopropyltoluene	16.971	119	199125	18.13 ug/L	98
118) 1,4-dichlorobenzene	17.123	146	118522	18.36 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205927.D
Acq On : 27 Feb 2013 12:22 pm
Operator : EmilyT
Sample : cc8379-20
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 16:14:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.243	91	94144	15.95 ug/L	99
121) 1,2-dichlorobenzene	17.557	146	115132	18.32 ug/L	99
122) n-butylbenzene	17.431	92	102780	17.03 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.398	75	12032	17.42 ug/L	99
125) 1,3,5-trichlorobenzene	18.639	180	90470	18.87 ug/L	100
126) 1,2,4-trichlorobenzene	19.365	180	77159	19.86 ug/L	99
127) hexachlorobutadiene	19.517	225	40927	18.08 ug/L	95
128) naphthalene	19.684	128	169938	19.88 ug/L	100
129) 1,2,3-trichlorobenzene	19.967	180	63144	20.19 ug/L	98
130) hexachloroethane	17.865	119	37459	18.01 ug/L	96

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

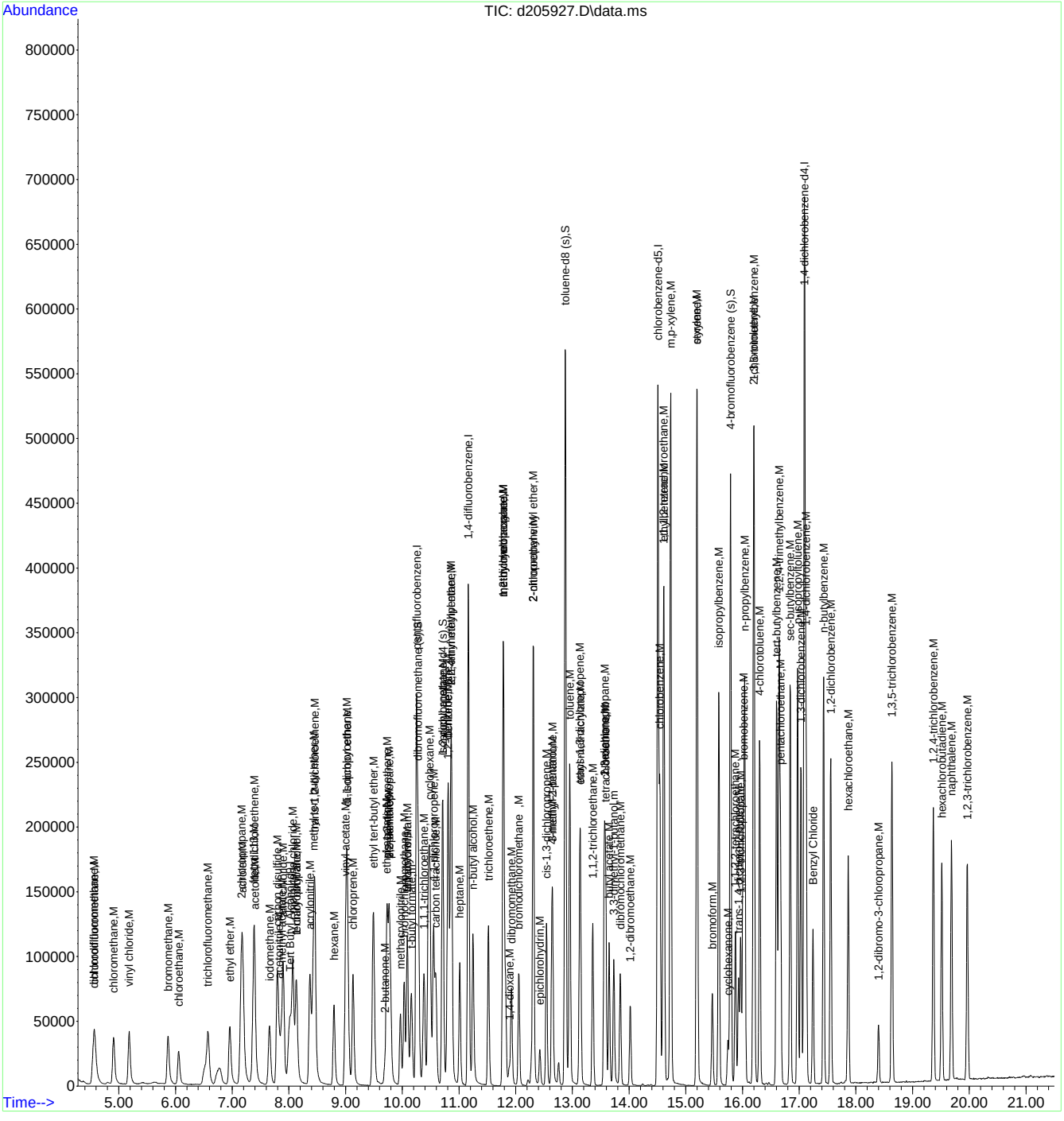
7.7.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205927.D
Acq On : 27 Feb 2013 12:22 pm
Operator : EmilyT
Sample : cc8379-20
Misc : ms43545,vd8401,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 16:14:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Tue Feb 19 09:53:02 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
03/12/13 13:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181797.D
Acq On : 26 Feb 2013 6:20 pm
Operator : SCOTTM
Sample : IC7342-0.5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 11:22:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 27 09:13:14 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	67293	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	264857	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	364667	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	279240	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	150941	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
47) 1,2-dichloroethane-d4...	0.000	65	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 122		Recovery	=	0.00%#	
76) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 81 - 127		Recovery	=	0.00%#	
91) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 66 - 132		Recovery	=	0.00%#	

Target Compounds

						Qvalue
15) freon 113	6.469	151	521	0.40	ug/L #	82
16) 1,1-dichloroethene	6.506	61	1242	0.46	ug/L	86
18) iodomethane	6.783	142	1659	0.46	ug/L #	89
19) carbon disulfide	6.903	76	3000	0.45	ug/L	87
21) allyl chloride	7.050	76	504	0.47	ug/L #	52
22) acetonitrile	7.044	41	2112	5.04	ug/L #	84
24) methyl tert butyl ether	7.588	73	2464	0.49	ug/L	82
25) acrylonitrile	7.583	53	1038	2.38	ug/L #	80
27) hexane	7.933	57	5382	1.12	ug/L	97
28) di-isopropyl ether	8.200	45	2647m	0.44	ug/L	
30) 1,1-dichloroethane	8.195	63	1619	0.48	ug/L	95
31) chloroprene	8.310	53	1185	0.47	ug/L	89
32) ethyl tert-butyl ether	8.655	59	2831	0.49	ug/L	98
35) 2,2-dichloropropane	8.932	77	1629	0.53	ug/L	87
39) bromochloromethane	9.251	128	439	0.45	ug/L	91
41) chloroform	9.309	83	1843	0.51	ug/L	94
42) tert-Butyl Formate	9.346	59	766	0.51	ug/L #	74
44) 1,1,1-trichloroethane	9.571	97	1498	0.48	ug/L	87
45) cyclohexane	9.639	84	1385	0.49	ug/L	80
48) 1,1-dichloropropene	9.748	75	1344	0.50	ug/L	85
51) benzene	10.015	78	4069	0.50	ug/L	97
54) 1,2-dichloroethane	10.026	62	1050	0.48	ug/L	85
57) trichloroethene	10.737	95	1036	0.49	ug/L	91
60) 1,2-dichloropropane	10.993	63	960	0.50	ug/L	95
61) methylcyclohexane	10.957	83	1492	0.49	ug/L	82
62) dibromomethane	11.161	93	448	0.43	ug/L	99
63) bromodichloromethane	11.291	83	1184	0.47	ug/L	87
65) 2-chloroethyl vinyl ether	11.537	63	1111	2.45	ug/L	89
67) cis-1,3-dichloropropene	11.752	75	1577	0.51	ug/L	83
70) toluene	12.112	91	4392	0.51	ug/L	94
71) trans-1,3-dichloropropene	12.322	75	1422	0.53	ug/L	90
73) 1,1,2-trichloroethane	12.531	83	613	0.49	ug/L	91
77) tetrachloroethene	12.698	166	1180	0.51	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181797.D
Acq On : 26 Feb 2013 6:20 pm
Operator : SCOTTM
Sample : IC7342-0.5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 11:22:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 27 09:13:14 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) 1,3-dichloropropane	12.709	76	1209	0.54 ug/L	80
81) dibromochloromethane	12.970	129	835	0.46 ug/L	90
82) 1,2-dibromoethane	13.122	107	726	0.49 ug/L #	95
83) chlorobenzene	13.582	112	2786	0.52 ug/L	94
84) 1,1,1,2-tetrachloroethane	13.650	131	935	0.49 ug/L	88
85) ethylbenzene	13.645	91	4953	0.54 ug/L	94
86) m,p-xylene	13.755	106	3694	1.04 ug/L	85
87) o-xylene	14.173	106	1737	0.51 ug/L	87
88) styrene	14.184	104	3020	0.52 ug/L	85
89) bromoform	14.440	173	523	0.44 ug/L	82
92) isopropylbenzene	14.513	105	4475	0.52 ug/L	94
94) 1,1,2,2-tetrachloroethane	14.822	83	1013	0.56 ug/L	85
95) trans-1,4-dichloro-2-b...	14.874	53	237	0.56 ug/L #	32
96) 1,2,3-trichloropropane	14.890	110	196	0.52 ug/L #	85
97) n-propylbenzene	14.926	91	5841	0.56 ug/L	92
98) bromobenzene	14.916	156	1233	0.52 ug/L #	86
99) 2-chlorotoluene	15.078	126	1266	0.57 ug/L	88
100) 4-chlorotoluene	15.177	91	3546	0.56 ug/L	92
101) 1,3,5-trimethylbenzene	15.083	105	4298	0.56 ug/L	88
102) tert-butylbenzene	15.439	119	3456	0.54 ug/L	99
103) pentachloroethane	15.523	167	669	0.46 ug/L	81
104) 1,2,4-trimethylbenzene	15.491	105	4805	0.59 ug/L	93
105) sec-butylbenzene	15.664	105	5296	0.54 ug/L	95
106) p-isopropyltoluene	15.794	119	5417	0.61 ug/l	92
107) benzyl chloride	16.066	91	2074	0.59 ug/L	94
108) 1,3-dichlorobenzene	15.863	146	2796	0.58 ug/L	97
109) 1,4-dichlorobenzene	15.946	146	2945	0.59 ug/L	95
110) 1,2-dichlorobenzene	16.359	146	2575	0.57 ug/L	96
111) n-butylbenzene	16.229	92	2862	1.41 ug/L	93
112) hexachloroethane	16.631	119	715	0.45 ug/L	92
114) 1,3,5-Trichlorobenzene	17.379	180	3077	0.68 ug/L	92
115) 1,2,4-trichlorobenzene	18.038	180	2447	0.66 ug/L	94
116) hexachlorobutadiene	18.169	225	1681	0.67 ug/L	88
118) 1,2,3-trichlorobenzene	18.582	180	1969	0.64 ug/L	96

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

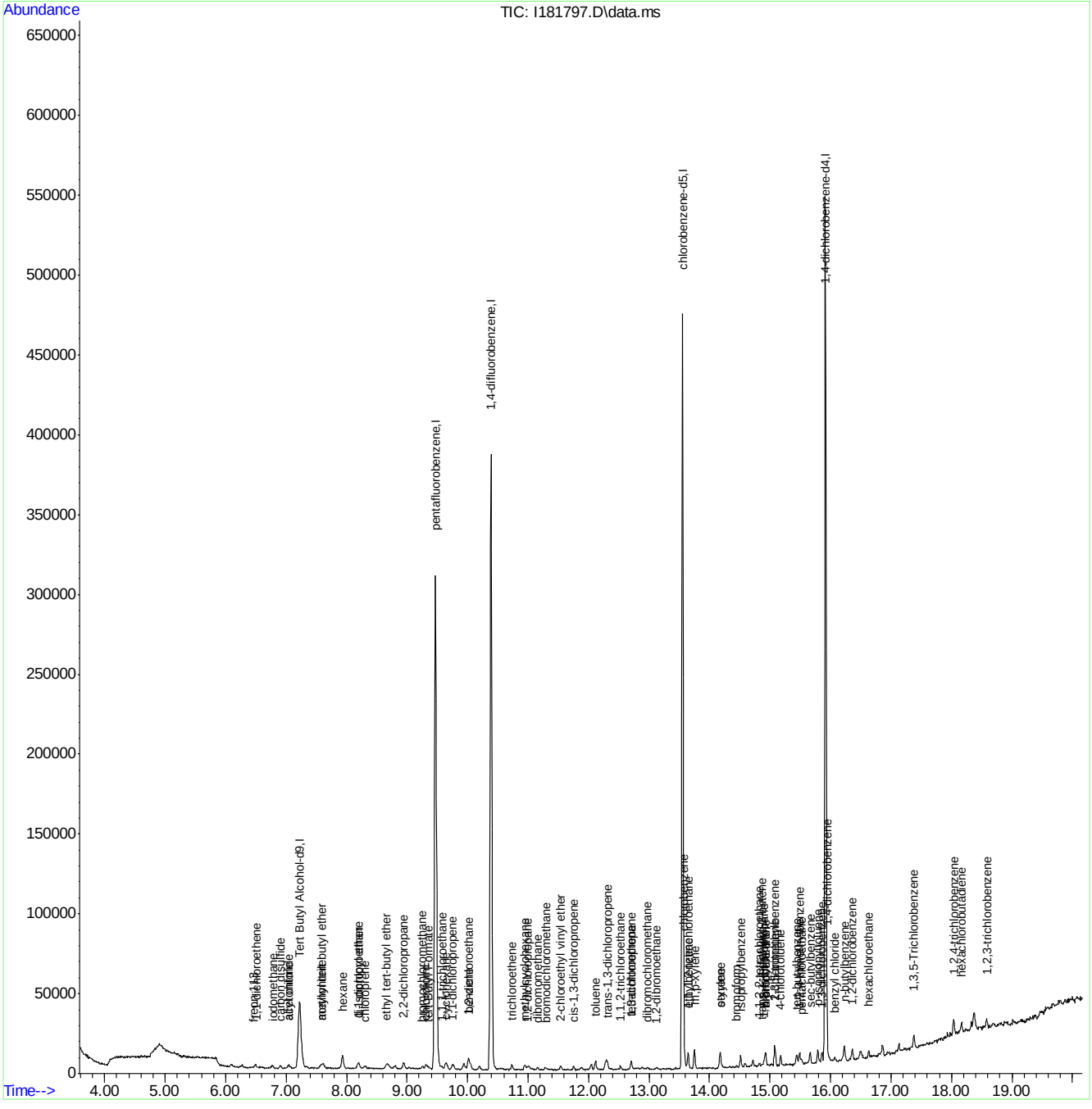
7.7.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181797.D
Acq On : 26 Feb 2013 6:20 pm
Operator : SCOTTM
Sample : IC7342-0.5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 11:22:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 27 09:13:14 2013
Response via : Initial Calibration



Manual Integration Approval Summary

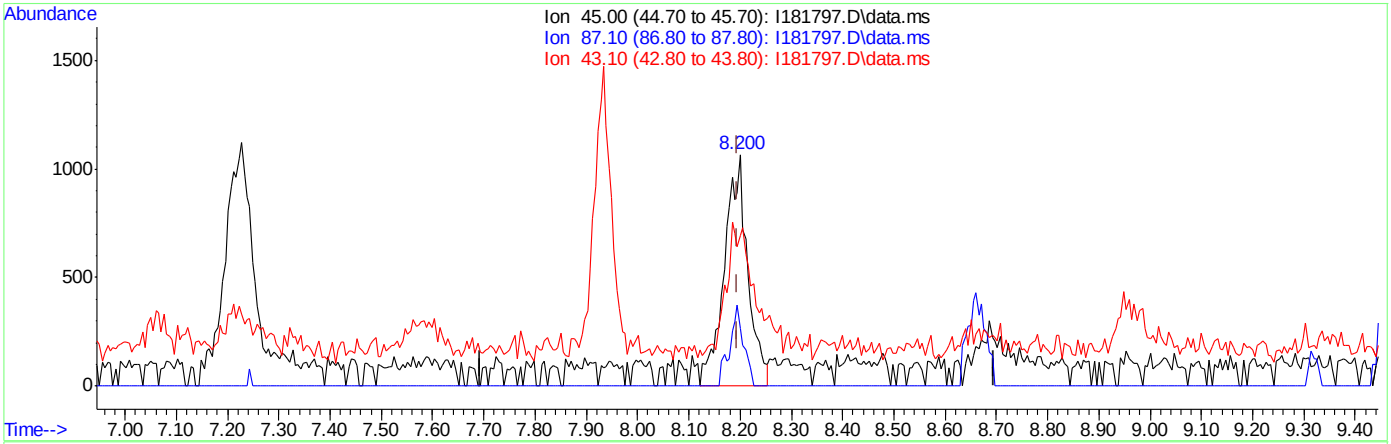
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181797.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 18:20	**Supervisor approved:**	03/12/13 13:06 Kanya Veerawat

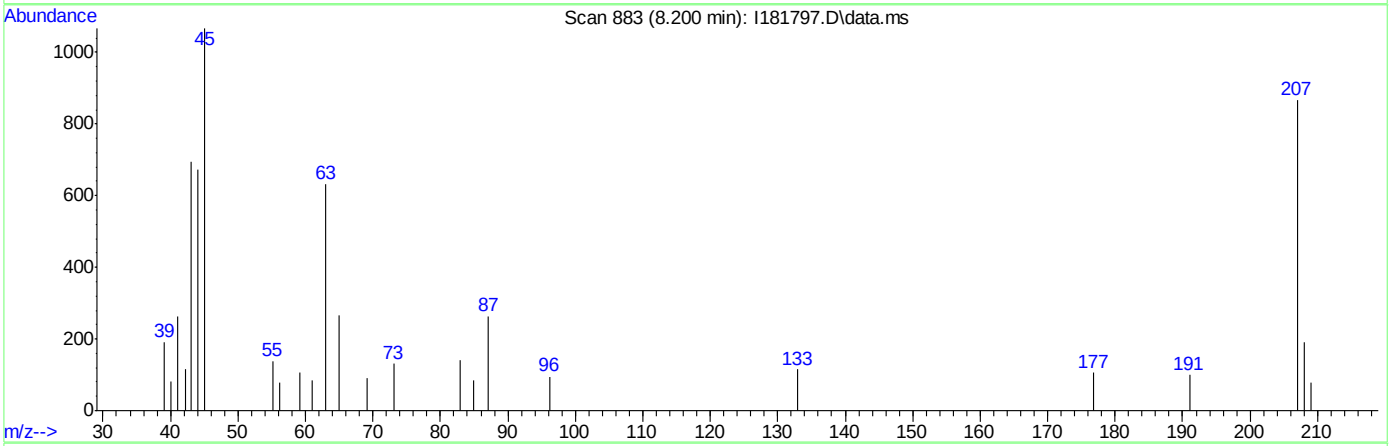
Parameter	CAS	Sig#	R.T. (min.)	Reason
Di-Isopropyl ether	108-20-3		8.20	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181797.D
Acq On : 26 Feb 2013 6:20 pm
Operator : SCOTTM
Sample : IC7342-0.5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 26 18:43:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181797.D\data.ms

(28) di-isopropyl ether

8.200min (+0.005) 0.30ug/L

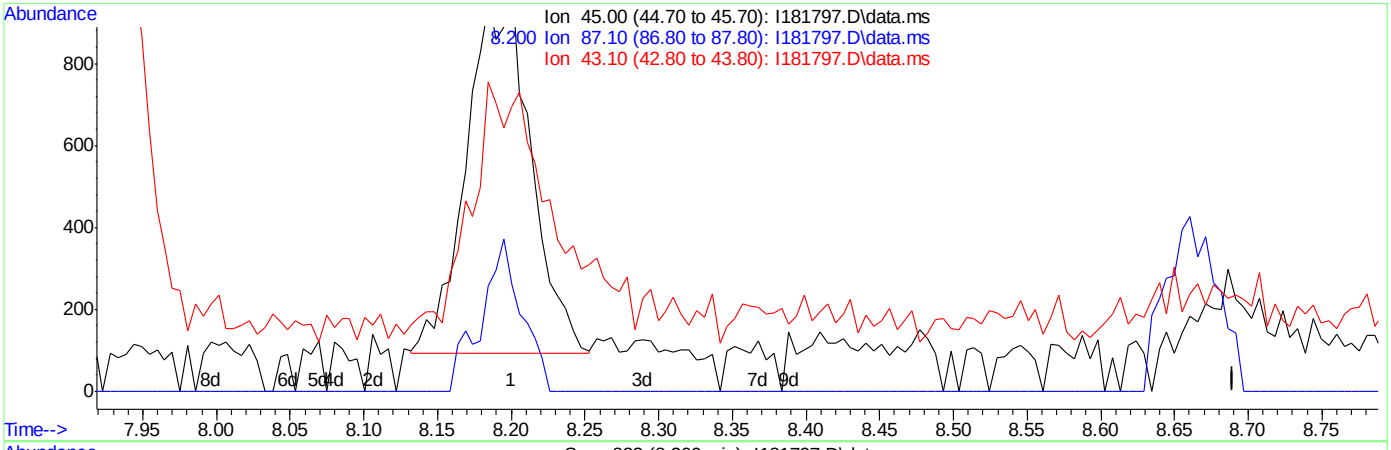
response 3388

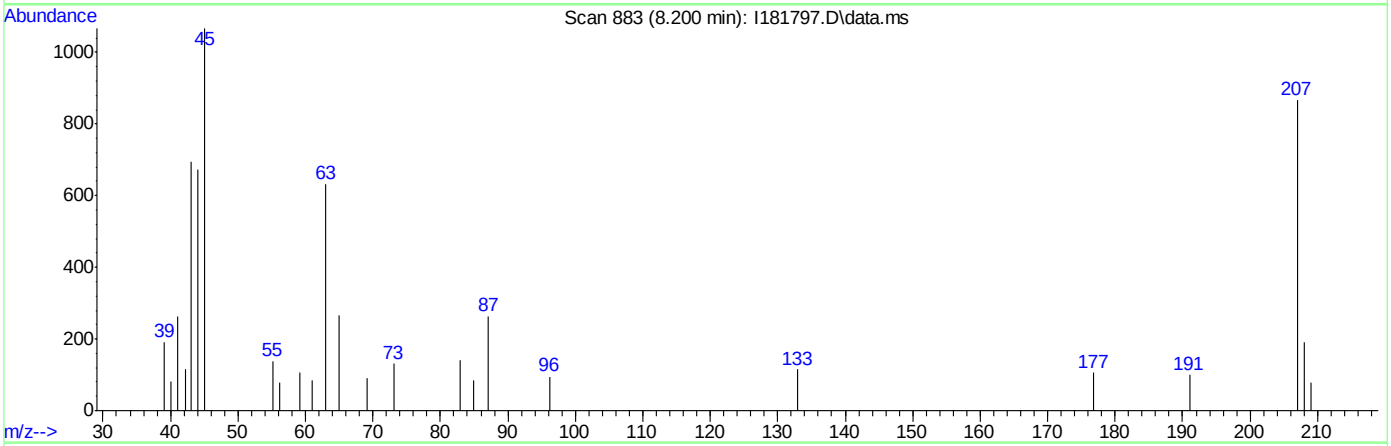
Ion	Exp%	Act%
45.00	100	100
87.10	20.80	24.65
43.10	95.20	49.77#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181797.D
Acq On : 26 Feb 2013 6:20 pm
Operator : SCOTTM
Sample : IC7342-0.5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 09:27:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 27 09:13:14 2013
Response via : Initial Calibration





TIC: I181797.D\data.ms

(28) di-isopropyl ether

8.200min (+0.011) 0.44ug/L m

response 2647

Ion	Exp%	Act%
45.00	100	100
87.10	28.00	24.65
43.10	102.40	65.23#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181798.D
Acq On : 26 Feb 2013 6:49 pm
Operator : SCOTTM
Sample : IC7342-1
Misc : MS43614,VI7342,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 12:30:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	68873	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	253892	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	347481	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	272934	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	151107	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.508	113	2841	1.53	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 3.06%#			
47) 1,2-dichloroethane-d4...	9.937	65	2481	1.43	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 2.86%#			
76) toluene-d8 (s)	12.044	98	2133	0.34	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 0.68%#			
91) 4-bromofluorobenzene (s)	14.717	95	1145	0.52	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 1.04%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.353	59	854	5.45	ug/L #	23
6) chlorodifluoromethane	3.786	51	2255	1.08	ug/L	79
7) dichlorodifluoromethane	3.760	85	2839	0.95	ug/L	96
8) chloromethane	4.115	50	3505	1.26	ug/L	92
9) vinyl chloride	4.372	62	2910	1.03	ug/L	92
10) bromomethane	5.010	94	2341	1.29	ug/L	78
11) chloroethane	5.193	64	1519	1.19	ug/L	72
12) trichlorofluoromethane	5.643	101	2943	0.90	ug/L	67
13) ethyl ether	6.087	74	1381	1.58	ug/L #	79
14) acrolein	6.333	56	2557	10.50	ug/L	93
15) freon 113	6.474	151	1004	0.79	ug/L #	83
16) 1,1-dichloroethene	6.500	61	2252	0.89	ug/L	96
18) iodomethane	6.778	142	3049	0.89	ug/L #	64
19) carbon disulfide	6.893	76	5567	0.89	ug/L	87
21) allyl chloride	7.050	76	950	0.93	ug/L #	55
22) acetonitrile	7.039	41	3936	9.95	ug/L #	84
23) methylene chloride	7.238	84	8244	Below Cal		96
24) methyl tert butyl ether	7.578	73	5652	1.16	ug/L	89
25) acrylonitrile	7.583	53	1871	4.58	ug/L	92
26) trans-1,2-dichloroethene	7.625	96	2694	1.29	ug/L	75
27) hexane	7.933	57	8778	1.85	ug/L	98
28) di-isopropyl ether	8.190	45	5793	1.07	ug/L #	63
29) vinyl acetate	8.190	65	993	0.95	ug/L #	71
30) 1,1-dichloroethane	8.190	63	2972	0.94	ug/L #	88
31) chloroprene	8.300	53	2172	0.92	ug/L #	77
32) ethyl tert-butyl ether	8.661	59	5312	0.96	ug/L	94
35) 2,2-dichloropropane	8.938	77	3023	1.05	ug/L	99
36) cis-1,2-dichloroethene	8.938	96	1978	0.91	ug/L	89
38) propionitrile	9.021	54	1416	9.08	ug/L #	61
39) bromochloromethane	9.252	128	932	0.98	ug/L #	85
40) tetrahydrofuran	9.299	42	1211	2.72	ug/L #	35
41) chloroform	9.309	83	3476	1.01	ug/L	100
42) tert-Butyl Formate	9.351	59	1367	0.97	ug/L #	67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181798.D
Acq On : 26 Feb 2013 6:49 pm
Operator : SCOTTM
Sample : IC7342-1
Misc : MS43614,VI7342,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 12:30:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,1,1-trichloroethane	9.565	97	2897	0.98	ug/L		93
45) cyclohexane	9.633	84	2294	0.88	ug/L		86
48) 1,1-dichloropropene	9.743	75	2247	0.91	ug/L		99
51) benzene	10.005	78	7481	0.98	ug/L		93
52) 2,2,4-trimethylpentane	10.010	57	5527	0.91	ug/L		94
53) tert-amyl methyl ether	10.052	73	5291	1.00	ug/L		86
54) 1,2-dichloroethane	10.026	62	2047	0.98	ug/L		88
55) heptane	10.198	57	1279	1.02	ug/L	#	88
56) n-butyl alcohol	10.538	56	1579	47.74	ug/L	#	56
57) trichloroethene	10.732	95	1727	0.89	ug/L		94
59) methyl methacrylate	11.019	69	960	1.07	ug/L	#	55
60) 1,2-dichloropropane	10.993	63	1610	0.91	ug/L		88
61) methylcyclohexane	10.957	83	2529	0.88	ug/L		95
62) dibromomethane	11.155	93	1002	1.00	ug/L		77
63) bromodichloromethane	11.291	83	2361	0.99	ug/L		96
65) 2-chloroethyl vinyl ether	11.537	63	1969	4.62	ug/L	#	72
67) cis-1,3-dichloropropene	11.752	75	2747	0.97	ug/L		92
70) toluene	12.112	91	7349	0.92	ug/L		99
71) trans-1,3-dichloropropene	12.316	75	2593	1.06	ug/L		91
72) ethyl methacrylate	12.311	69	1655	0.97	ug/L		93
73) 1,1,2-trichloroethane	12.531	83	1201	1.02	ug/L		81
77) tetrachloroethene	12.703	166	1784	0.84	ug/L		94
78) 1,3-dichloropropane	12.709	76	2004	0.97	ug/L		95
79) butyl acetate	12.792	56	811	1.12	ug/L	#	58
80) 3,3-Dimethyl-1-Butanol	12.881	57	1190	10.68	ug/L	#	64
81) dibromochloromethane	12.975	129	1680	0.95	ug/L	#	86
82) 1,2-dibromoethane	13.122	107	1335	0.94	ug/L	#	97
83) chlorobenzene	13.587	112	4512	0.90	ug/L		96
84) 1,1,1,2-tetrachloroethane	13.650	131	1748	0.95	ug/L		90
85) ethylbenzene	13.640	91	8130	0.95	ug/L		97
86) m,p-xylene	13.750	106	5904	1.80	ug/L		97
87) o-xylene	14.173	106	2863	0.89	ug/L		94
88) styrene	14.184	104	5003	0.92	ug/L		96
89) bromoform	14.445	173	1031	0.91	ug/L		89
92) isopropylbenzene	14.513	105	7710	0.94	ug/L		96
93) cyclohexanone	14.681	55	733	23.39	ug/L	#	63
94) 1,1,2,2-tetrachloroethane	14.827	83	1787	1.03	ug/L		91
97) n-propylbenzene	14.932	91	8201	0.85	ug/L		93
98) bromobenzene	14.911	156	2345	1.02	ug/L		91
99) 2-chlorotoluene	15.078	126	1969	0.94	ug/L		92
100) 4-chlorotoluene	15.177	91	5674	0.94	ug/L		96
101) 1,3,5-trimethylbenzene	15.083	105	6847	0.94	ug/L		97
102) tert-butylbenzene	15.439	119	5743	0.94	ug/L		95
103) pentachloroethane	15.523	167	1284	0.89	ug/L		95
104) 1,2,4-trimethylbenzene	15.486	105	7378	0.98	ug/L		99
105) sec-butylbenzene	15.664	105	8381	0.89	ug/L		98
106) p-isopropyltoluene	15.789	119	7210	0.92	ug/l		96
107) benzyl chloride	16.067	91	3353	1.00	ug/L	#	77
108) 1,3-dichlorobenzene	15.857	146	4398	0.97	ug/L		99
109) 1,4-dichlorobenzene	15.946	146	4588	0.99	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181798.D
Acq On : 26 Feb 2013 6:49 pm
Operator : SCOTTM
Sample : IC7342-1
Misc : MS43614,VI7342,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 12:30:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
110) 1,2-dichlorobenzene	16.354	146	4049	0.95 ug/L	95
111) n-butylbenzene	16.229	92	3613	0.90 ug/L	92
112) hexachloroethane	16.631	119	2480	1.60 ug/L #	54
114) 1,3,5-Trichlorobenzene	17.379	180	3990	1.09 ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	3073	1.01 ug/L	97
116) hexachlorobutadiene	18.169	225	2044	0.98 ug/L	98
117) naphthalene	18.326	128	5866	1.09 ug/L	91
118) 1,2,3-trichlorobenzene	18.582	180	2919	1.10 ug/L	95

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

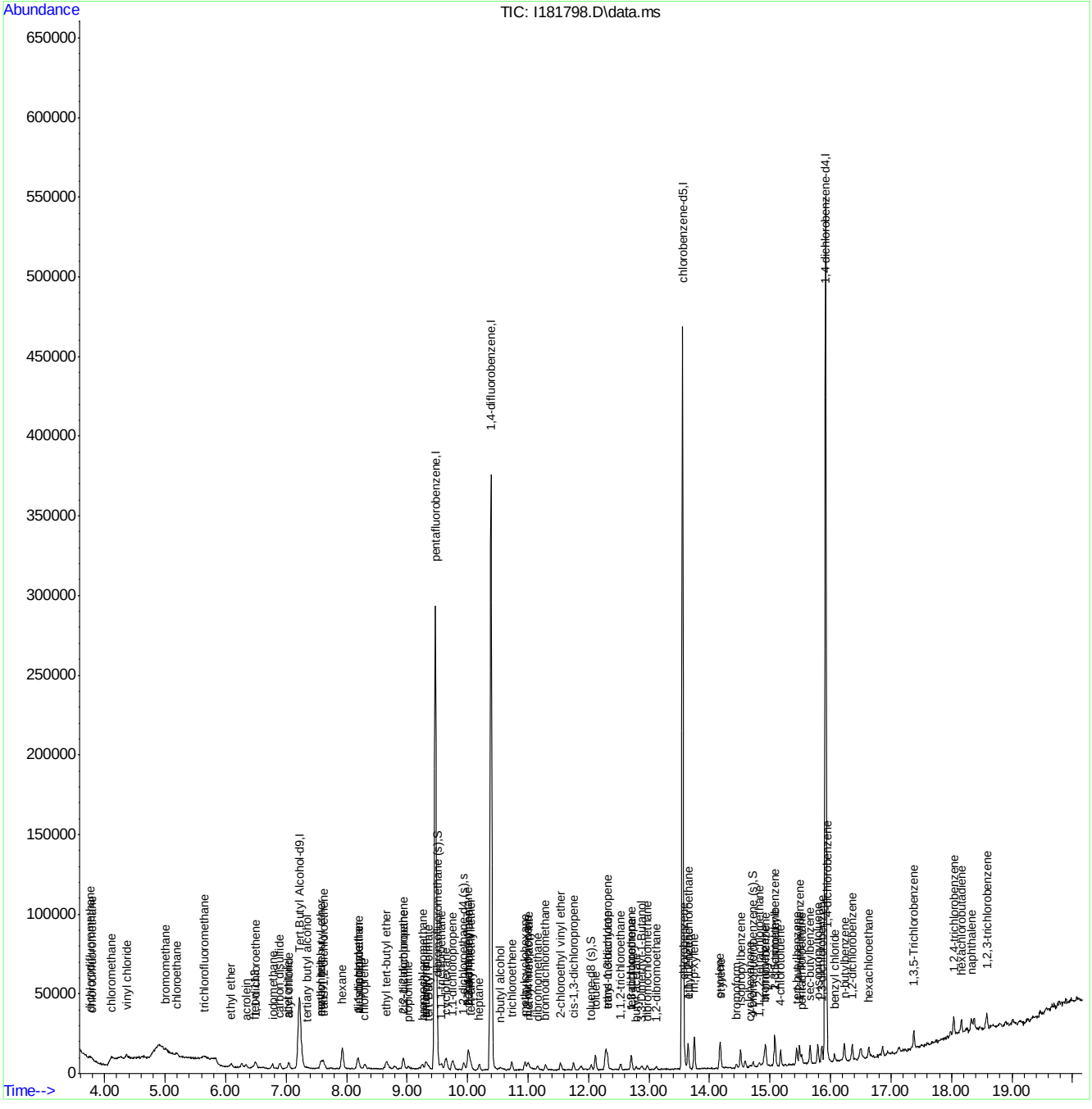
7.7.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181798.D
Acq On : 26 Feb 2013 6:49 pm
Operator : SCOTTM
Sample : IC7342-1
Misc : MS43614,VI7342,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 12:30:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181799.D
Acq On : 26 Feb 2013 7:18 pm
Operator : SCOTTM
Sample : IC7342-2
Misc : MS43614,VI7342,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 28 12:30:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	67453	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	252093	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	345315	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	269287	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	152591	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.513	113	2971	1.61	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 3.22%#			
47) 1,2-dichloroethane-d4...	9.931	65	2412	1.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 2.80%#			
76) toluene-d8 (s)	12.044	98	2463	0.39	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 0.78%#			
91) 4-bromofluorobenzene (s)	14.717	95	1274	0.58	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 1.16%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.337	59	1708	11.13	ug/L #	36
3) iso-butyl alcohol	10.015	74	1266	29.76	ug/L #	44
6) chlorodifluoromethane	3.791	51	4253	2.06	ug/L	96
7) dichlorodifluoromethane	3.770	85	5542	1.86	ug/L	85
8) chloromethane	4.121	50	6014	2.17	ug/L	94
9) vinyl chloride	4.377	62	5347	1.91	ug/L	95
10) bromomethane	5.020	94	3310	1.83	ug/L	97
11) chloroethane	5.193	64	2716	2.14	ug/L	90
12) trichlorofluoromethane	5.643	101	6165	1.91	ug/L	99
13) ethyl ether	6.098	74	2147	2.48	ug/L	88
14) acrolein	6.338	56	5333	22.06	ug/L	96
15) freon 113	6.474	151	2451	1.95	ug/L #	92
16) 1,1-dichloroethene	6.500	61	4838	1.93	ug/L	98
18) iodomethane	6.772	142	6784	2.00	ug/L #	97
19) carbon disulfide	6.898	76	12310	1.98	ug/L	90
21) allyl chloride	7.039	76	2049	2.02	ug/L	95
22) acetonitrile	7.039	41	7880	20.06	ug/L #	93
23) methylene chloride	7.233	84	10211	Below Cal		98
24) methyl tert butyl ether	7.578	73	10488	2.17	ug/L	99
25) acrylonitrile	7.583	53	4290	10.57	ug/L	96
26) trans-1,2-dichloroethene	7.620	96	3905	1.88	ug/L	92
27) hexane	7.923	57	7955	1.38	ug/L	98
28) di-isopropyl ether	8.190	45	11386	2.12	ug/L #	74
29) vinyl acetate	8.190	65	2081	2.01	ug/L #	84
30) 1,1-dichloroethane	8.190	63	6132	1.94	ug/L	97
31) chloroprene	8.305	53	4321	1.84	ug/L	96
32) ethyl tert-butyl ether	8.655	59	11405	2.07	ug/L	97
35) 2,2-dichloropropane	8.948	77	5512	1.92	ug/L	95
36) cis-1,2-dichloroethene	8.938	96	4065	1.88	ug/L	85
37) methacrylonitrile	9.210	67	993	1.89	ug/L #	89
38) propionitrile	9.021	54	2994	19.34	ug/L	92
39) bromochloromethane	9.257	128	1951	2.07	ug/L	87
40) tetrahydrofuran	9.293	42	1788	4.04	ug/L #	35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181799.D
Acq On : 26 Feb 2013 7:18 pm
Operator : SCOTTM
Sample : IC7342-2
Misc : MS43614,VI7342,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 28 12:30:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	9.314	83	7057	2.07	ug/L		97
42) tert-Butyl Formate	9.346	59	2876	2.05	ug/L	#	86
44) 1,1,1-trichloroethane	9.565	97	5729	1.95	ug/L		95
45) cyclohexane	9.644	84	4983	1.92	ug/L		88
48) 1,1-dichloropropene	9.754	75	4760	1.94	ug/L		99
49) carbon tetrachloride	9.769	117	4618	0.24	ug/L		92
50) isopropyl acetate	9.947	61	1099	2.09	ug/L	#	31
51) benzene	10.010	78	14803	1.95	ug/L		95
52) 2,2,4-trimethylpentane	10.010	57	11389	1.90	ug/L		94
53) tert-amyl methyl ether	10.052	73	10823	2.06	ug/L		90
54) 1,2-dichloroethane	10.031	62	4174	2.01	ug/L		93
55) heptane	10.188	57	2471	1.99	ug/L		94
56) n-butyl alcohol	10.538	56	3074	93.53	ug/L	#	89
57) trichloroethene	10.737	95	3667	1.90	ug/L		92
59) methyl methacrylate	11.014	69	1942	2.17	ug/L	#	67
60) 1,2-dichloropropane	10.998	63	3589	2.03	ug/L		89
61) methylcyclohexane	10.957	83	5583	1.96	ug/L		88
62) dibromomethane	11.160	93	2021	2.02	ug/L		94
63) bromodichloromethane	11.286	83	4717	1.99	ug/L		98
64) 2-nitropropane	11.506	41	1696	4.07	ug/L	#	1
65) 2-chloroethyl vinyl ether	11.537	63	4341	10.26	ug/L		97
66) epichlorohydrin	11.657	57	1311	12.23	ug/L	#	56
67) cis-1,3-dichloropropene	11.751	75	5605	1.99	ug/L		97
68) 4-methyl-2-pentanone	11.856	58	865	1.93	ug/L	#	88
69) 3-methyl-1-butanol	11.887	70	1225	45.43	ug/L	#	85
70) toluene	12.112	91	15549	1.96	ug/L		97
71) trans-1,3-dichloropropene	12.316	75	4756	1.95	ug/L		98
72) ethyl methacrylate	12.316	69	3478	2.04	ug/L		97
73) 1,1,2-trichloroethane	12.526	83	2485	2.12	ug/L		94
74) 2-hexanone	12.714	58	739	1.95	ug/L		91
77) tetrachloroethene	12.703	166	3987	1.90	ug/L		94
78) 1,3-dichloropropane	12.709	76	4098	2.01	ug/L		97
79) butyl acetate	12.782	56	1558	2.18	ug/L	#	82
80) 3,3-Dimethyl-1-Butanol	12.876	57	2432	22.13	ug/L	#	94
81) dibromochloromethane	12.981	129	3540	2.04	ug/L		99
82) 1,2-dibromoethane	13.127	107	2810	2.01	ug/L	#	99
83) chlorobenzene	13.587	112	10051	2.04	ug/L		87
84) 1,1,1,2-tetrachloroethane	13.645	131	3539	1.96	ug/L		99
85) ethylbenzene	13.645	91	16546	1.95	ug/L		96
86) m,p-xylene	13.755	106	12201	3.77	ug/L		91
87) o-xylene	14.168	106	6182	1.95	ug/L		100
88) styrene	14.178	104	10711	1.99	ug/L		99
89) bromoform	14.445	173	2127	1.91	ug/L		93
92) isopropylbenzene	14.513	105	16128	1.94	ug/L		100
93) cyclohexanone	14.675	55	1341	42.37	ug/L		88
94) 1,1,2,2-tetrachloroethane	14.822	83	3441	1.97	ug/L		92
95) trans-1,4-dichloro-2-b...	14.869	53	836	2.07	ug/L		92
96) 1,2,3-trichloropropane	14.895	110	742	2.01	ug/L	#	61
97) n-propylbenzene	14.931	91	18419	1.89	ug/L		96
98) bromobenzene	14.916	156	4614	1.99	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181799.D
Acq On : 26 Feb 2013 7:18 pm
Operator : SCOTTM
Sample : IC7342-2
Misc : MS43614,VI7342,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 28 12:30:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) 2-chlorotoluene	15.078	126	4061	1.91 ug/L	85
100) 4-chlorotoluene	15.177	91	11799	1.94 ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	14590	1.98 ug/L	93
102) tert-butylbenzene	15.439	119	11947	1.94 ug/L	97
103) pentachloroethane	15.522	167	2977	2.05 ug/L	97
104) 1,2,4-trimethylbenzene	15.491	105	14544	1.92 ug/L	98
105) sec-butylbenzene	15.669	105	18267	1.93 ug/L	97
106) p-isopropyltoluene	15.789	119	15961	2.03 ug/l	96
107) benzyl chloride	16.066	91	6798	2.02 ug/L	96
108) 1,3-dichlorobenzene	15.857	146	8948	1.95 ug/L	95
109) 1,4-dichlorobenzene	15.946	146	9082	1.95 ug/L	97
110) 1,2-dichlorobenzene	16.354	146	8491	1.98 ug/L	99
111) n-butylbenzene	16.223	92	7814	1.93 ug/L	97
112) hexachloroethane	16.637	119	3023	1.94 ug/L	91
113) 1,2-dibromo-3-chloropr...	17.180	157	722	1.97 ug/L	92
114) 1,3,5-Trichlorobenzene	17.379	180	7455	2.01 ug/L	98
115) 1,2,4-trichlorobenzene	18.038	180	6205	2.03 ug/L	97
116) hexachlorobutadiene	18.164	225	4469	2.13 ug/L	98
117) naphthalene	18.326	128	11507	2.11 ug/L	97
118) 1,2,3-trichlorobenzene	18.587	180	5389	2.01 ug/L	97

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

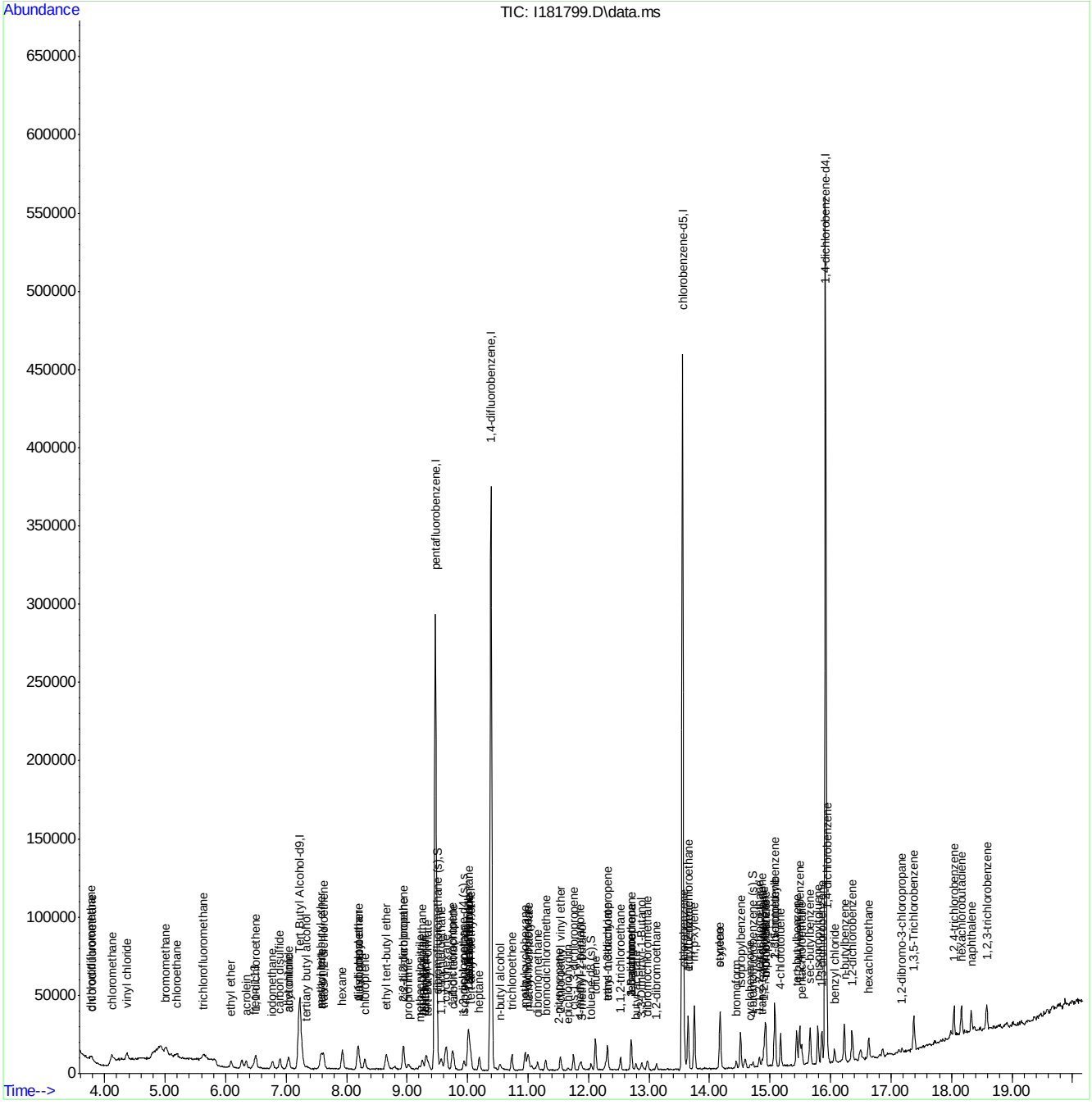
7.7.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181799.D
Acq On : 26 Feb 2013 7:18 pm
Operator : SCOTTM
Sample : IC7342-2
Misc : MS43614,VI7342,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 28 12:30:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/13/13 12:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 15:06:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	72997	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	264082	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	362582	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	284716	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	159317	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	10239	5.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 10.58%#			
47) 1,2-dichloroethane-d4...	9.937	65	9670	5.34	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 10.68%#			
76) toluene-d8 (s)	12.039	98	30528	4.63	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 9.26%#			
91) 4-bromofluorobenzene (s)	14.717	95	11142	4.82	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 9.64%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.342	59	4096	24.66	ug/L	84
3) iso-butyl alcohol	10.010	74	2154m	46.78	ug/L	
4) 1,4-dioxane	11.113	88	1536	115.54	ug/L #	77
6) chlorodifluoromethane	3.796	51	11201	5.18	ug/L	97
7) dichlorodifluoromethane	3.775	85	14128	4.53	ug/L	98
8) chloromethane	4.121	50	14449	4.99	ug/L	97
9) vinyl chloride	4.372	62	14488	4.94	ug/L	97
10) bromomethane	5.020	94	9428	4.98	ug/L	98
11) chloroethane	5.198	64	6449	4.84	ug/L	94
12) trichlorofluoromethane	5.648	101	17092	5.04	ug/L	92
13) ethyl ether	6.098	74	4748	5.24	ug/L	86
14) acrolein	6.338	56	12269	48.45	ug/L	97
15) freon 113	6.479	151	6878	5.23	ug/L	100
16) 1,1-dichloroethene	6.495	61	13076	4.97	ug/L	90
17) acetone	6.579	58	774	6.90	ug/L #	91
18) iodomethane	6.772	142	17257	4.85	ug/L #	98
19) carbon disulfide	6.903	76	32237	4.94	ug/L	95
20) methyl acetate	7.050	74	971	4.72	ug/L #	80
21) allyl chloride	7.050	76	5331	5.01	ug/L #	84
22) acetonitrile	7.039	41	19632	47.71	ug/L	96
23) methylene chloride	7.233	84	18989	3.84	ug/L	98
24) methyl tert butyl ether	7.583	73	23943	4.72	ug/L	96
25) acrylonitrile	7.578	53	10366	24.38	ug/L	99
26) trans-1,2-dichloroethene	7.625	96	10144	4.65	ug/L	92
27) hexane	7.933	57	12689	3.94	ug/L	99
28) di-isopropyl ether	8.195	45	27760	4.93	ug/L	85
29) vinyl acetate	8.195	65	5009	4.61	ug/L #	85
30) 1,1-dichloroethane	8.190	63	16126	4.88	ug/L	98
31) chloroprene	8.305	53	12125	4.93	ug/L	99
32) ethyl tert-butyl ether	8.660	59	28321	4.91	ug/L	98
34) ethyl acetate	8.943	45	685m	3.97	ug/L	
35) 2,2-dichloropropane	8.938	77	14748	4.91	ug/L	99
36) cis-1,2-dichloroethene	8.938	96	10902	4.81	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 15:06:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) methacrylonitrile	9.199	67	2529	4.60	ug/L #	96
38) propionitrile	9.011	54	7804	48.13	ug/L	83
39) bromochloromethane	9.251	128	4672	4.74	ug/L	93
40) tetrahydrofuran	9.293	42	2849	6.15	ug/L	91
41) chloroform	9.314	83	16939	4.74	ug/L	99
42) tert-Butyl Formate	9.351	59	7133	4.84	ug/L #	95
44) 1,1,1-trichloroethane	9.560	97	14856	4.82	ug/L	99
45) cyclohexane	9.639	84	13301	4.90	ug/L	98
48) 1,1-dichloropropene	9.748	75	12551	4.87	ug/L	92
49) carbon tetrachloride	9.769	117	12820	0.62	ug/L	93
50) isopropyl acetate	9.947	61	2678	4.85	ug/L	99
51) benzene	10.010	78	38228	4.80	ug/L	99
52) 2,2,4-trimethylpentane	10.010	57	31975	5.07	ug/L	99
53) tert-amyl methyl ether	10.052	73	26977	4.89	ug/L	97
54) 1,2-dichloroethane	10.026	62	10598	4.87	ug/L	94
55) heptane	10.188	57	6336	4.85	ug/L	99
56) n-butyl alcohol	10.533	56	7837	227.09	ug/L	91
57) trichloroethene	10.732	95	9795	4.83	ug/L	93
59) methyl methacrylate	11.009	69	4419	4.71	ug/L	95
60) 1,2-dichloropropane	10.998	63	8867	4.79	ug/L	93
61) methylcyclohexane	10.951	83	14891	4.98	ug/L	98
62) dibromomethane	11.155	93	5095	4.85	ug/L	95
63) bromodichloromethane	11.291	83	11977	4.80	ug/L	99
64) 2-nitropropane	11.511	41	2137	4.89	ug/L #	1
65) 2-chloroethyl vinyl ether	11.537	63	11197	25.20	ug/L	99
66) epichlorohydrin	11.657	57	2791	24.80	ug/L #	56
67) cis-1,3-dichloropropene	11.752	75	14137	4.77	ug/L	99
68) 4-methyl-2-pentanone	11.851	58	2179	4.62	ug/L #	91
69) 3-methyl-1-butanol	11.872	70	3140	101.91	ug/L	89
70) toluene	12.118	91	40138	4.83	ug/L	100
71) trans-1,3-dichloropropene	12.316	75	12186	4.76	ug/L	98
72) ethyl methacrylate	12.316	69	8520	4.77	ug/L	95
73) 1,1,2-trichloroethane	12.531	83	5799	4.71	ug/L	99
74) 2-hexanone	12.709	58	1832	4.61	ug/L #	75
77) tetrachloroethene	12.703	166	10532	4.76	ug/L	99
78) 1,3-dichloropropane	12.709	76	9878	4.57	ug/L	94
79) butyl acetate	12.782	56	3666	4.85	ug/L	93
80) 3,3-Dimethyl-1-Butanol	12.876	57	5789	49.83	ug/L #	96
81) dibromochloromethane	12.975	129	8680	4.73	ug/L	100
82) 1,2-dibromoethane	13.122	107	7158	4.84	ug/L #	99
83) chlorobenzene	13.587	112	24700	4.73	ug/L	100
84) 1,1,1,2-tetrachloroethane	13.645	131	8962	4.68	ug/L	93
85) ethylbenzene	13.645	91	42270	4.71	ug/L	98
86) m,p-xylene	13.749	106	32582	9.51	ug/L	99
87) o-xylene	14.168	106	16397	4.89	ug/L	98
88) styrene	14.178	104	26955	4.73	ug/L	98
89) bromoform	14.440	173	5441	4.61	ug/L	95
92) isopropylbenzene	14.513	105	41591	4.78	ug/L	99
93) cyclohexanone	14.686	55	1884	57.02	ug/L	86
94) 1,1,2,2-tetrachloroethane	14.827	83	8653	4.75	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 15:06:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

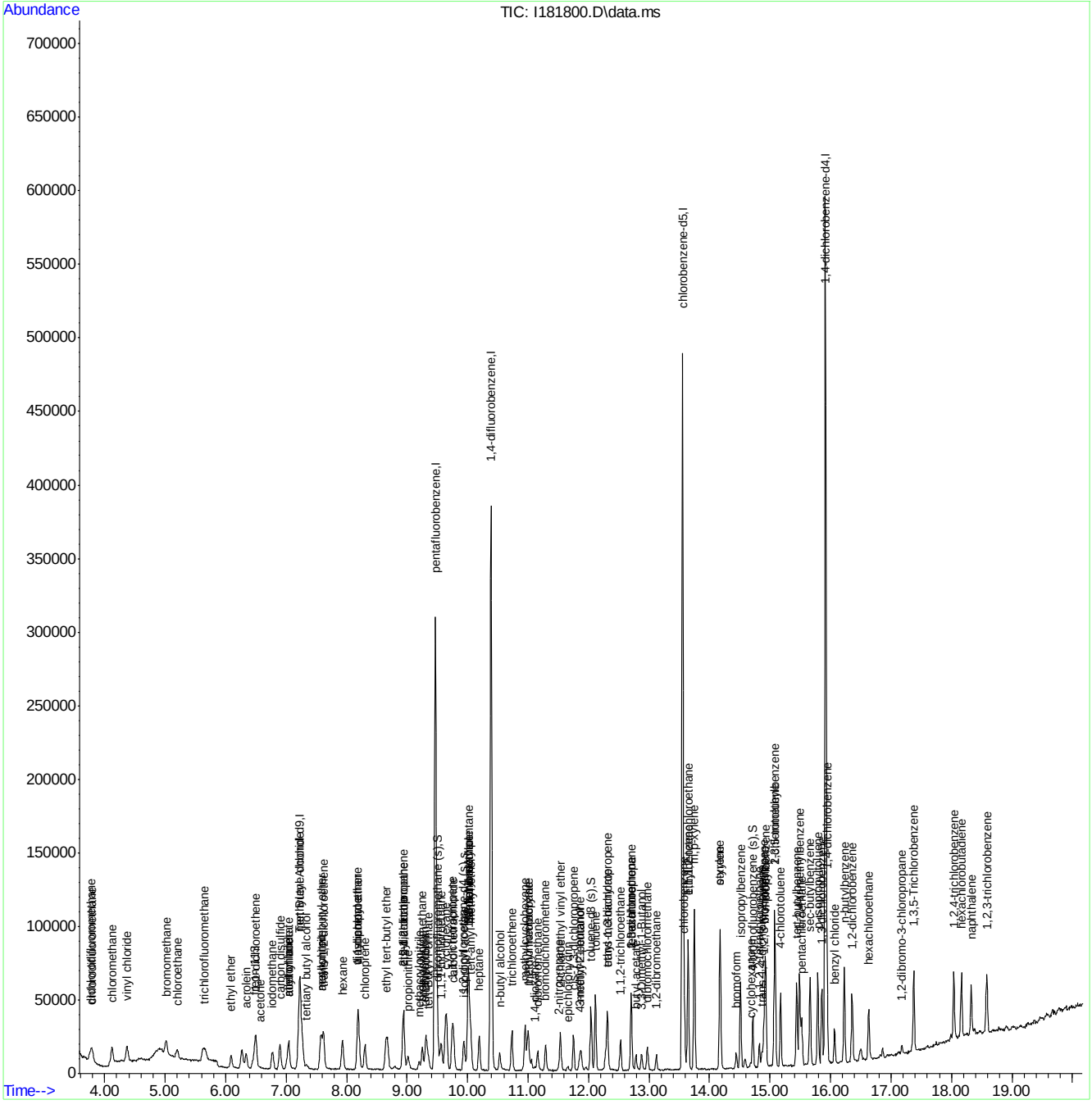
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) trans-1,4-dichloro-2-b...	14.864	53	2050	4.85 ug/L	95
96) 1,2,3-trichloropropane	14.900	110	1788	4.64 ug/L	84
97) n-propylbenzene	14.926	91	48947	4.80 ug/L	99
98) bromobenzene	14.911	156	11400	4.71 ug/L	97
99) 2-chlorotoluene	15.073	126	10533	4.75 ug/L	99
100) 4-chlorotoluene	15.177	91	29895	4.70 ug/L	98
101) 1,3,5-trimethylbenzene	15.083	105	36654	4.76 ug/L	99
102) tert-butylbenzene	15.439	119	29951	4.65 ug/L	100
103) pentachloroethane	15.523	167	7213	4.76 ug/L	97
104) 1,2,4-trimethylbenzene	15.491	105	36475	4.60 ug/L	97
105) sec-butylbenzene	15.664	105	47533	4.81 ug/L	99
106) p-isopropyltoluene	15.789	119	38892	4.73 ug/l	98
107) benzyl chloride	16.066	91	17496	4.97 ug/L	99
108) 1,3-dichlorobenzene	15.857	146	22274	4.65 ug/L	97
109) 1,4-dichlorobenzene	15.946	146	22654	4.66 ug/L	99
110) 1,2-dichlorobenzene	16.359	146	21085	4.71 ug/L	97
111) n-butylbenzene	16.223	92	20654	4.89 ug/L	99
112) hexachloroethane	16.631	119	7560	4.64 ug/L	98
113) 1,2-dibromo-3-chloropr...	17.181	157	1932	5.06 ug/L	93
114) 1,3,5-Trichlorobenzene	17.379	180	18913	4.89 ug/L	98
115) 1,2,4-trichlorobenzene	18.038	180	15485	4.84 ug/L	96
116) hexachlorobutadiene	18.164	225	10672	4.86 ug/L	92
117) naphthalene	18.326	128	27070	4.76 ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	13519	4.84 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 15:06:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

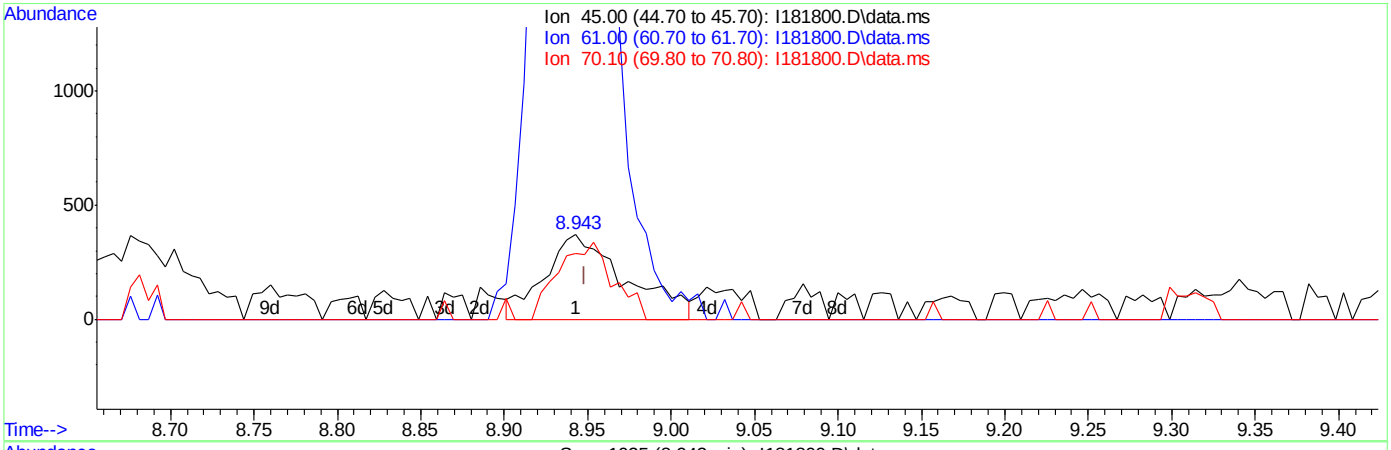
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181800.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 19:46	**Supervisor approved:**	03/13/13 12:26 Kanya Veerawat

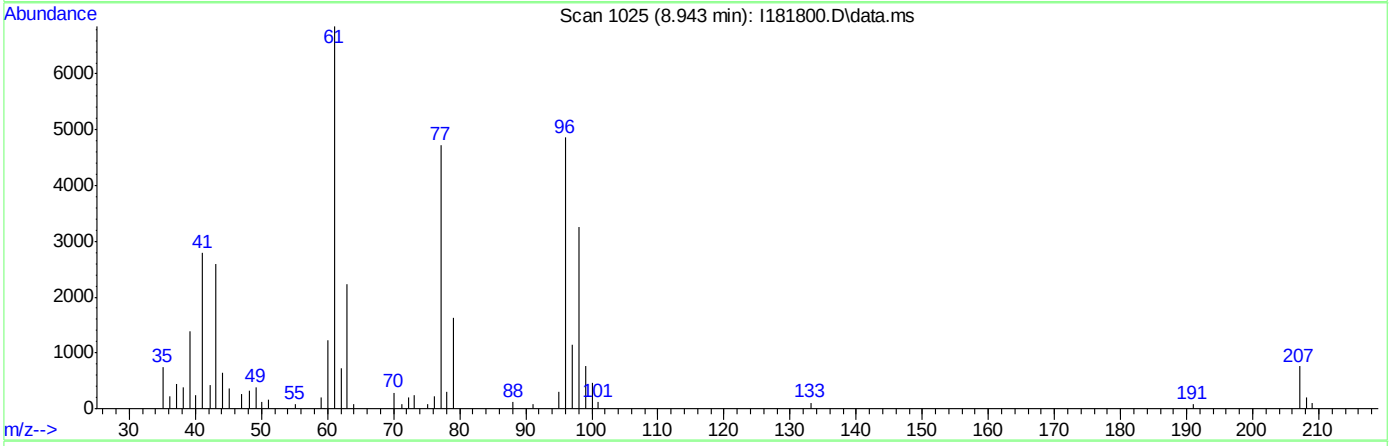
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acetate	141-78-6		8.94	Poorly defined baseline
Isobutyl alcohol	78-83-1		10.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 08:48:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





(34) ethyl acetate

8.943min (-0.005) 3.50ug/L

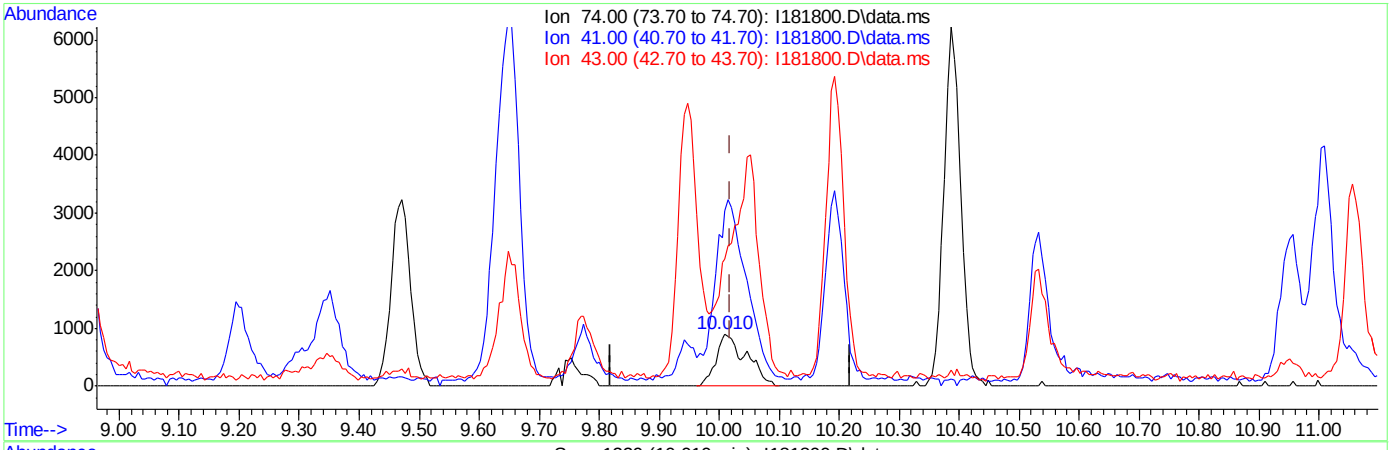
response 1261

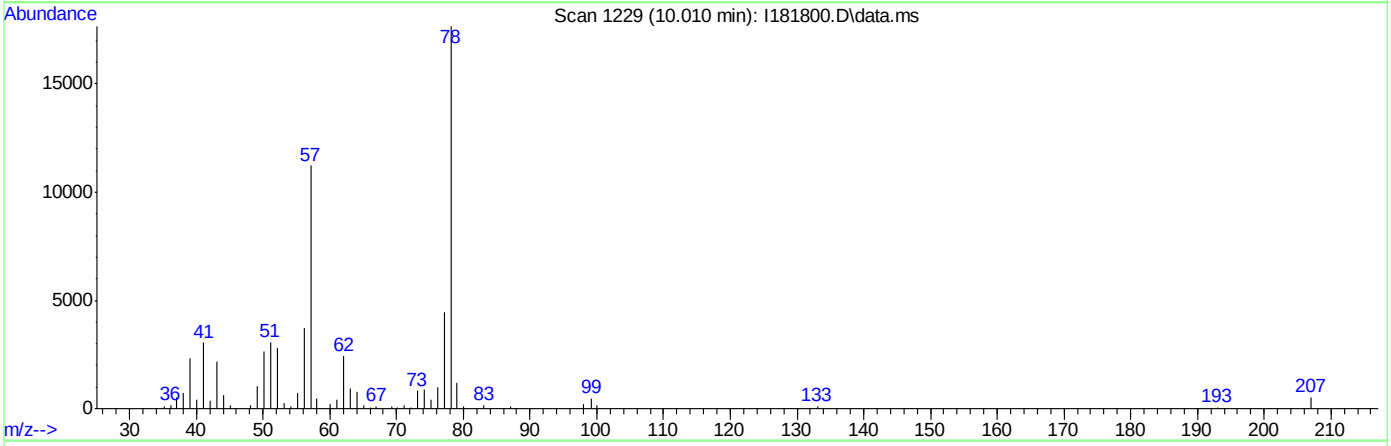
Ion	Exp%	Act%
45.00	100	100
61.00	1108.00	2294.58#
70.10	77.30	97.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 20:10:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181800.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.010) 52.14ug/L

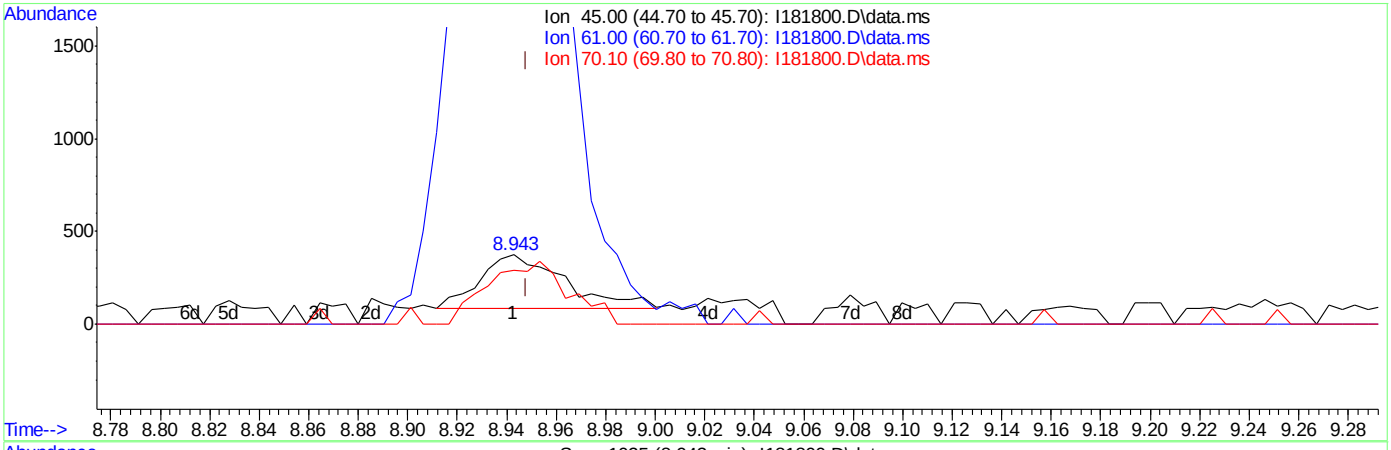
response 3156

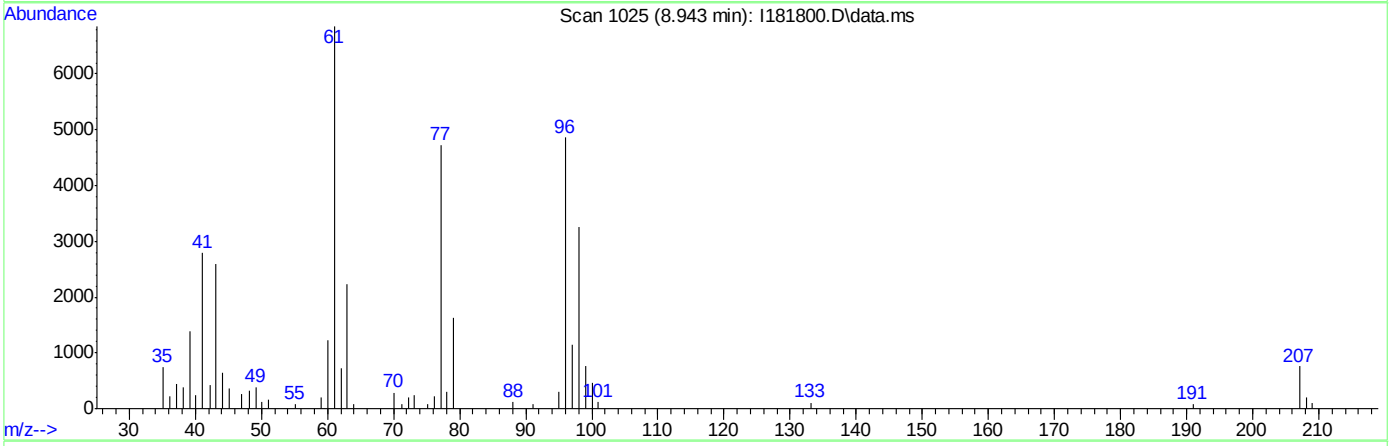
Ion	Exp%	Act%
74.00	100	100
41.00	502.70	347.08#
43.00	577.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 09:29:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181800.D\data.ms

(34) ethyl acetate

8.943min (-0.005) 1.90ug/L m

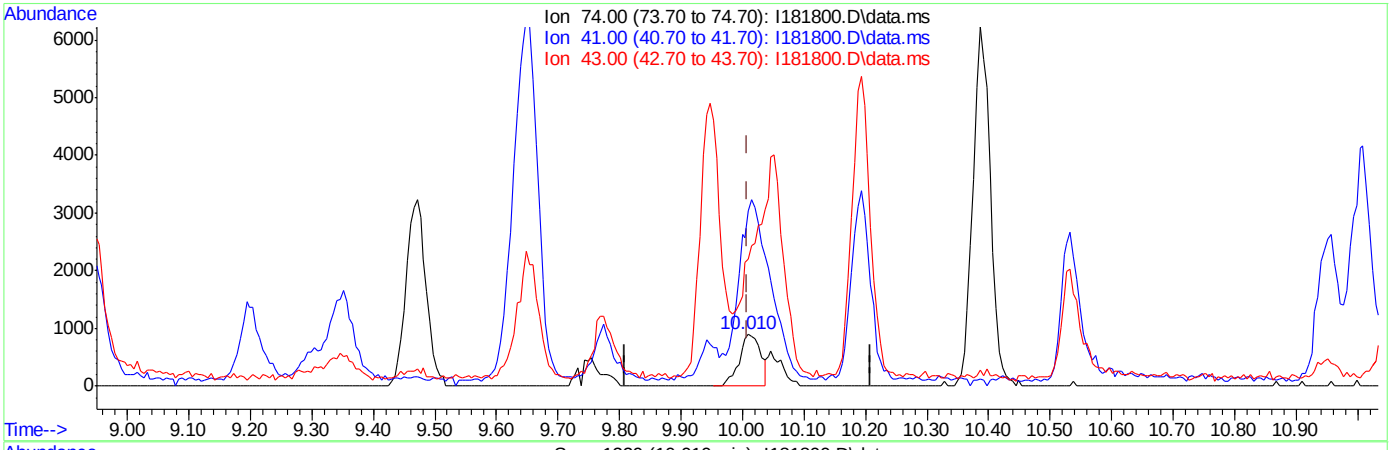
response 685

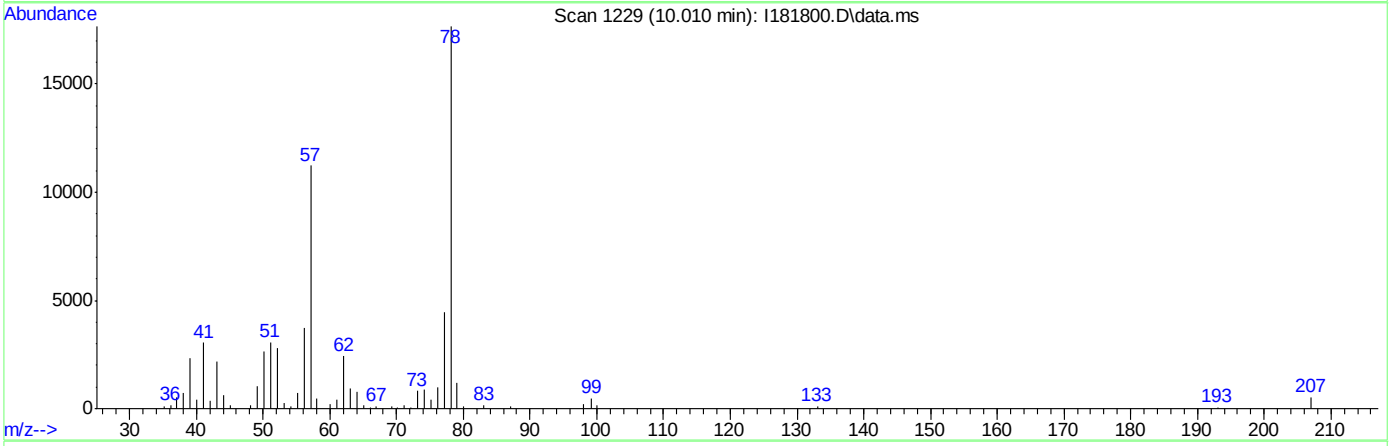
Ion	Exp%	Act%
45.00	100	100
61.00	1108.00	1842.20#
70.10	77.30	77.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181800.D
Acq On : 26 Feb 2013 7:46 pm
Operator : SCOTTM
Sample : IC7342-5
Misc : MS43614,VI7342,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 15:06:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration





TIC: I181800.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 46.78ug/L m

response 2154

Ion	Exp%	Act%
74.00	100	100
41.00	498.80	508.54
43.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/12/13 19:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 09:43:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	65446	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	248040	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.387	114	342549	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	264939	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	150633	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	19064	10.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 20.96%#			
47) 1,2-dichloroethane-d4...	9.931	65	17735	10.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 20.74%#			
76) toluene-d8 (s)	12.039	98	62741	10.22	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 20.44%#			
91) 4-bromofluorobenzene (s)	14.717	95	22351	10.23	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 20.46%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.332	59	7622	51.19	ug/L	88
3) iso-butyl alcohol	10.010	74	4373m	105.93	ug/L	
4) 1,4-dioxane	11.108	88	3187	267.39	ug/L #	94
6) chlorodifluoromethane	3.786	51	21553	10.61	ug/L	99
7) dichlorodifluoromethane	3.760	85	32885	11.23	ug/L	97
8) chloromethane	4.110	50	28959	10.64	ug/L	99
9) vinyl chloride	4.361	62	30025	10.90	ug/L	98
10) bromomethane	5.010	94	18445	10.37	ug/L	92
11) chloroethane	5.193	64	12632	10.10	ug/L	97
12) trichlorofluoromethane	5.637	101	34697	10.90	ug/L	94
13) ethyl ether	6.087	74	8944	10.50	ug/L	89
14) acrolein	6.333	56	23364	98.22	ug/L	97
15) freon 113	6.474	151	13977	11.32	ug/L	100
16) 1,1-dichloroethene	6.495	61	26371	10.68	ug/L	96
17) acetone	6.563	58	1269	12.04	ug/L	93
18) iodomethane	6.772	142	36167	10.82	ug/L #	99
19) carbon disulfide	6.898	76	66368	10.83	ug/L	98
20) methyl acetate	7.044	74	1914	9.91	ug/L #	95
21) allyl chloride	7.039	76	10404	10.41	ug/L	92
22) acetonitrile	7.039	41	39953	103.38	ug/L	97
23) methylene chloride	7.233	84	30301	10.70	ug/L	97
24) methyl tert butyl ether	7.578	73	47506	9.98	ug/L	98
25) acrylonitrile	7.567	53	20444	51.19	ug/L	99
26) trans-1,2-dichloroethene	7.614	96	19813	9.68	ug/L	99
27) hexane	7.923	57	22463	10.54	ug/L	99
28) di-isopropyl ether	8.185	45	54126	10.23	ug/L	92
29) vinyl acetate	8.190	65	10826	10.60	ug/L	97
30) 1,1-dichloroethane	8.190	63	33058	10.65	ug/L	99
31) chloroprene	8.300	53	24961	10.80	ug/L	99
32) ethyl tert-butyl ether	8.655	59	55389	10.23	ug/L	96
33) 2-butanone	8.922	72	1399	9.83	ug/L #	43
34) ethyl acetate	8.943	45	1933	11.92	ug/L	96
35) 2,2-dichloropropane	8.933	77	29684	10.53	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 09:43:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	21452	10.07 ug/L	100
37) methacrylonitrile	9.189	67	5361	10.39 ug/L #	89
38) propionitrile	9.006	54	15555	102.14 ug/L	93
39) bromochloromethane	9.252	128	9699	10.48 ug/L	94
40) tetrahydrofuran	9.293	42	4581	10.53 ug/L	99
41) chloroform	9.314	83	34693	10.34 ug/L	98
42) tert-Butyl Formate	9.346	59	13922	10.06 ug/L #	98
44) 1,1,1-trichloroethane	9.565	97	30847	10.65 ug/L	98
45) cyclohexane	9.639	84	27422	10.75 ug/L	89
48) 1,1-dichloropropene	9.743	75	26236	10.78 ug/L	99
49) carbon tetrachloride	9.769	117	26868	1.38 ug/L	92
50) isopropyl acetate	9.942	61	5262	10.09 ug/L	96
51) benzene	10.010	78	78869	10.47 ug/L	99
52) 2,2,4-trimethylpentane	10.010	57	63271	10.62 ug/L	100
53) tert-amyl methyl ether	10.047	73	51744	9.93 ug/L	98
54) 1,2-dichloroethane	10.026	62	21302	10.35 ug/L	97
55) heptane	10.193	57	12566	10.18 ug/L	97
56) n-butyl alcohol	10.528	56	16540	507.30 ug/L	93
57) trichloroethene	10.732	95	20644	10.77 ug/L	98
59) methyl methacrylate	11.009	69	8933	10.07 ug/L	92
60) 1,2-dichloropropane	10.993	63	18410	10.52 ug/L	96
61) methylcyclohexane	10.951	83	30519	10.79 ug/L	98
62) dibromomethane	11.155	93	10405	10.49 ug/L	96
63) bromodichloromethane	11.286	83	24310	10.32 ug/L	99
64) 2-nitropropane	11.511	41	3955	9.58 ug/L #	92
65) 2-chloroethyl vinyl ether	11.532	63	22112	52.67 ug/L	98
66) epichlorohydrin	11.652	57	5475	51.49 ug/L #	94
67) cis-1,3-dichloropropene	11.746	75	28666	10.24 ug/L	98
68) 4-methyl-2-pentanone	11.846	58	4380	9.84 ug/L	99
69) 3-methyl-1-butanol	11.872	70	6017	200.29 ug/L	92
70) toluene	12.113	91	82216	10.47 ug/L	100
71) trans-1,3-dichloropropene	12.316	75	24216	10.01 ug/L	92
72) ethyl methacrylate	12.311	69	16880	10.00 ug/L	99
73) 1,1,2-trichloroethane	12.531	83	11840	10.17 ug/L	100
74) 2-hexanone	12.704	58	3621	9.64 ug/L	92
77) tetrachloroethene	12.698	166	22434	10.89 ug/L	99
78) 1,3-dichloropropane	12.709	76	20463	10.18 ug/L	96
79) butyl acetate	12.782	56	6870	9.77 ug/L	98
80) 3,3-Dimethyl-1-Butanol	12.876	57	10798	99.88 ug/L #	98
81) dibromochloromethane	12.970	129	17416	10.19 ug/L	98
82) 1,2-dibromoethane	13.122	107	14233	10.35 ug/L #	100
83) chlorobenzene	13.587	112	50493	10.40 ug/L	99
84) 1,1,1,2-tetrachloroethane	13.645	131	18714	10.51 ug/L	96
85) ethylbenzene	13.640	91	86744	10.40 ug/L	99
86) m,p-xylene	13.750	106	68925	21.62 ug/L	98
87) o-xylene	14.168	106	32857	10.53 ug/L	100
88) styrene	14.178	104	54575	10.29 ug/L	99
89) bromoform	14.440	173	11185	10.19 ug/L	94
92) isopropylbenzene	14.513	105	87051	10.59 ug/L	100
93) cyclohexanone	14.675	55	3204	102.56 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 09:43:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

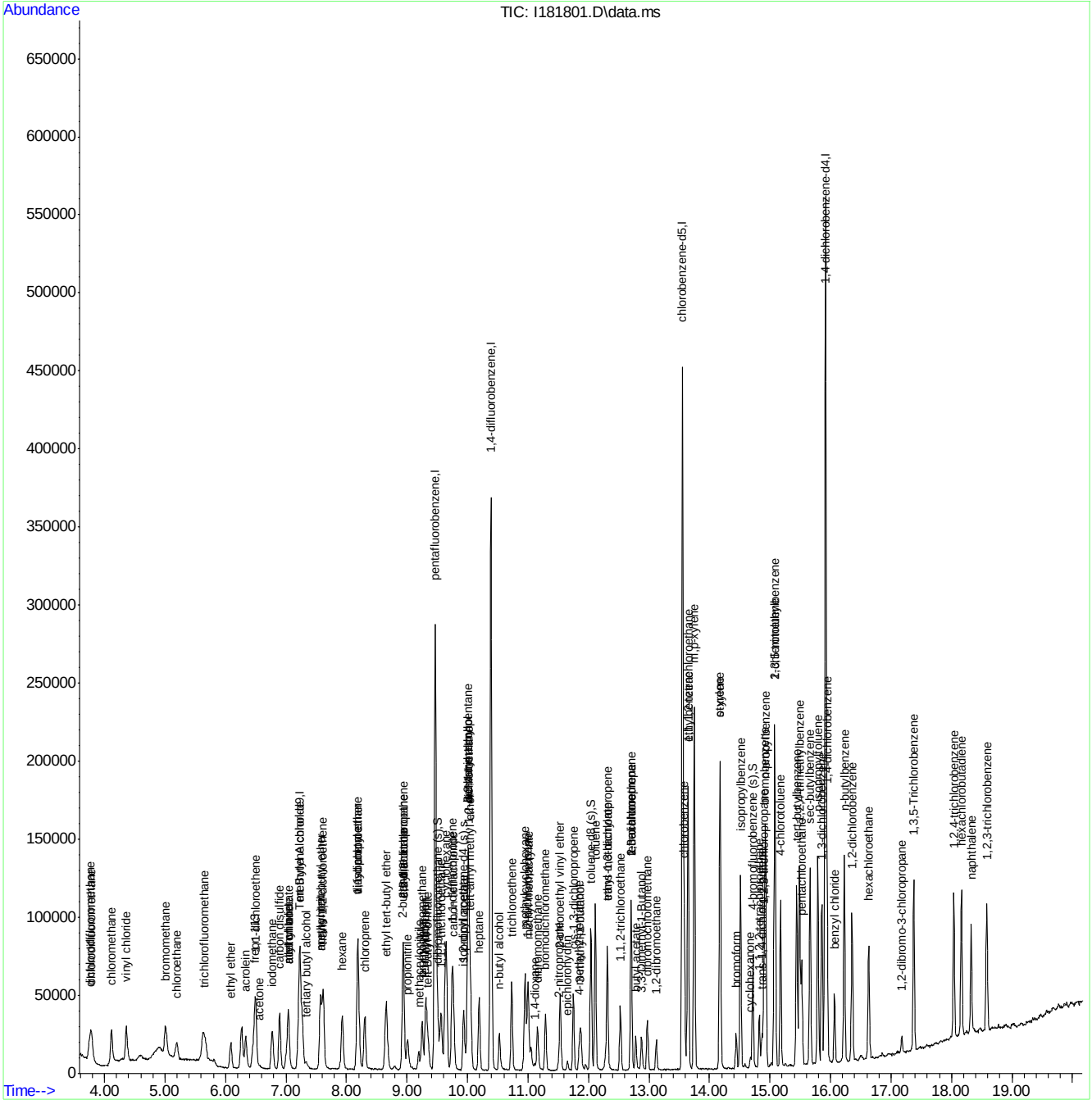
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	16980	9.85	ug/L	99
95) trans-1,4-dichloro-2-b...	14.869	53	4003	10.02	ug/L	98
96) 1,2,3-trichloropropane	14.895	110	3660	10.05	ug/L	92
97) n-propylbenzene	14.926	91	101492	10.52	ug/L	100
98) bromobenzene	14.911	156	23236	10.15	ug/L	98
99) 2-chlorotoluene	15.073	126	21805	10.40	ug/L	99
100) 4-chlorotoluene	15.177	91	61859	10.28	ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	75007	10.30	ug/L	99
102) tert-butylbenzene	15.439	119	63554	10.44	ug/L	98
103) pentachloroethane	15.523	167	15074	10.52	ug/L	96
104) 1,2,4-trimethylbenzene	15.491	105	75633	10.10	ug/L	98
105) sec-butylbenzene	15.664	105	99471	10.65	ug/L	98
106) p-isopropyltoluene	15.789	119	82797	10.65	ug/l	99
107) benzyl chloride	16.067	91	31967	9.61	ug/L	98
108) 1,3-dichlorobenzene	15.857	146	46291	10.23	ug/L	98
109) 1,4-dichlorobenzene	15.946	146	45809	9.96	ug/L	99
110) 1,2-dichlorobenzene	16.359	146	42718	10.10	ug/L	98
111) n-butylbenzene	16.229	92	42733	10.69	ug/L	98
112) hexachloroethane	16.631	119	16095	10.45	ug/L	97
113) 1,2-dibromo-3-chloropr...	17.181	157	3607	9.98	ug/L	95
114) 1,3,5-Trichlorobenzene	17.374	180	37984	10.40	ug/L	99
115) 1,2,4-trichlorobenzene	18.044	180	31521	10.42	ug/L	99
116) hexachlorobutadiene	18.164	225	22898	11.03	ug/L	97
117) naphthalene	18.326	128	55026	10.23	ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	27671	10.48	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 09:43:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



MI7342.M Tue Mar 12 15:07:54 2013 RPT1 Page: 4

Manual Integration Approval Summary

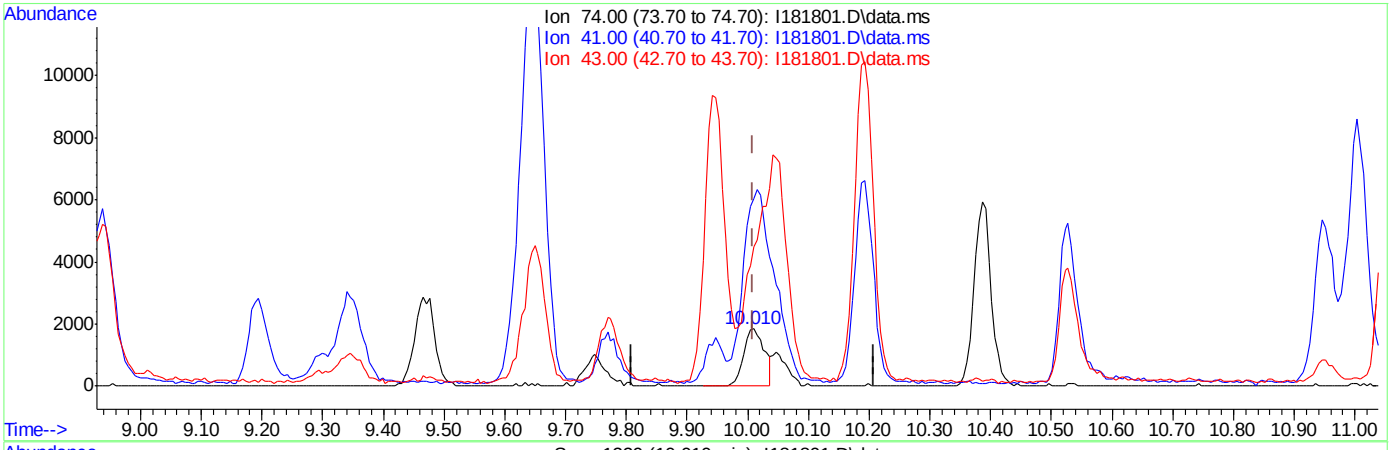
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181801.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 20:15	**Supervisor approved:**	03/12/13 19:37 Kanya Veerawat

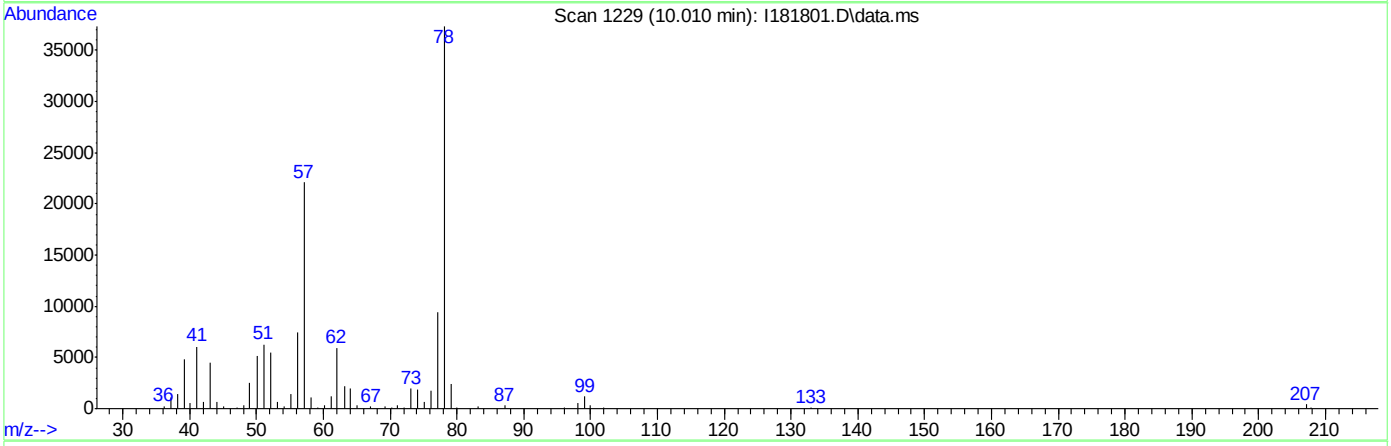
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl alcohol	78-83-1		10.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 09:43:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration





TIC: I181801.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 105.93ug/L m

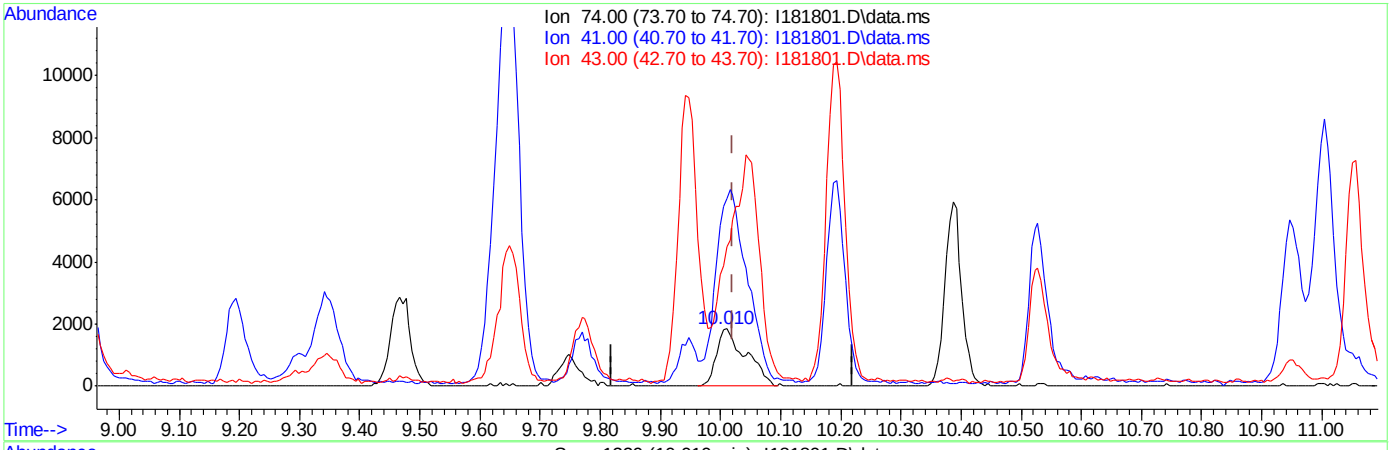
response 4373

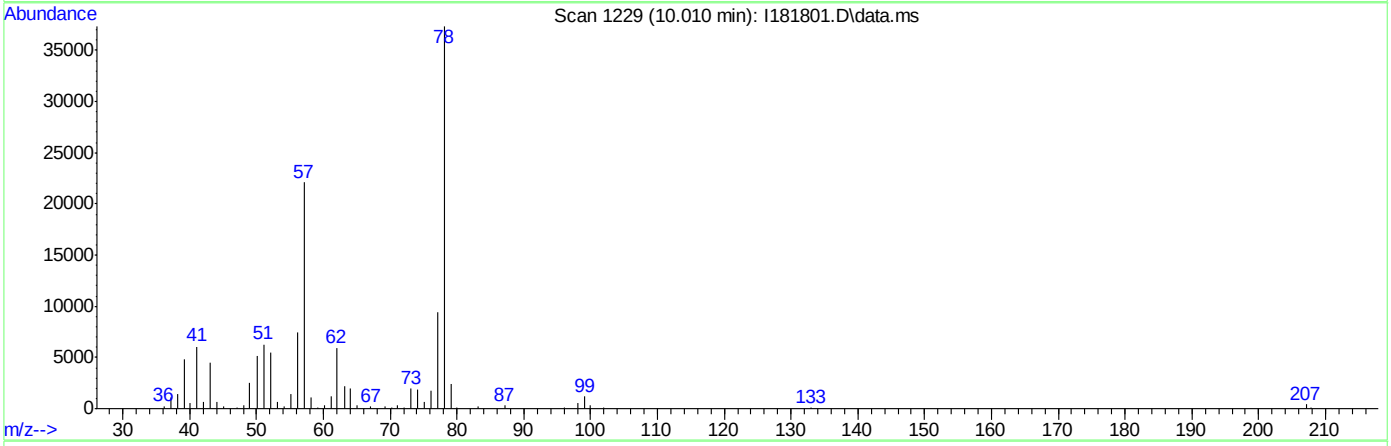
Ion	Exp%	Act%
74.00	100	100
41.00	498.80	509.42
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181801.D
Acq On : 26 Feb 2013 8:15 pm
Operator : SCOTTM
Sample : IC7342-10
Misc : MS43614,VI7342,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 21:38:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181801.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.010) 114.87ug/L

response 6234

Ion	Exp%	Act%
74.00	100	100
41.00	502.70	354.78#
43.00	577.60	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/12/13 13:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 09:43:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	63734	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	256302	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.387	114	351892	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	276467	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	156133	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	37797	20.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 40.22%#			
47) 1,2-dichloroethane-d4...	9.937	65	34431	19.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 39.20%#			
76) toluene-d8 (s)	12.039	98	128415	20.05	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 40.10%#			
91) 4-bromofluorobenzene (s)	14.717	95	45076	19.91	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 39.82%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.337	59	14673	101.19	ug/L	91
3) iso-butyl alcohol	10.010	74	8326m	207.11	ug/L	
4) 1,4-dioxane	11.108	88	6008	517.62	ug/L #	97
6) chlorodifluoromethane	3.786	51	39183	18.67	ug/L	99
7) dichlorodifluoromethane	3.765	85	60541	20.01	ug/L	100
8) chloromethane	4.116	50	55561	19.76	ug/L	99
9) vinyl chloride	4.367	62	56847	19.97	ug/L	97
10) bromomethane	5.015	94	36948	20.10	ug/L	97
11) chloroethane	5.203	64	25276	19.56	ug/L	97
12) trichlorofluoromethane	5.632	101	67060	20.38	ug/L	98
13) ethyl ether	6.087	74	17490	19.87	ug/L	97
14) acrolein	6.333	56	47105	191.64	ug/L	99
15) freon 113	6.474	151	26435	20.71	ug/L	99
16) 1,1-dichloroethene	6.495	61	52032	20.39	ug/L	99
17) acetone	6.558	58	2111	19.39	ug/L	91
18) iodomethane	6.773	142	70167	20.31	ug/L #	99
19) carbon disulfide	6.898	76	127332	20.12	ug/L	98
20) methyl acetate	7.039	74	3804	19.06	ug/L	97
21) allyl chloride	7.039	76	20677	20.02	ug/L	96
22) acetonitrile	7.039	41	78043	195.43	ug/L	100
23) methylene chloride	7.233	84	47129	19.13	ug/L	98
24) methyl tert butyl ether	7.578	73	92055	18.71	ug/L	99
25) acrylonitrile	7.568	53	39527	95.77	ug/L	100
26) trans-1,2-dichloroethene	7.620	96	38521	18.21	ug/L	96
27) hexane	7.928	57	37565	19.23	ug/L	99
28) di-isopropyl ether	8.190	45	106829	19.55	ug/L	97
29) vinyl acetate	8.190	65	21067	19.97	ug/L	99
30) 1,1-dichloroethane	8.195	63	64405	20.08	ug/L	99
31) chloroprene	8.300	53	48185	20.18	ug/L	99
32) ethyl tert-butyl ether	8.655	59	111118	19.86	ug/L	98
33) 2-butanone	8.917	72	2825	19.20	ug/L #	100
34) ethyl acetate	8.938	45	3598	21.46	ug/L	82
35) 2,2-dichloropropane	8.938	77	55854	19.17	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 09:43:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	42206	19.17 ug/L	99
37) methacrylonitrile	9.194	67	10248	19.23 ug/L #	97
38) propionitrile	9.006	54	30409	193.24 ug/L	92
39) bromochloromethane	9.252	128	19181	20.06 ug/L	95
40) tetrahydrofuran	9.299	42	8514	18.94 ug/L	98
41) chloroform	9.314	83	67597	19.49 ug/L	99
42) tert-Butyl Formate	9.346	59	27835	19.47 ug/L #	99
44) 1,1,1-trichloroethane	9.565	97	59550	19.89 ug/L	100
45) cyclohexane	9.633	84	52009	19.73 ug/L	87
48) 1,1-dichloropropene	9.743	75	48534	19.42 ug/L	97
49) carbon tetrachloride	9.769	117	51435	2.57 ug/L	93
50) isopropyl acetate	9.947	61	10467	19.53 ug/L	99
51) benzene	10.010	78	153457	19.84 ug/L	99
52) 2,2,4-trimethylpentane	10.010	57	120306	19.65 ug/L	99
53) tert-amyl methyl ether	10.052	73	104035	19.44 ug/L	100
54) 1,2-dichloroethane	10.026	62	41294	19.54 ug/L	98
55) heptane	10.188	57	23080	18.21 ug/L	99
56) n-butyl alcohol	10.523	56	30473	909.83 ug/L	99
57) trichloroethene	10.732	95	39513	20.07 ug/L	99
59) methyl methacrylate	11.009	69	17031	18.69 ug/L	96
60) 1,2-dichloropropane	10.993	63	35092	19.51 ug/L	98
61) methylcyclohexane	10.951	83	57462	19.78 ug/L	98
62) dibromomethane	11.155	93	20329	19.95 ug/L	94
63) bromodichloromethane	11.291	83	47898	19.79 ug/L	99
64) 2-nitropropane	11.506	41	7655	18.04 ug/L #	98
65) 2-chloroethyl vinyl ether	11.532	63	39327	91.18 ug/L	99
66) epichlorohydrin	11.652	57	10803	98.89 ug/L #	96
67) cis-1,3-dichloropropene	11.746	75	56485	19.64 ug/L	98
68) 4-methyl-2-pentanone	11.846	58	8791	19.22 ug/L	96
69) 3-methyl-1-butanol	11.872	70	11197	357.75 ug/L	97
70) toluene	12.113	91	159439	19.76 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	47149	18.96 ug/L	98
72) ethyl methacrylate	12.311	69	33040	19.06 ug/L	97
73) 1,1,2-trichloroethane	12.526	83	22973	19.22 ug/L	98
74) 2-hexanone	12.704	58	7411	19.21 ug/L	99
77) tetrachloroethene	12.704	166	42346	19.69 ug/L	98
78) 1,3-dichloropropane	12.709	76	40208	19.17 ug/L	98
79) butyl acetate	12.782	56	13738	18.72 ug/L	97
80) 3,3-Dimethyl-1-Butanol	12.876	57	20148	178.59 ug/L #	99
81) dibromochloromethane	12.970	129	34799	19.52 ug/L	99
82) 1,2-dibromoethane	13.122	107	27893	19.44 ug/L	100
83) chlorobenzene	13.588	112	98972	19.53 ug/L	99
84) 1,1,1,2-tetrachloroethane	13.645	131	36830	19.82 ug/L	97
85) ethylbenzene	13.645	91	169037	19.42 ug/L	99
86) m,p-xylene	13.750	106	130922	39.35 ug/L	99
87) o-xylene	14.168	106	63788	19.59 ug/L	97
88) styrene	14.179	104	107893	19.50 ug/L	100
89) bromoform	14.440	173	22409	19.57 ug/L	98
92) isopropylbenzene	14.513	105	166680	19.57 ug/L	99
93) cyclohexanone	14.675	55	6009	185.57 ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 09:43:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	33717	18.87	ug/L	100
95) trans-1,4-dichloro-2-b...	14.869	53	7698	18.59	ug/L	97
96) 1,2,3-trichloropropane	14.895	110	7132	18.90	ug/L	97
97) n-propylbenzene	14.926	91	196935	19.70	ug/L	98
98) bromobenzene	14.911	156	46347	19.53	ug/L	99
99) 2-chlorotoluene	15.073	126	42069	19.35	ug/L	99
100) 4-chlorotoluene	15.178	91	121182	19.43	ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	145989	19.34	ug/L	99
102) tert-butylbenzene	15.439	119	123316	19.55	ug/L	99
103) pentachloroethane	15.523	167	29440	19.82	ug/L	98
104) 1,2,4-trimethylbenzene	15.486	105	146809	18.91	ug/L	99
105) sec-butylbenzene	15.664	105	189582	19.58	ug/L	100
106) p-isopropyltoluene	15.789	119	159597	19.81	ug/l	100
107) benzyl chloride	16.067	91	63855	18.51	ug/L	100
108) 1,3-dichlorobenzene	15.857	146	88460	18.85	ug/L	98
109) 1,4-dichlorobenzene	15.946	146	88567	18.58	ug/L	98
110) 1,2-dichlorobenzene	16.360	146	83654	19.08	ug/L	98
111) n-butylbenzene	16.229	92	83285	20.11	ug/L	99
112) hexachloroethane	16.632	119	31428	19.68	ug/L	99
113) 1,2-dibromo-3-chloropr...	17.175	157	7133	19.05	ug/L	96
114) 1,3,5-Trichlorobenzene	17.379	180	73343	19.37	ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	61841	19.73	ug/L	99
116) hexachlorobutadiene	18.164	225	43111	20.04	ug/L	98
117) naphthalene	18.326	128	107848	19.34	ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	54275	19.83	ug/L	99

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

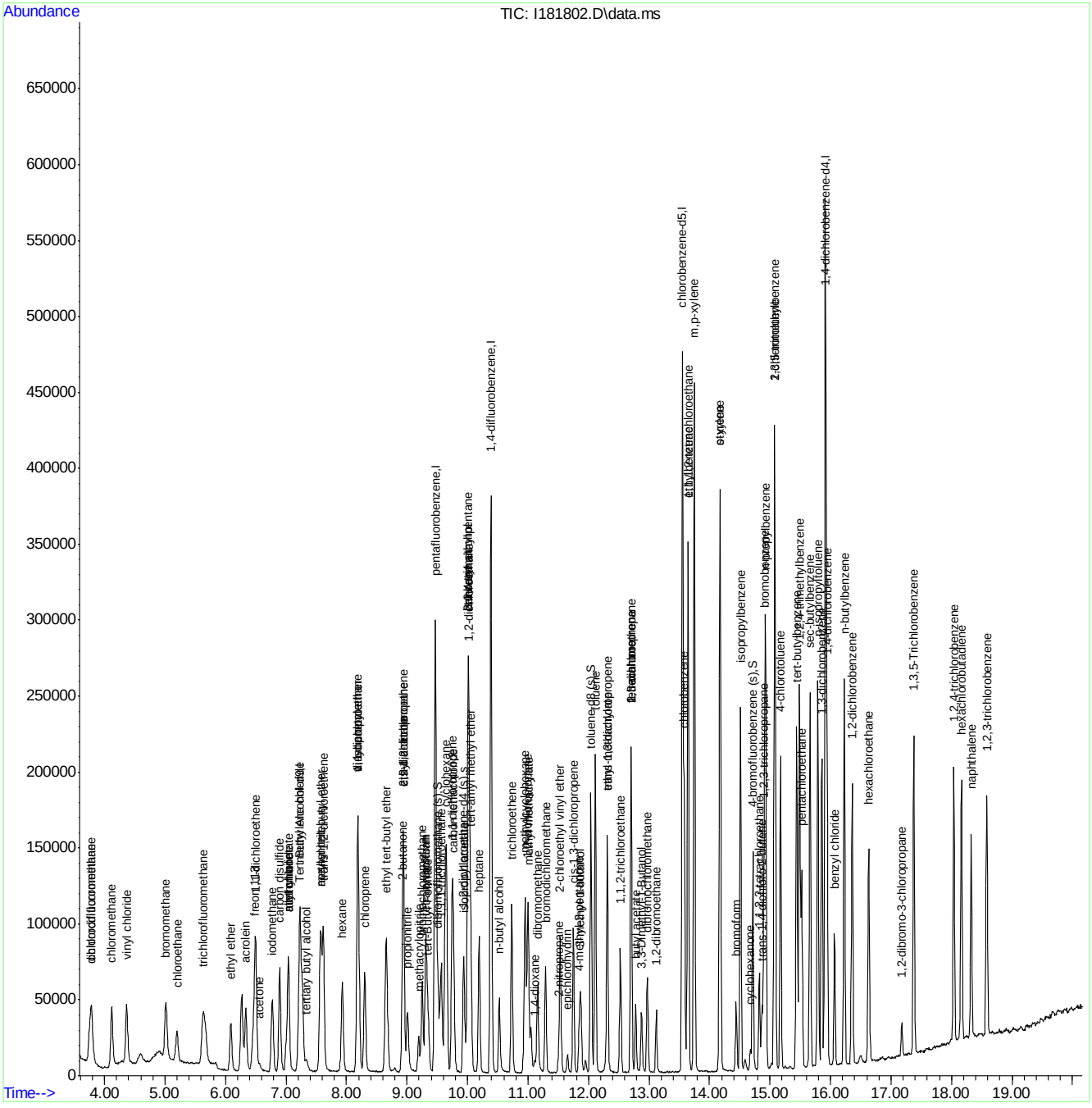
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 09:43:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

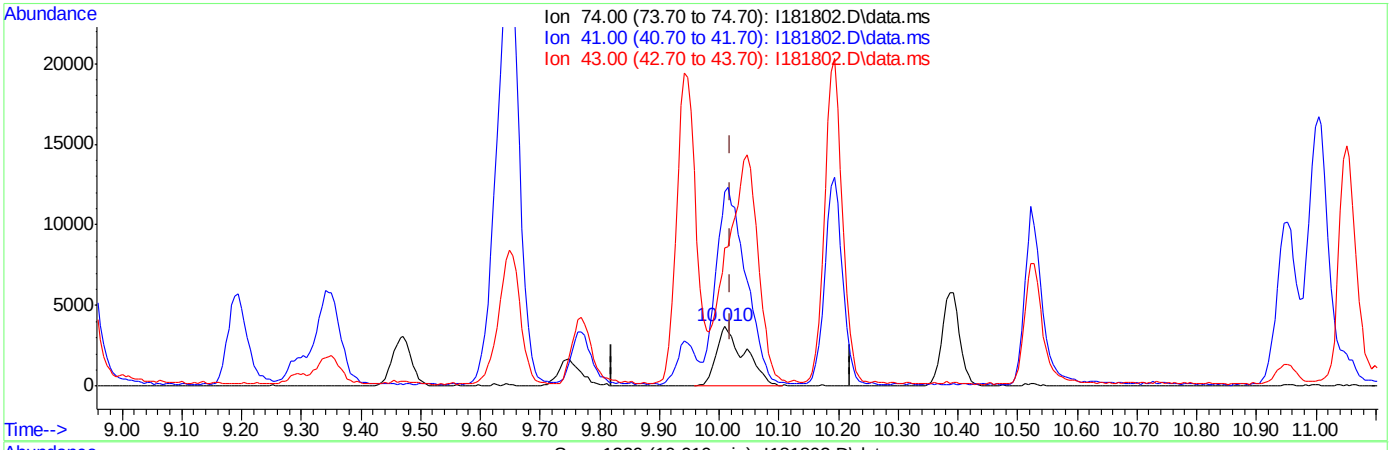
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181802.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 20:44	**Supervisor approved:**	03/12/13 13:06 Kanya Veerawat

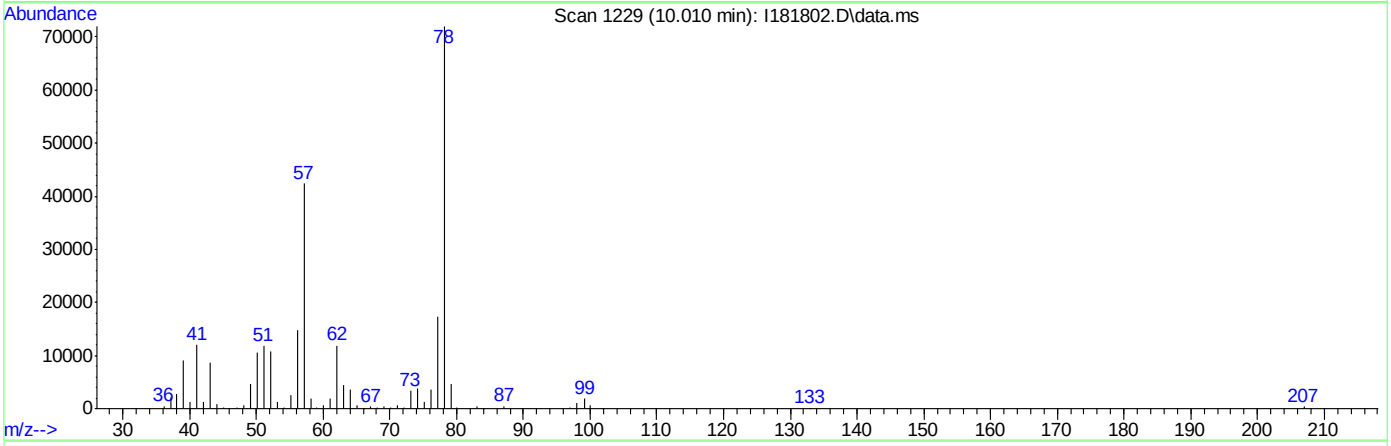
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl alcohol	78-83-1		10.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 26 21:07:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181802.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.010) 230.64ug/L

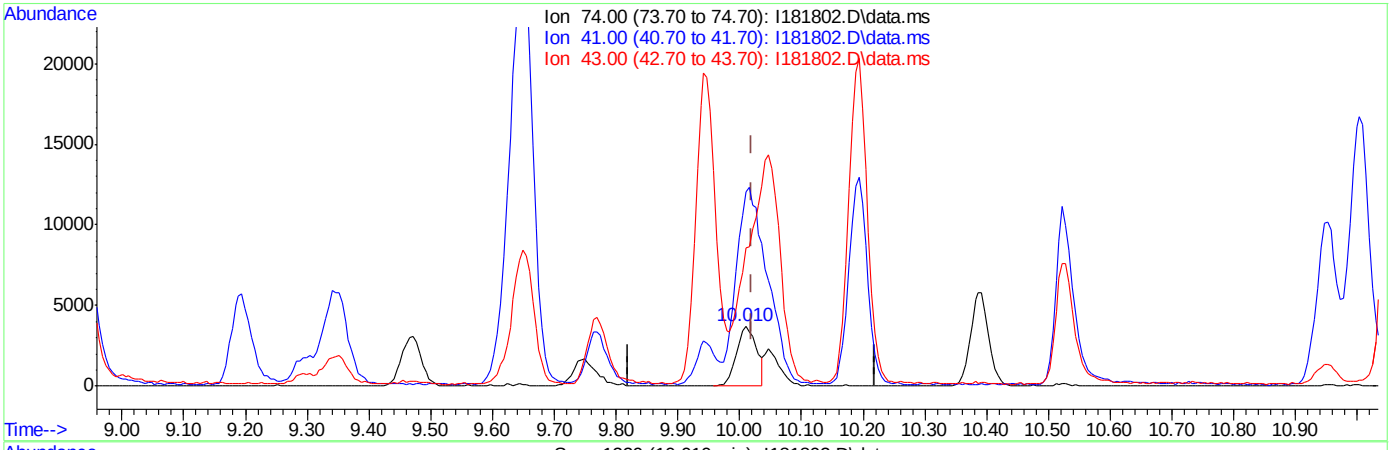
response 12189

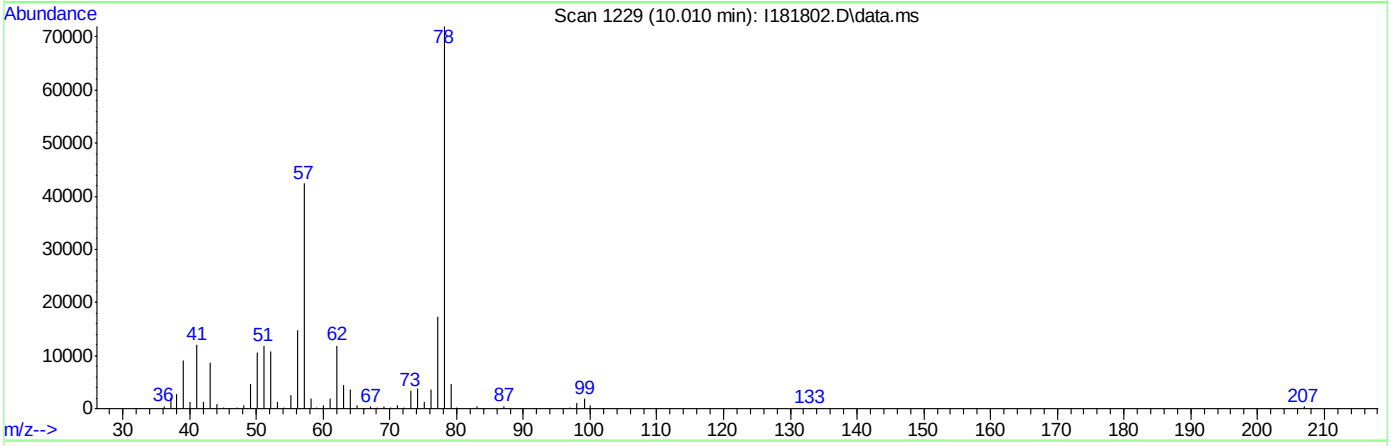
Ion	Exp%	Act%
74.00	100	100
41.00	502.70	350.04#
43.00	577.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181802.D
Acq On : 26 Feb 2013 8:44 pm
Operator : SCOTTM
Sample : IC7342-20
Misc : MS43614,VI7342,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 08:55:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181802.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.010) 157.54ug/L m

response 8326

Ion	Exp%	Act%
74.00	100	100
41.00	502.70	512.44
43.00	577.60	0.00#
0.00	0.00	0.00

I181803.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 03/13/13 12:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 09:43:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	80116	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	274722	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	380472	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	299820	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	171182	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	376027	186.65	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 373.30%#			
47) 1,2-dichloroethane-d4...	9.937	65	357085	188.03	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 376.06%#			
76) toluene-d8 (s)	12.039	98	1359010	195.68	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 391.36%#			
91) 4-bromofluorobenzene (s)	14.717	95	489252	197.09	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 394.18%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.342	59	160601	881.05	ug/L	98
3) iso-butyl alcohol	10.015	74	92396m	1828.38	ug/L	
4) 1,4-dioxane	11.113	88	72077	4940.00	ug/L	97
6) chlorodifluoromethane	3.796	51	418389	185.95	ug/L	99
7) dichlorodifluoromethane	3.770	85	634352	195.57	ug/L	98
8) chloromethane	4.136	50	547134	181.52	ug/L	98
9) vinyl chloride	4.382	62	572851	187.77	ug/L	100
10) bromomethane	5.031	94	370634	188.14	ug/L	98
11) chloroethane	5.203	64	248404	179.30	ug/L	98
12) trichlorofluoromethane	5.648	101	694519	196.93	ug/L	100
13) ethyl ether	6.092	74	176514	187.10	ug/L	97
15) freon 113	6.479	151	288100	210.59	ug/L	100
16) 1,1-dichloroethene	6.500	61	555277	202.96	ug/L	99
17) acetone	6.563	58	20517	175.78	ug/L	97
18) iodomethane	6.778	142	749614	202.41	ug/L #	100
19) carbon disulfide	6.903	76	1379562	203.34	ug/L	100
20) methyl acetate	7.039	74	43406	202.94	ug/L	99
21) allyl chloride	7.044	76	219545	198.29	ug/L	89
22) acetonitrile	7.044	41	835358	1951.55	ug/L	99
23) methylene chloride	7.238	84	412347	198.94	ug/L	99
24) methyl tert butyl ether	7.583	73	990623	187.88	ug/L	99
25) acrylonitrile	7.567	53	443606	1002.79	ug/L	100
26) trans-1,2-dichloroethene	7.620	96	414102	182.61	ug/L	99
27) hexane	7.933	57	359187	199.38	ug/L	100
28) di-isopropyl ether	8.190	45	1122563	191.63	ug/L	99
29) vinyl acetate	8.195	65	221390	195.79	ug/L	99
30) 1,1-dichloroethane	8.195	63	686266	199.64	ug/L	100
31) chloroprene	8.305	53	525445	205.31	ug/L	99
32) ethyl tert-butyl ether	8.660	59	1184395	197.45	ug/L	99
33) 2-butanone	8.906	72	31677	200.91	ug/L #	92
34) ethyl acetate	8.938	45	33405	185.92	ug/L	89
35) 2,2-dichloropropane	8.943	77	599588	191.96	ug/L	99
36) cis-1,2-dichloroethene	8.943	96	448280	189.94	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 09:43:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) methacrylonitrile	9.194	67	116136	203.27 ug/L	99
38) propionitrile	9.006	54	349108	2069.70 ug/L	98
39) bromochloromethane	9.257	128	206811	201.81 ug/L	99
40) tetrahydrofuran	9.293	42	84765	175.90 ug/L	97
41) chloroform	9.314	83	723105	194.54 ug/L	100
42) tert-Butyl Formate	9.351	59	303456	198.03 ug/L #	99
44) 1,1,1-trichloroethane	9.565	97	645577	201.20 ug/L	100
45) cyclohexane	9.639	84	568963	201.32 ug/L	98
48) 1,1-dichloropropene	9.748	75	537294	198.79 ug/L	99
49) carbon tetrachloride	9.775	117	564537	26.12 ug/L	93
50) isopropyl acetate	9.942	61	118676	204.79 ug/L	99
51) benzene	10.010	78	1639298	196.00 ug/L	100
52) 2,2,4-trimethylpentane	10.020	57	1306589	197.37 ug/L	99
53) tert-amyl methyl ether	10.052	73	1113220	192.35 ug/L	99
54) 1,2-dichloroethane	10.026	62	459489	201.09 ug/L	100
55) heptane	10.193	57	256168	186.91 ug/L	99
56) n-butyl alcohol	10.522	56	375610	10372.12 ug/L	99
57) trichloroethene	10.732	95	432493	203.13 ug/L	99
59) methyl methacrylate	11.009	69	191082	193.97 ug/L	96
60) 1,2-dichloropropane	10.998	63	387003	199.03 ug/L	99
61) methylcyclohexane	10.951	83	634247	201.96 ug/L	100
62) dibromomethane	11.155	93	224397	203.67 ug/L	99
63) bromodichloromethane	11.291	83	531784	203.21 ug/L	98
64) 2-nitropropane	11.506	41	88131	192.14 ug/L	96
65) 2-chloroethyl vinyl ether	11.537	63	480505	1030.42 ug/L	100
66) epichlorohydrin	11.652	57	114650	970.67 ug/L	99
67) cis-1,3-dichloropropene	11.752	75	614410	197.55 ug/L	99
68) 4-methyl-2-pentanone	11.846	58	101902	206.10 ug/L	98
69) 3-methyl-1-butanol	11.872	70	136562	3971.39 ug/L	97
70) toluene	12.112	91	1729959	198.31 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	518972	193.07 ug/L	99
72) ethyl methacrylate	12.311	69	381000	203.29 ug/L	100
73) 1,1,2-trichloroethane	12.526	83	254878	197.18 ug/L	99
74) 2-hexanone	12.703	58	86202	206.67 ug/L	96
77) tetrachloroethene	12.703	166	471619	202.24 ug/L	99
78) 1,3-dichloropropane	12.709	76	440181	193.53 ug/L	100
79) butyl acetate	12.782	56	150245	188.75 ug/L	95
80) 3,3-Dimethyl-1-Butanol	12.876	57	230380	1882.99 ug/L	99
81) dibromochloromethane	12.975	129	401997	207.93 ug/L	100
82) 1,2-dibromoethane	13.122	107	312993	201.11 ug/L	100
83) chlorobenzene	13.587	112	1077355	196.06 ug/L	98
84) 1,1,1,2-tetrachloroethane	13.650	131	406174	201.60 ug/L	99
85) ethylbenzene	13.645	91	1833025	194.15 ug/L	99
86) m,p-xylene	13.749	106	1417801	392.99 ug/L	98
87) o-xylene	14.168	106	700774	198.46 ug/L	99
88) styrene	14.178	104	1192895	198.84 ug/L	99
89) bromoform	14.440	173	273383	220.15 ug/L	97
92) isopropylbenzene	14.513	105	1844988	197.54 ug/L	99
93) cyclohexanone	14.675	55	66906	1884.52 ug/L	94
94) 1,1,2,2-tetrachloroethane	14.822	83	373316	190.61 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 09:43:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) trans-1,4-dichloro-2-b...	14.864	53	90546	199.46 ug/L	97
96) 1,2,3-trichloropropane	14.895	110	81966	198.08 ug/L	97
97) n-propylbenzene	14.926	91	2132820	194.59 ug/L	100
98) bromobenzene	14.911	156	506956	194.86 ug/L	99
99) 2-chlorotoluene	15.078	126	457203	191.80 ug/L	99
100) 4-chlorotoluene	15.177	91	1328230	194.25 ug/L	100
101) 1,3,5-trimethylbenzene	15.083	105	1592642	192.44 ug/L	99
102) tert-butylbenzene	15.444	119	1371361	198.28 ug/L	99
103) pentachloroethane	15.528	167	335039	205.75 ug/L	98
104) 1,2,4-trimethylbenzene	15.491	105	1617148	189.97 ug/L	98
105) sec-butylbenzene	15.664	105	2075695	195.53 ug/L	99
106) p-isopropyltoluene	15.795	119	1738990	196.87 ug/l	99
107) benzyl chloride	16.067	91	734471	194.20 ug/L	100
108) 1,3-dichlorobenzene	15.857	146	979632	190.44 ug/L	99
109) 1,4-dichlorobenzene	15.946	146	985035	188.45 ug/L	100
110) 1,2-dichlorobenzene	16.359	146	909846	189.29 ug/L	99
111) n-butylbenzene	16.229	92	912500	200.94 ug/L	99
112) hexachloroethane	16.637	119	346416	197.87 ug/L	100
113) 1,2-dibromo-3-chloropr...	17.181	157	74166	180.62 ug/L	99
114) 1,3,5-Trichlorobenzene	17.379	180	755558	181.97 ug/L	99
115) 1,2,4-trichlorobenzene	18.044	180	627580	182.61 ug/L	99
116) hexachlorobutadiene	18.164	225	419660	177.93 ug/L	99
117) naphthalene	18.326	128	1070983	175.16 ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	517403	172.39 ug/L	99

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

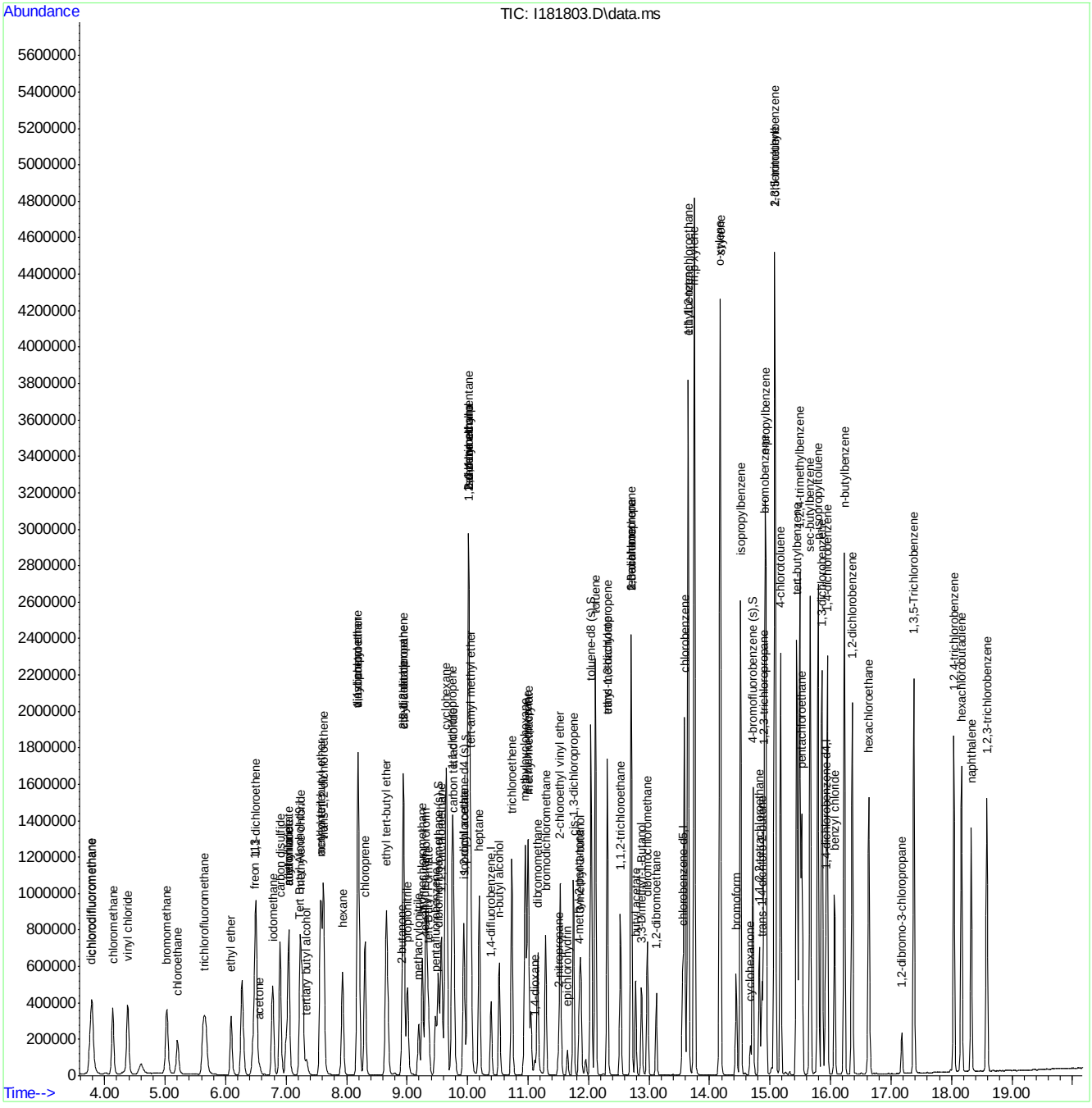
7.7.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 09:43:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



Manual Integration Approval Summary

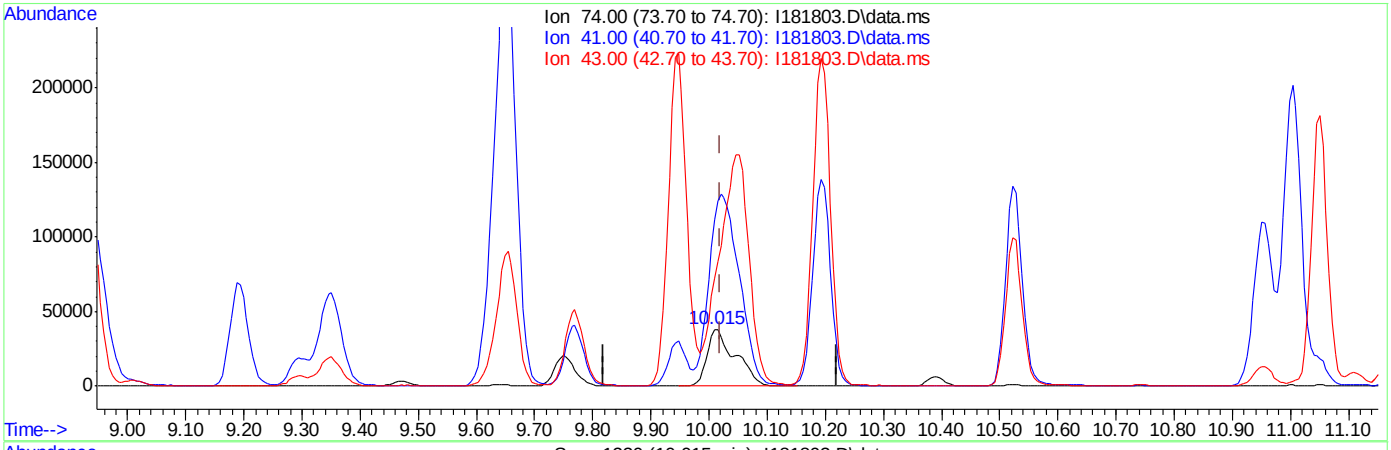
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181803.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 21:13	**Supervisor approved:**	03/13/13 12:26 Kanya Veerawat

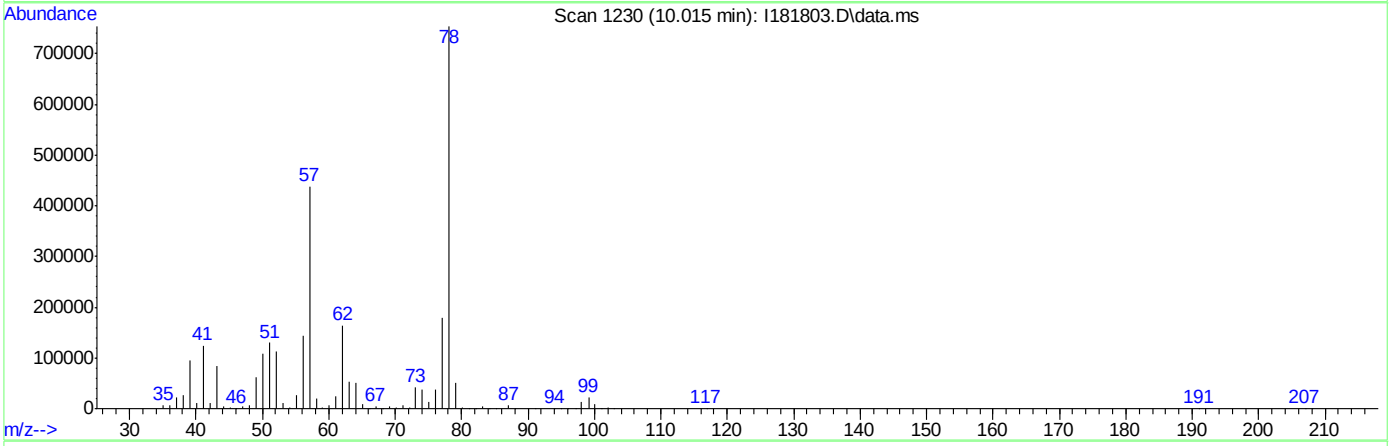
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl alcohol	78-83-1		10.02	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 26 21:36:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181803.D\data.ms

(3) iso-butyl alcohol

10.015min (-0.005) 1935.02ug/L

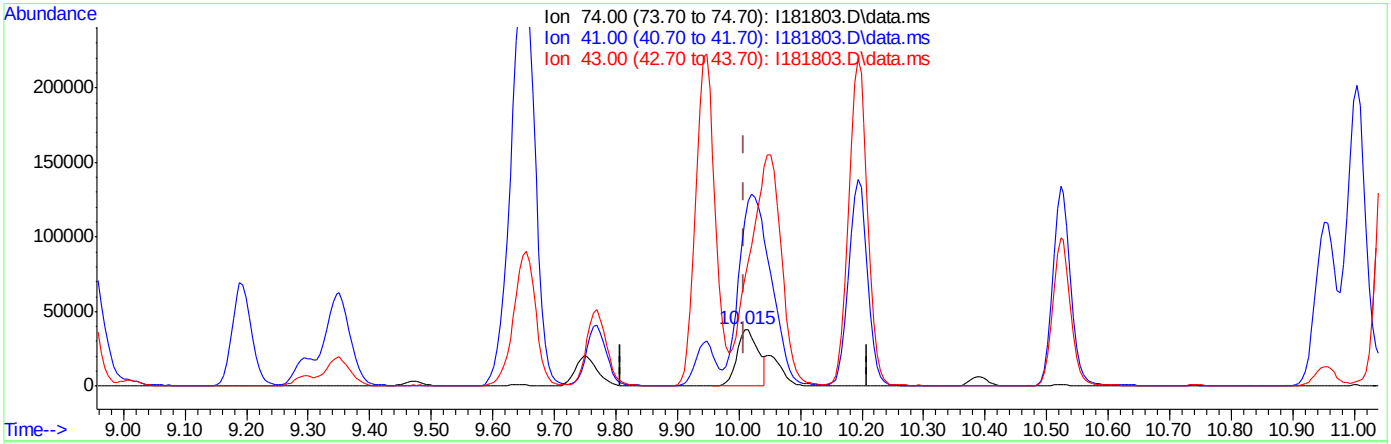
response 128551

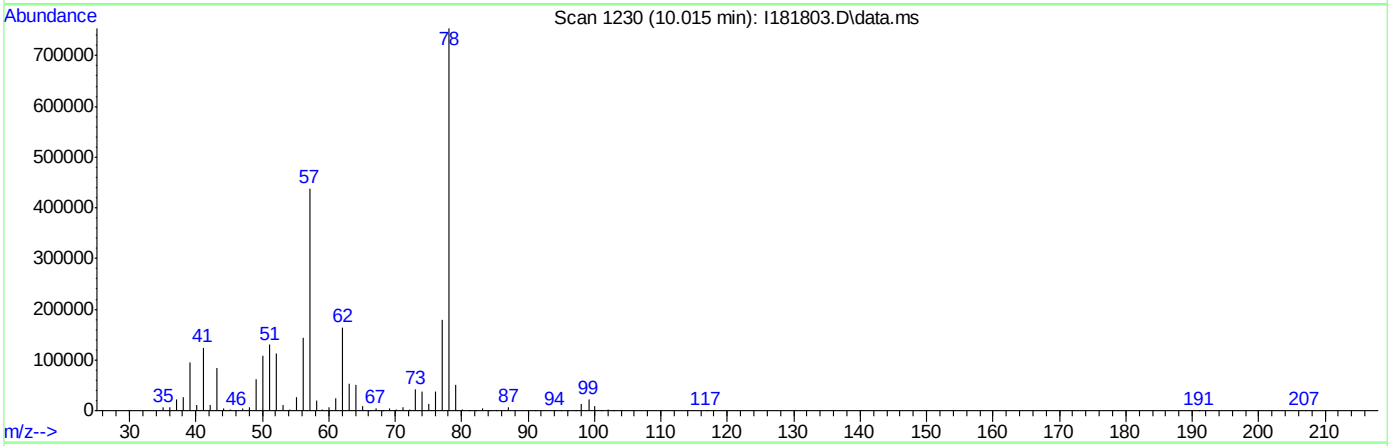
Ion	Exp%	Act%
74.00	100	100
41.00	502.70	357.54#
43.00	577.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181803.D
Acq On : 26 Feb 2013 9:13 pm
Operator : SCOTTM
Sample : IC7342-200
Misc : MS43614,VI7342,,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 09:43:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration





TIC: I181803.D\data.ms

(3) iso-butyl alcohol

10.015min (+0.006) 1828.38ug/L m

response 92396

Ion	Exp%	Act%
74.00	100	100
41.00	498.80	499.68
43.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/13/13 12:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 09:44:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	70488	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	257211	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.386	114	352212	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	276630	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	159836	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.513	113	187474	99.39	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 198.78%#			
47) 1,2-dichloroethane-d4...	9.931	65	177623	101.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 202.08%#			
76) toluene-d8 (s)	12.039	98	673355	105.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 210.16%#			
91) 4-bromofluorobenzene (s)	14.717	95	240459	103.74	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 207.48%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.337	59	77916	485.83	ug/L	98
3) iso-butyl alcohol	10.010	74	46708m	1050.53	ug/L	
4) 1,4-dioxane	11.108	88	32865	2560.16	ug/L #	98
6) chlorodifluoromethane	3.786	51	203416	96.56	ug/L	99
7) dichlorodifluoromethane	3.760	85	318552	104.89	ug/L	99
8) chloromethane	4.121	50	279850	99.17	ug/L	99
9) vinyl chloride	4.372	62	292880	102.54	ug/L	99
10) bromomethane	5.015	94	184910	100.25	ug/L	98
11) chloroethane	5.193	64	125094	96.44	ug/L	99
12) trichlorofluoromethane	5.637	101	345161	104.53	ug/L	99
13) ethyl ether	6.087	74	88441	100.13	ug/L	99
14) acrolein	6.333	56	240357	974.42	ug/L	100
15) freon 113	6.474	151	140697	109.85	ug/L	100
16) 1,1-dichloroethene	6.495	61	271369	105.94	ug/L	100
17) acetone	6.558	58	10353	94.74	ug/L	96
18) iodomethane	6.772	142	368355	106.23	ug/L #	100
19) carbon disulfide	6.898	76	676887	106.56	ug/L	100
20) methyl acetate	7.034	74	21385	106.79	ug/L	98
21) allyl chloride	7.039	76	105805	102.07	ug/L	94
22) acetonitrile	7.039	41	410283	1023.75	ug/L	99
23) methylene chloride	7.233	84	204004	102.30	ug/L	98
24) methyl tert butyl ether	7.578	73	496214	100.52	ug/L	100
25) acrylonitrile	7.567	53	220870	533.28	ug/L	99
26) trans-1,2-dichloroethene	7.614	96	202882	95.56	ug/L	99
27) hexane	7.928	57	173149	100.95	ug/L	99
28) di-isopropyl ether	8.190	45	551658	100.58	ug/L	99
29) vinyl acetate	8.195	65	109344	103.28	ug/L	98
30) 1,1-dichloroethane	8.190	63	338869	105.29	ug/L	100
31) chloroprene	8.300	53	252023	105.18	ug/L	99
32) ethyl tert-butyl ether	8.655	59	580185	103.31	ug/L	98
33) 2-butanone	8.912	72	15445	104.63	ug/L #	98
34) ethyl acetate	8.932	45	17112	101.72	ug/L	92
35) 2,2-dichloropropane	8.938	77	292459	100.01	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 09:44:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	223217	101.02 ug/L	98
37) methacrylonitrile	9.189	67	56752	106.10 ug/L	100
38) propionitrile	9.000	54	172134	1089.98 ug/L	96
39) bromochloromethane	9.252	128	101747	106.05 ug/L	97
40) tetrahydrofuran	9.288	42	42368	93.90 ug/L	97
41) chloroform	9.314	83	354514	101.87 ug/L	100
42) tert-Butyl Formate	9.346	59	148640	103.61 ug/L #	100
44) 1,1,1-trichloroethane	9.565	97	314814	104.79 ug/L	99
45) cyclohexane	9.639	84	279638	105.68 ug/L	89
48) 1,1-dichloropropene	9.743	75	263996	105.51 ug/L	98
49) carbon tetrachloride	9.769	117	274265	13.71 ug/L	94
50) isopropyl acetate	9.942	61	57696	107.55 ug/L	99
51) benzene	10.010	78	815101	105.28 ug/L	99
52) 2,2,4-trimethylpentane	10.015	57	637554	104.04 ug/L	99
53) tert-amyl methyl ether	10.052	73	546361	101.98 ug/L	99
54) 1,2-dichloroethane	10.026	62	223687	105.75 ug/L	99
55) heptane	10.193	57	123528	97.36 ug/L	98
56) n-butyl alcohol	10.522	56	178283	5318.13 ug/L	100
57) trichloroethene	10.732	95	211368	107.24 ug/L	99
59) methyl methacrylate	11.009	69	95048	104.23 ug/L	99
60) 1,2-dichloropropane	10.998	63	191021	106.12 ug/L	99
61) methylcyclohexane	10.951	83	305098	104.94 ug/L	98
62) dibromomethane	11.155	93	110599	108.44 ug/L	99
63) bromodichloromethane	11.291	83	258937	106.89 ug/L	97
64) 2-nitropropane	11.506	41	42293	99.61 ug/L	99
65) 2-chloroethyl vinyl ether	11.532	63	223541	517.83 ug/L	100
66) epichlorohydrin	11.652	57	56014	512.29 ug/L	100
67) cis-1,3-dichloropropene	11.746	75	301153	104.60 ug/L	98
68) 4-methyl-2-pentanone	11.846	58	49352	107.82 ug/L	98
69) 3-methyl-1-butanol	11.867	70	65723	2067.65 ug/L	97
70) toluene	12.112	91	851598	105.45 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	256988	103.27 ug/L	98
72) ethyl methacrylate	12.311	69	187629	108.14 ug/L	99
73) 1,1,2-trichloroethane	12.526	83	125035	104.49 ug/L	99
74) 2-hexanone	12.703	58	42039	108.87 ug/L	94
77) tetrachloroethene	12.698	166	229555	106.69 ug/L	96
78) 1,3-dichloropropane	12.709	76	218919	104.32 ug/L	100
79) butyl acetate	12.782	56	74055	100.83 ug/L	95
80) 3,3-Dimethyl-1-Butanol	12.876	57	111858	990.90 ug/L	99
81) dibromochloromethane	12.970	129	194756	109.18 ug/L	99
82) 1,2-dibromoethane	13.122	107	151650	105.61 ug/L	99
83) chlorobenzene	13.587	112	529622	104.46 ug/L	99
84) 1,1,1,2-tetrachloroethane	13.645	131	198507	106.78 ug/L	99
85) ethylbenzene	13.640	91	902163	103.57 ug/L	100
86) m,p-xylene	13.749	106	700363	210.40 ug/L	99
87) o-xylene	14.168	106	346096	106.23 ug/L	100
88) styrene	14.178	104	586311	105.93 ug/L	100
89) bromoform	14.440	173	130784	114.14 ug/L	96
92) isopropylbenzene	14.513	105	901102	103.33 ug/L	99
93) cyclohexanone	14.675	55	32092	968.09 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 09:44:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	183405	100.29 ug/L	97
95) trans-1,4-dichloro-2-b...	14.864	53	43467	102.55 ug/L	98
96) 1,2,3-trichloropropane	14.895	110	40110	103.81 ug/L	97
97) n-propylbenzene	14.926	91	1047030	102.31 ug/L	99
98) bromobenzene	14.911	156	248601	102.34 ug/L	100
99) 2-chlorotoluene	15.078	126	224454	100.85 ug/L	99
100) 4-chlorotoluene	15.177	91	654181	102.47 ug/L	100
101) 1,3,5-trimethylbenzene	15.083	105	785502	101.65 ug/L	99
102) tert-butylbenzene	15.439	119	666261	103.17 ug/L	99
103) pentachloroethane	15.523	167	166943	109.80 ug/L	99
104) 1,2,4-trimethylbenzene	15.491	105	799822	100.62 ug/L	97
105) sec-butylbenzene	15.664	105	1026640	103.57 ug/L	99
106) p-isopropyltoluene	15.789	119	864136	104.77 ug/l	100
107) benzyl chloride	16.067	91	348224	98.61 ug/L	100
108) 1,3-dichlorobenzene	15.857	146	488034	101.61 ug/L	99
109) 1,4-dichlorobenzene	15.946	146	489368	100.27 ug/L	99
110) 1,2-dichlorobenzene	16.359	146	457607	101.96 ug/L	99
111) n-butylbenzene	16.229	92	452159	106.64 ug/L	100
112) hexachloroethane	16.631	119	174636	106.83 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.181	157	39038	101.82 ug/L	98
114) 1,3,5-Trichlorobenzene	17.379	180	396940	102.39 ug/L	100
115) 1,2,4-trichlorobenzene	18.038	180	336323	104.81 ug/L	99
116) hexachlorobutadiene	18.164	225	224167	101.79 ug/L	100
117) naphthalene	18.326	128	584465	102.37 ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	283958	101.32 ug/L	98

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

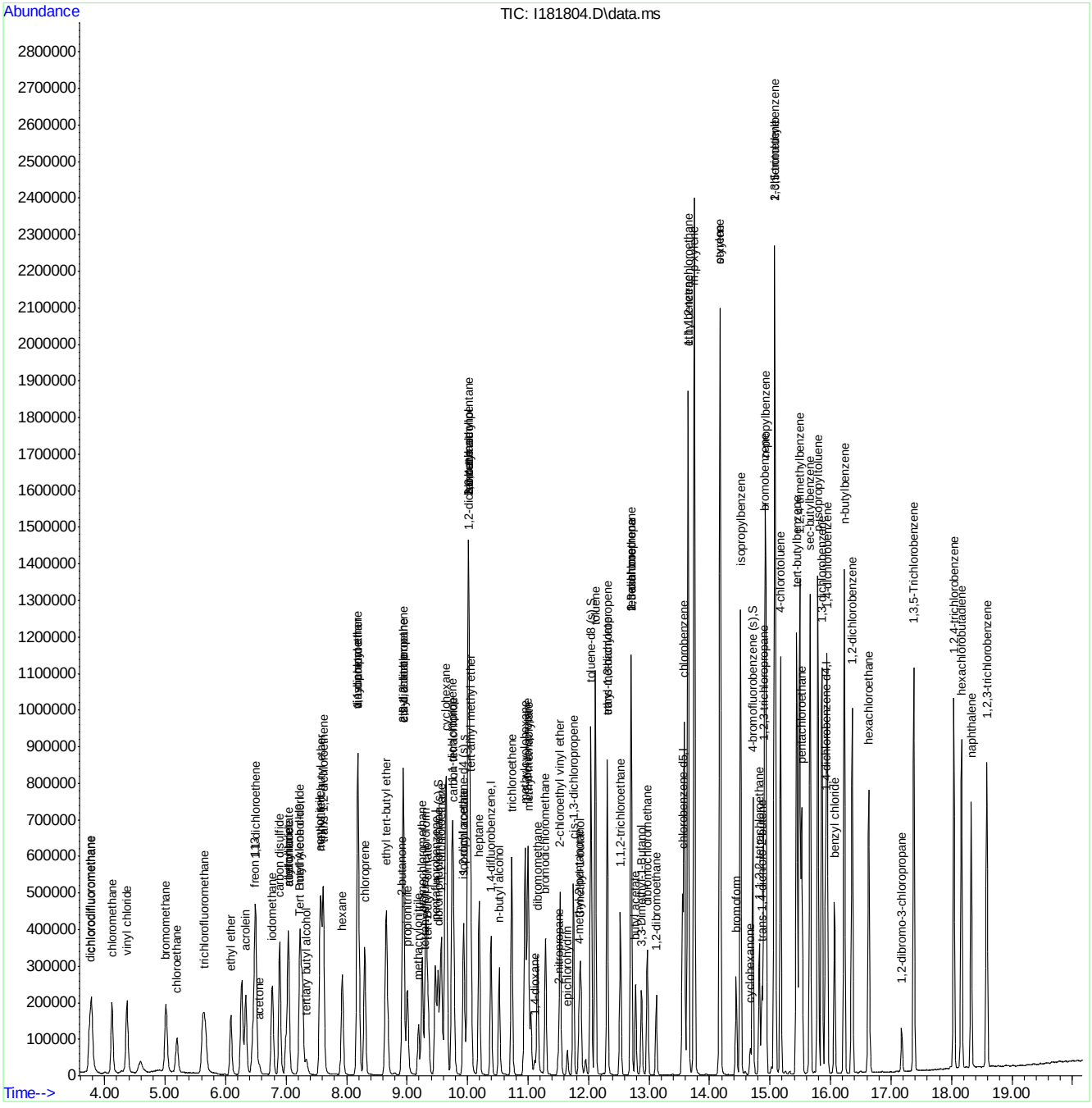
7.7.20

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 09:44:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Manual Integration Approval Summary

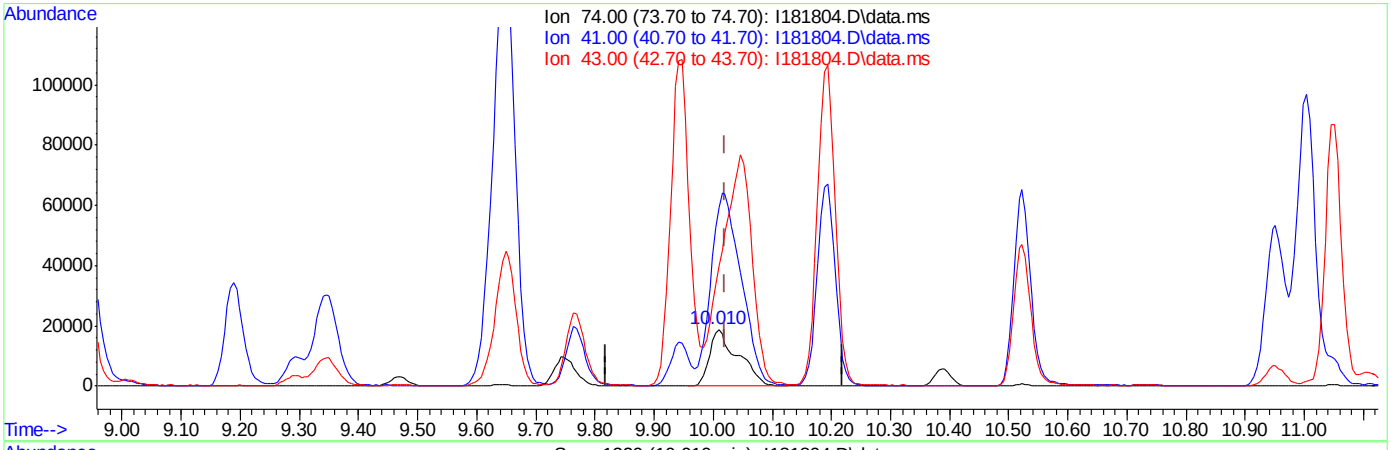
Sample Number:	VI7342-IC7342	**Method:**	SW846 8260B
Lab FileID:	I181804.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 22:11	**Supervisor approved:**	03/13/13 12:26 Kanya Veerawat

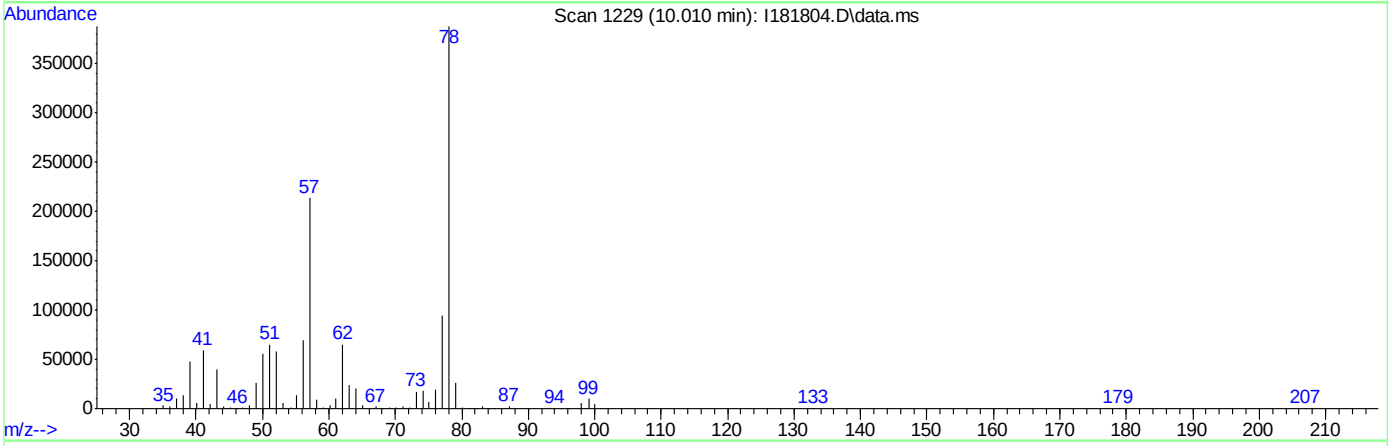
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl alcohol	78-83-1		10.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 22:34:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181804.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.010) 1072.50ug/L

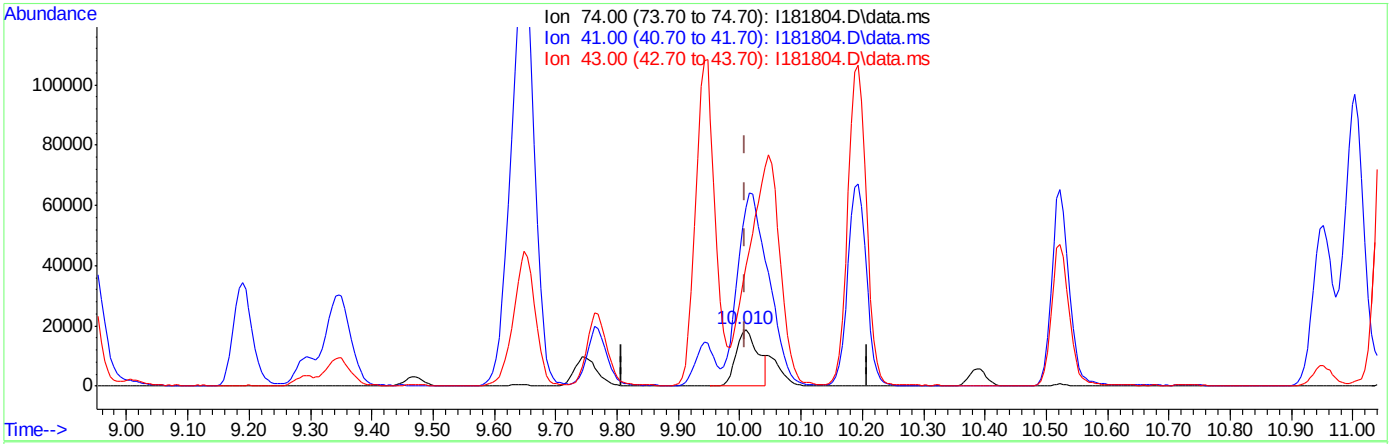
response 62688

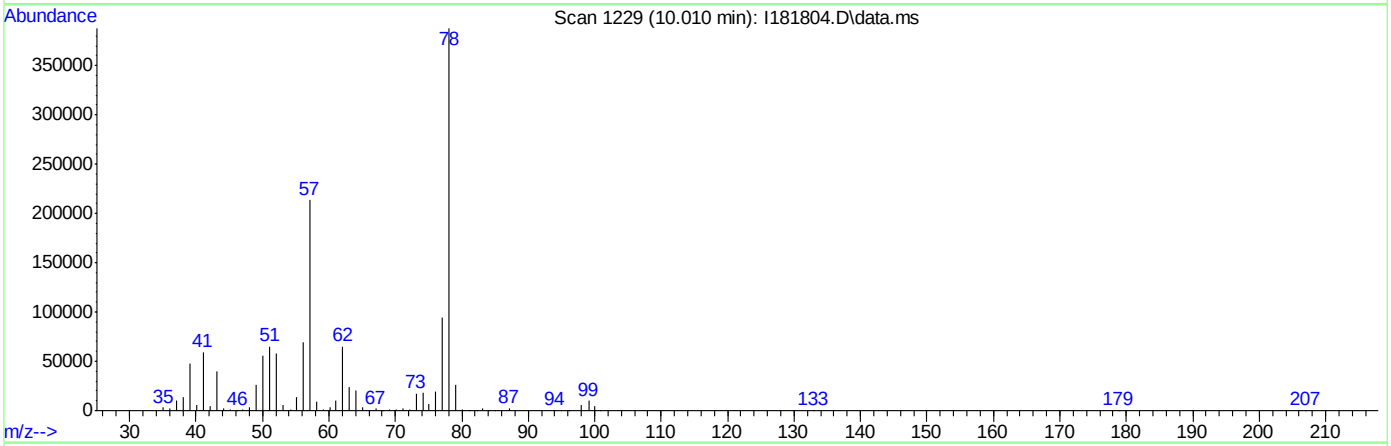
Ion	Exp%	Act%
74.00	100	100
41.00	502.70	358.28#
43.00	577.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181804.D
Acq On : 26 Feb 2013 10:11 pm
Operator : SCOTTM
Sample : IC7342-100
Misc : MS43614,VI7342,,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 09:44:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration





TIC: I181804.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 1050.53ug/L m

response 46708

Ion	Exp%	Act%
74.00	100	100
41.00	498.80	482.68
43.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 03/13/13 12:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 07 09:54:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	79238	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	272778	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	375262	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	291232	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	167171	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	96255	48.12	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.24%			
47) 1,2-dichloroethane-d4...	9.937	65	90225	48.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.34%			
76) toluene-d8 (s)	12.039	98	344069	51.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 102.00%			
91) 4-bromofluorobenzene (s)	14.717	95	120484	49.70	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.40%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.342	59	41571	230.58	ug/L	100
3) iso-butyl alcohol	10.010	74	23228m	464.74	ug/L	
4) 1,4-dioxane	11.108	88	17911	1241.18	ug/L #	100
6) chlorodifluoromethane	3.796	51	106854	47.83	ug/L	100
7) dichlorodifluoromethane	3.770	85	158763	49.30	ug/L	100
8) chloromethane	4.126	50	143787	48.04	ug/L	100
9) vinyl chloride	4.377	62	147298	48.63	ug/L	100
10) bromomethane	5.020	94	91529	46.79	ug/L	100
11) chloroethane	5.198	64	63896	46.45	ug/L	100
12) trichlorofluoromethane	5.648	101	174709	49.89	ug/L	100
13) ethyl ether	6.098	74	45567	48.64	ug/L	100
14) acrolein	6.338	56	126013	481.71	ug/L	100
15) freon 113	6.479	151	73041	53.77	ug/L	100
16) 1,1-dichloroethene	6.500	61	142476	52.45	ug/L	100
17) acetone	6.568	58	5798	50.03	ug/L	100
18) iodomethane	6.778	142	191485	52.07	ug/L #	100
19) carbon disulfide	6.903	76	352493	52.33	ug/L	100
20) methyl acetate	7.044	74	10928	51.46	ug/L	99
21) allyl chloride	7.044	76	54959	49.99	ug/L	100
22) acetonitrile	7.044	41	213711	502.83	ug/L	100
23) methylene chloride	7.238	84	112165	50.16	ug/L	100
24) methyl tert butyl ether	7.583	73	252356	48.20	ug/L	100
25) acrylonitrile	7.573	53	112955	257.16	ug/L	100
26) trans-1,2-dichloroethene	7.620	96	105326	46.78	ug/L	100
27) hexane	7.928	57	95860	51.02	ug/L	100
28) di-isopropyl ether	8.190	45	285913	49.15	ug/L	100
29) vinyl acetate	8.195	65	56150	50.01	ug/L	100
30) 1,1-dichloroethane	8.195	63	173992	50.98	ug/L	100
31) chloroprene	8.305	53	133102	52.38	ug/L	100
32) ethyl tert-butyl ether	8.660	59	300478	50.45	ug/L	100
33) 2-butanone	8.911	72	7880	50.33	ug/L #	100
34) ethyl acetate	8.938	45	8879	49.77	ug/L	100
35) 2,2-dichloropropane	8.943	77	148317	47.82	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 07 09:54:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	112357	47.95 ug/L	100
37) methacrylonitrile	9.194	67	28409	50.08 ug/L	100
38) propionitrile	9.006	54	87588	522.97 ug/L	100
39) bromochloromethane	9.257	128	51932	51.04 ug/L	100
40) tetrahydrofuran	9.299	42	22791	47.63 ug/L	100
41) chloroform	9.314	83	180421	48.88 ug/L	100
42) tert-Butyl Formate	9.351	59	76210	50.09 ug/L #	100
44) 1,1,1-trichloroethane	9.565	97	160176	50.28 ug/L	100
45) cyclohexane	9.638	84	142738	50.87 ug/L	100
48) 1,1-dichloropropene	9.748	75	133926	50.24 ug/L	100
49) carbon tetrachloride	9.769	117	139518	6.55 ug/L	94
50) isopropyl acetate	9.942	61	28944	50.64 ug/L	100
51) benzene	10.010	78	412120	49.96 ug/L	100
52) 2,2,4-trimethylpentane	10.015	57	332941	50.99 ug/L	100
53) tert-amyl methyl ether	10.052	73	279891	49.03 ug/L	100
54) 1,2-dichloroethane	10.026	62	112891	50.09 ug/L	100
55) heptane	10.193	57	63528	47.00 ug/L	100
56) n-butyl alcohol	10.522	56	94618	2649.06 ug/L	100
57) trichloroethene	10.732	95	106458	50.70 ug/L	100
59) methyl methacrylate	11.009	69	46232	47.58 ug/L	100
60) 1,2-dichloropropane	10.998	63	96417	50.28 ug/L	100
61) methylcyclohexane	10.951	83	158706	51.24 ug/L	100
62) dibromomethane	11.155	93	55716	51.27 ug/L	100
63) bromodichloromethane	11.291	83	130111	50.41 ug/L	100
64) 2-nitropropane	11.511	41	21445	47.40 ug/L	97
65) 2-chloroethyl vinyl ether	11.532	63	116853	254.06 ug/L	100
66) epichlorohydrin	11.652	57	28720	246.53 ug/L	100
67) cis-1,3-dichloropropene	11.752	75	151625	49.43 ug/L	100
68) 4-methyl-2-pentanone	11.846	58	24746	50.74 ug/L	100
69) 3-methyl-1-butanol	11.872	70	33607	995.58 ug/L	100
70) toluene	12.112	91	429482	49.92 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	128165	48.34 ug/L	100
72) ethyl methacrylate	12.311	69	92721	50.16 ug/L	100
73) 1,1,2-trichloroethane	12.526	83	62688	49.17 ug/L	100
74) 2-hexanone	12.703	58	21215	51.57 ug/L	100
77) tetrachloroethene	12.703	166	115380	50.94 ug/L	100
78) 1,3-dichloropropane	12.709	76	108870	49.28 ug/L	100
79) butyl acetate	12.782	56	36831	47.63 ug/L	100
80) 3,3-Dimethyl-1-Butanol	12.876	57	58051	488.47 ug/L	99
81) dibromochloromethane	12.975	129	96361	51.31 ug/L	100
82) 1,2-dibromoethane	13.122	107	76649	50.70 ug/L	100
83) chlorobenzene	13.587	112	267700	50.15 ug/L	100
84) 1,1,1,2-tetrachloroethane	13.645	131	99577	50.88 ug/L	100
85) ethylbenzene	13.645	91	454804	49.59 ug/L	100
86) m,p-xylene	13.749	106	353789	100.96 ug/L	100
87) o-xylene	14.168	106	173765	50.66 ug/L	100
88) styrene	14.178	104	292678	50.23 ug/L	100
89) bromoform	14.440	173	64380	53.37 ug/L	100
92) isopropylbenzene	14.513	105	453396	49.71 ug/L	100
93) cyclohexanone	14.675	55	17264	497.94 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 07 09:54:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration

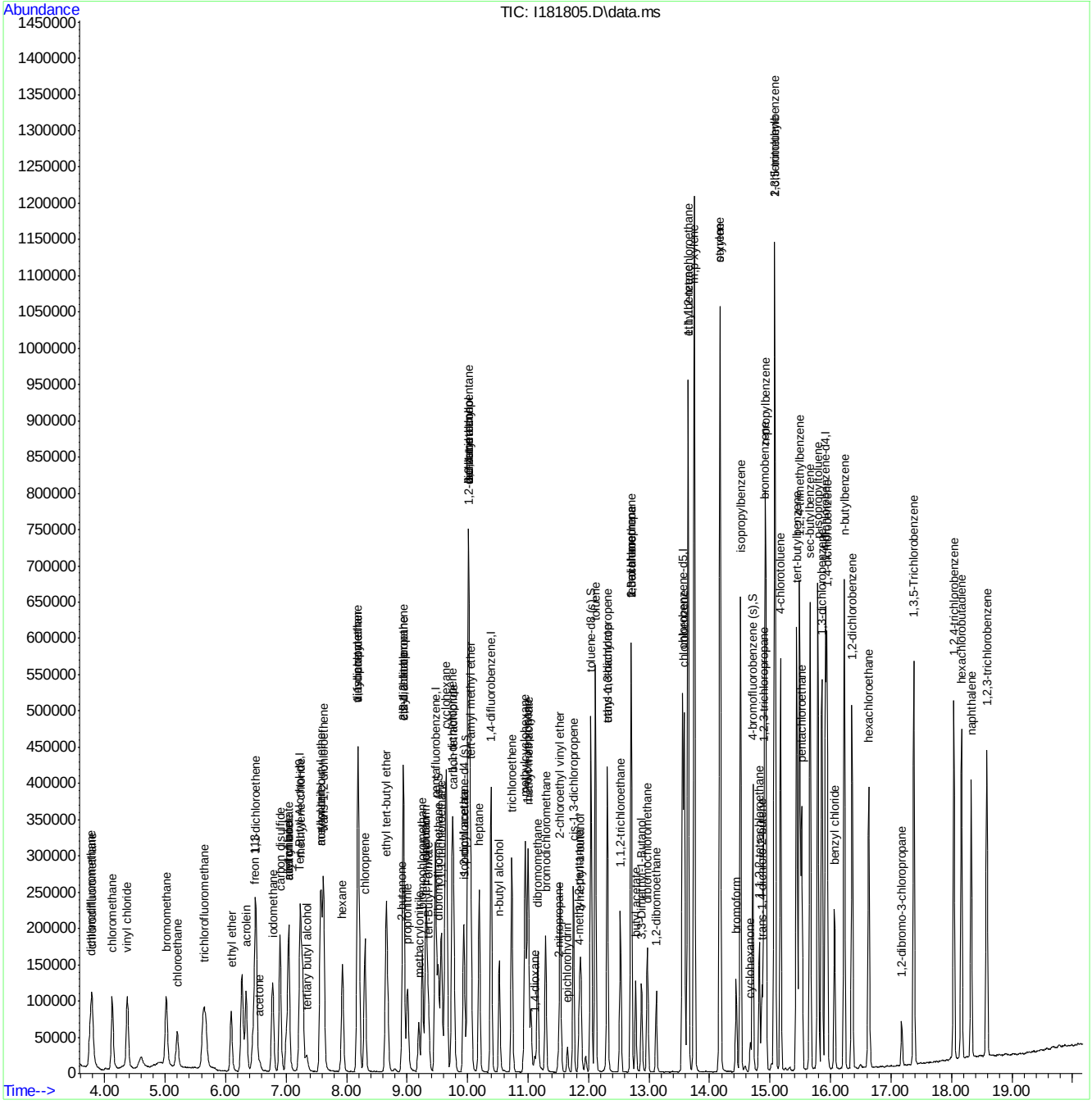
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	93083	48.67	ug/L	100
95) trans-1,4-dichloro-2-b...	14.863	53	21542	48.59	ug/L	100
96) 1,2,3-trichloropropane	14.895	110	20428	50.55	ug/L	100
97) n-propylbenzene	14.926	91	526872	49.22	ug/L	100
98) bromobenzene	14.911	156	124273	48.91	ug/L	100
99) 2-chlorotoluene	15.078	126	114063	49.00	ug/L	100
100) 4-chlorotoluene	15.177	91	328147	49.14	ug/L	100
101) 1,3,5-trimethylbenzene	15.083	105	391435	48.43	ug/L	100
102) tert-butylbenzene	15.439	119	330817	48.98	ug/L	100
103) pentachloroethane	15.523	167	81726	51.39	ug/L	100
104) 1,2,4-trimethylbenzene	15.491	105	392093	47.16	ug/L	100
105) sec-butylbenzene	15.664	105	512382	49.42	ug/L	100
106) p-isopropyltoluene	15.789	119	426895	49.49	ug/l	100
107) benzyl chloride	16.066	91	167349	45.31	ug/L	100
108) 1,3-dichlorobenzene	15.857	146	240831	47.94	ug/L	100
109) 1,4-dichlorobenzene	15.946	146	242692	47.54	ug/L	100
110) 1,2-dichlorobenzene	16.359	146	226900	48.34	ug/L	100
111) n-butylbenzene	16.229	92	224000	50.51	ug/L	100
112) hexachloroethane	16.637	119	85985	50.29	ug/L	100
113) 1,2-dibromo-3-chloropr...	17.180	157	19709	49.15	ug/L	100
114) 1,3,5-Trichlorobenzene	17.379	180	199419	49.18	ug/L	100
115) 1,2,4-trichlorobenzene	18.043	180	170545	50.81	ug/L	100
116) hexachlorobutadiene	18.164	225	111747	48.52	ug/L	100
117) naphthalene	18.326	128	303660	50.85	ug/L	100
118) 1,2,3-trichlorobenzene	18.582	180	147867	50.45	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 07 09:54:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration



Manual Integration Approval Summary

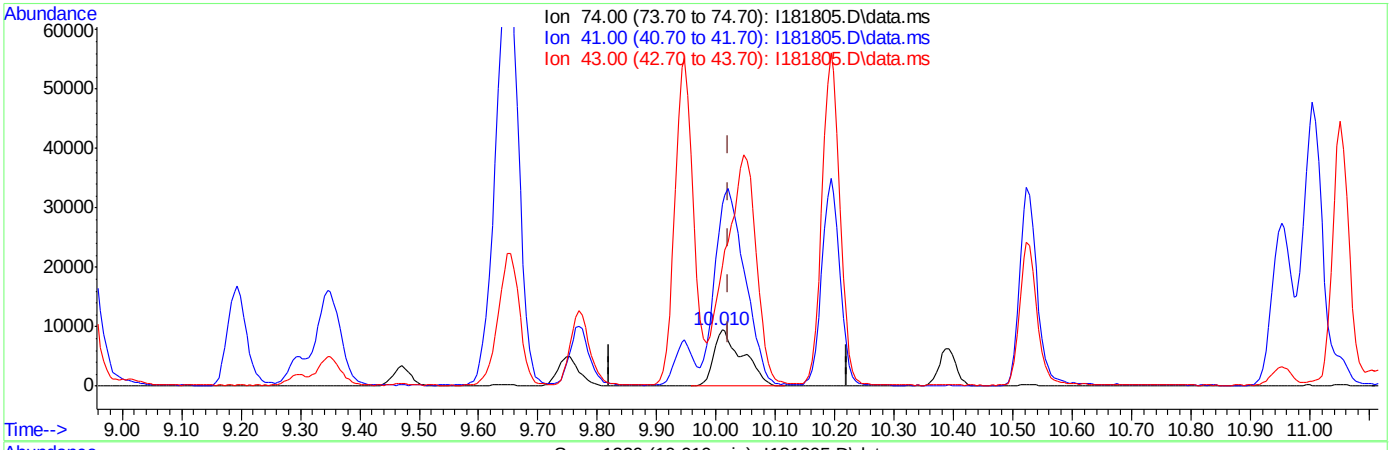
Sample Number:	VI7342-ICC7342	**Method:**	SW846 8260B
Lab FileID:	I181805.D	**Analyst approved:**	02/27/13 13:46 Scott McGonigal
Injection Time:	02/26/13 23:08	**Supervisor approved:**	03/13/13 12:26 Kanya Veerawat

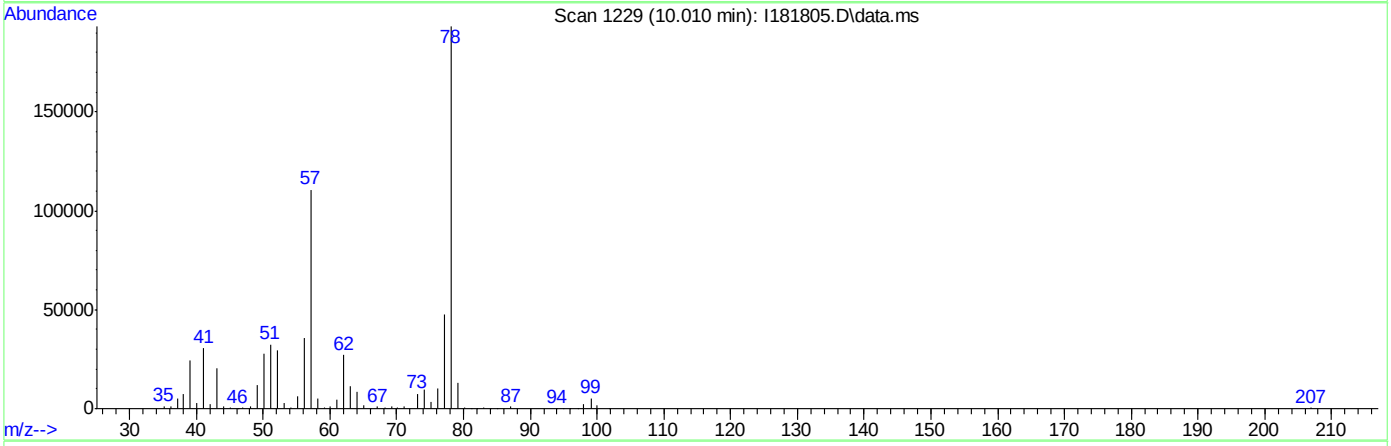
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl alcohol	78-83-1		10.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\RAW7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 23:32:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Feb 26 12:01:53 2013
Response via : Initial Calibration





TIC: I181805.D\data.ms

(3) iso-butyl alcohol

10.010min (-0.011) 489.73ug/L

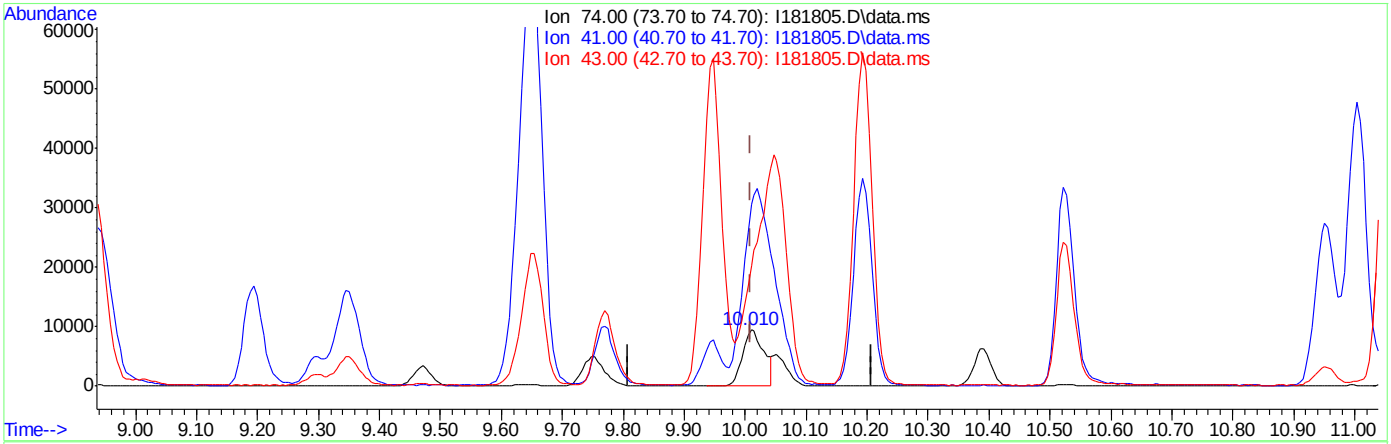
response 32178

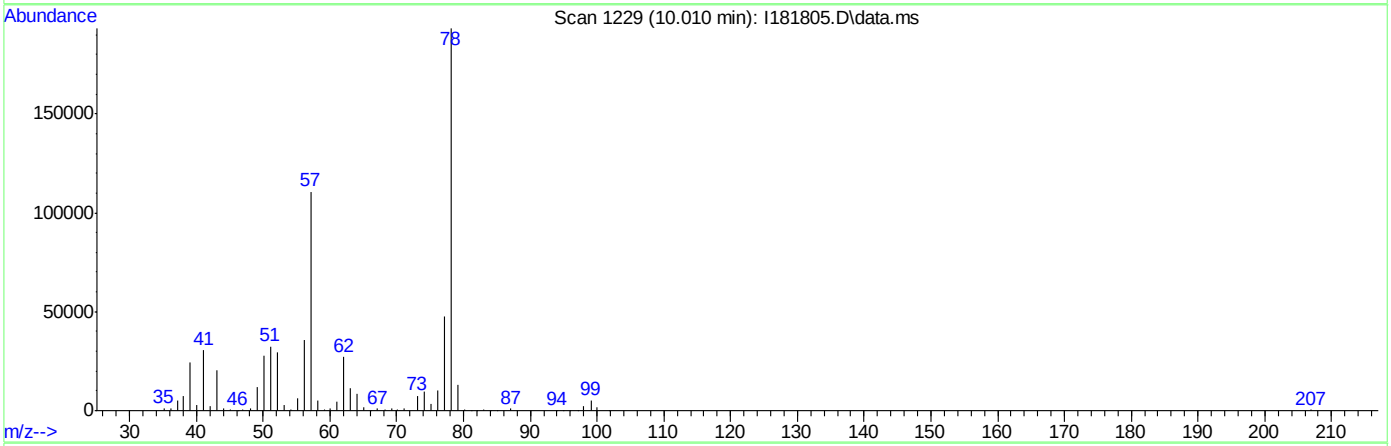
Ion	Exp%	Act%
74.00	100	100
41.00	502.70	360.04#
43.00	577.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181805.D
Acq On : 26 Feb 2013 11:08 pm
Operator : SCOTTM
Sample : ICC7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 07 09:54:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:29:29 2013
Response via : Initial Calibration





TIC: I181805.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 464.74ug/L m

response 23228

Ion	Exp%	Act%
74.00	100	100
41.00	498.80	500.12
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 11:06:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	74725	50.00	ug/L	0.00
5) pentafluorobenzene	9.471	168	261108	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	360087	50.00	ug/L	0.00
75) chlorobenzene-d5	13.556	117	281396	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.920	152	161863	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.513	113	92784	48.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.60%			
47) 1,2-dichloroethane-d4...	9.937	65	89792	49.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.14%			
76) toluene-d8 (s)	12.039	98	316729	48.02	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 96.04%			
91) 4-bromofluorobenzene (s)	14.717	95	115395	48.60	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.20%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.342	59	42654	250.88	ug/L	98
3) iso-butyl alcohol	10.010	74	19866m	421.48	ug/L	
4) 1,4-dioxane	11.113	88	18202	1337.53	ug/L	98
6) chlorodifluoromethane	3.791	51	110272	51.56	ug/L	99
7) dichlorodifluoromethane	3.765	85	134717	43.70	ug/L	100
8) chloromethane	4.126	50	126774	44.25	ug/L	99
9) vinyl chloride	4.372	62	126388	43.59	ug/L	99
10) bromomethane	5.020	94	85437	45.63	ug/L	97
11) chloroethane	5.198	64	55267	41.97	ug/L	99
12) trichlorofluoromethane	5.648	101	149281	44.54	ug/L	98
13) ethyl ether	6.092	74	44513	49.64	ug/L	94
14) acrolein	6.338	56	120372	480.71	ug/L	99
15) freon 113	6.479	151	60515	46.54	ug/L	99
16) 1,1-dichloroethene	6.500	61	122284	47.03	ug/L	98
17) acetone	6.568	58	5799	52.27	ug/L	88
18) iodomethane	6.778	142	173218	49.21	ug/L #	100
19) carbon disulfide	6.903	76	301087	46.69	ug/L	99
20) methyl acetate	7.039	74	10751	52.89	ug/L	98
21) allyl chloride	7.044	76	49991	47.51	ug/L	94
22) acetonitrile	7.039	41	200433	492.66	ug/L	95
23) methylene chloride	7.238	84	106417	49.66	ug/L	99
24) methyl tert butyl ether	7.583	73	489852	97.75	ug/L	99
25) acrylonitrile	7.573	53	114537	272.42	ug/L	98
26) trans-1,2-dichloroethene	7.620	96	94794	43.98	ug/L	97
27) hexane	7.933	57	101527	56.82	ug/L	100
28) di-isopropyl ether	8.190	45	281474	50.55	ug/L	95
29) vinyl acetate	8.195	65	51601	48.01	ug/L #	88
30) 1,1-dichloroethane	8.195	63	159586	48.85	ug/L	100
31) chloroprene	8.305	53	122851	50.51	ug/L	100
32) ethyl tert-butyl ether	8.660	59	286100	50.18	ug/L	98
33) 2-butanone	8.912	72	7971	53.19	ug/L #	99
34) ethyl acetate	8.938	45	8963	52.48	ug/L	87
35) 2,2-dichloropropane	8.938	77	129530	43.63	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 11:06:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	106493	47.47 ug/L	98
37) methacrylonitrile	9.194	67	28034	51.63 ug/L	99
38) propionitrile	9.006	54	88986	555.06 ug/L	99
39) bromochloromethane	9.251	128	49856	51.19 ug/L	92
40) tetrahydrofuran	9.293	42	22603	49.35 ug/L	99
41) chloroform	9.314	83	169103	47.87 ug/L	99
42) tert-Butyl Formate	9.346	59	77826	53.44 ug/L #	100
44) 1,1,1-trichloroethane	9.565	97	141581	46.43 ug/L	98
45) cyclohexane	9.639	84	120727	44.95 ug/L	95
48) 1,1-dichloropropene	9.748	75	117617	45.98 ug/L	99
49) carbon tetrachloride	9.769	117	121618	46.82 ug/L	93
50) isopropyl acetate	9.947	61	29691	54.14 ug/L #	67
51) benzene	10.010	78	381537	48.20 ug/L	99
52) 2,2,4-trimethylpentane	10.015	57	292849	46.74 ug/L	99
53) tert-amyl methyl ether	10.052	73	271319	49.53 ug/L	98
54) 1,2-dichloroethane	10.026	62	110508	51.10 ug/L	99
55) heptane	10.193	57	60428	46.59 ug/L	99
56) n-butyl alcohol	10.522	56	98352	2869.65 ug/L	99
57) trichloroethene	10.732	95	96901	48.09 ug/L	99
59) methyl methacrylate	11.009	69	47970	51.45 ug/L	100
60) 1,2-dichloropropane	10.998	63	91978	49.98 ug/L	99
61) methylcyclohexane	10.951	83	143872	48.40 ug/L	99
62) dibromomethane	11.155	93	54848	52.60 ug/L	98
63) bromodichloromethane	11.291	83	125861	50.82 ug/L	98
64) 2-nitropropane	11.506	41	21808	50.24 ug/L #	89
65) 2-chloroethyl vinyl ether	11.532	63	124343	281.74 ug/L	100
66) epichlorohydrin	11.652	57	30585	273.60 ug/L	99
67) cis-1,3-dichloropropene	11.746	75	144862	49.22 ug/L	98
68) 4-methyl-2-pentanone	11.851	58	24970	53.36 ug/L	100
69) 3-methyl-1-butanol	11.872	70	33712	1065.18 ug/L	98
70) toluene	12.112	91	394430	47.77 ug/L	100
71) trans-1,3-dichloropropene	12.311	75	124244	48.84 ug/L	98
72) ethyl methacrylate	12.311	69	92058	51.90 ug/L	99
73) 1,1,2-trichloroethane	12.526	83	61453	50.23 ug/L	100
74) 2-hexanone	12.703	58	21418	54.26 ug/L	96
77) tetrachloroethene	12.698	166	102975	47.05 ug/L	98
78) 1,3-dichloropropane	12.709	76	107005	50.13 ug/L	99
79) butyl acetate	12.782	56	37248	49.86 ug/L	97
80) 3,3-Dimethyl-1-Butanol	12.876	57	60435	526.30 ug/L	100
81) dibromochloromethane	12.975	129	94681	52.18 ug/L	99
82) 1,2-dibromoethane	13.122	107	75412	51.63 ug/L	100
83) chlorobenzene	13.587	112	251909	48.84 ug/L	99
84) 1,1,1,2-tetrachloroethane	13.645	131	95001	50.24 ug/L	99
85) ethylbenzene	13.645	91	413280	46.64 ug/L	99
86) m,p-xylene	13.749	106	322955	95.38 ug/L	99
87) o-xylene	14.168	106	161616	48.77 ug/L	99
88) styrene	14.178	104	275897	49.00 ug/L	99
89) bromoform	14.440	173	63017	54.07 ug/L	96
92) isopropylbenzene	14.513	105	408257	46.23 ug/L	98
93) cyclohexanone	14.675	55	17282	514.80 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 11:06:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	91569	49.45	ug/L	97
95) trans-1,4-dichloro-2-b...	14.864	53	21330	49.69	ug/L	96
96) 1,2,3-trichloropropane	14.895	110	20102	51.37	ug/L	98
97) n-propylbenzene	14.926	91	472448	45.59	ug/L	99
98) bromobenzene	14.911	156	118472	48.16	ug/L	100
99) 2-chlorotoluene	15.073	126	104556	46.39	ug/L	99
100) 4-chlorotoluene	15.177	91	302038	46.72	ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	355437	45.42	ug/L	100
102) tert-butylbenzene	15.439	119	300325	45.92	ug/L	99
103) pentachloroethane	15.523	167	78894	51.24	ug/L	98
104) 1,2,4-trimethylbenzene	15.486	105	367011	45.59	ug/L	98
105) sec-butylbenzene	15.664	105	458054	45.63	ug/L	99
106) p-isopropyltoluene	15.789	119	385694	46.18	ug/l	100
107) benzyl chloride	16.066	91	165950	46.41	ug/L	100
108) 1,3-dichlorobenzene	15.857	146	224015	46.06	ug/L	100
109) 1,4-dichlorobenzene	15.946	146	228813	46.30	ug/L	98
110) 1,2-dichlorobenzene	16.359	146	218359	48.05	ug/L	99
111) n-butylbenzene	16.229	92	198246	46.17	ug/L	100
112) hexachloroethane	16.631	119	78626	47.50	ug/L	100
113) 1,2-dibromo-3-chloropr...	17.181	157	19910	51.28	ug/L	98
114) 1,3,5-Trichlorobenzene	17.379	180	182343	46.45	ug/L	99
115) 1,2,4-trichlorobenzene	18.038	180	159992	49.23	ug/L	99
116) hexachlorobutadiene	18.164	225	102598	46.00	ug/L	98
117) naphthalene	18.326	128	298525	51.63	ug/L	99
118) 1,2,3-trichlorobenzene	18.582	180	143161	50.44	ug/L	99

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

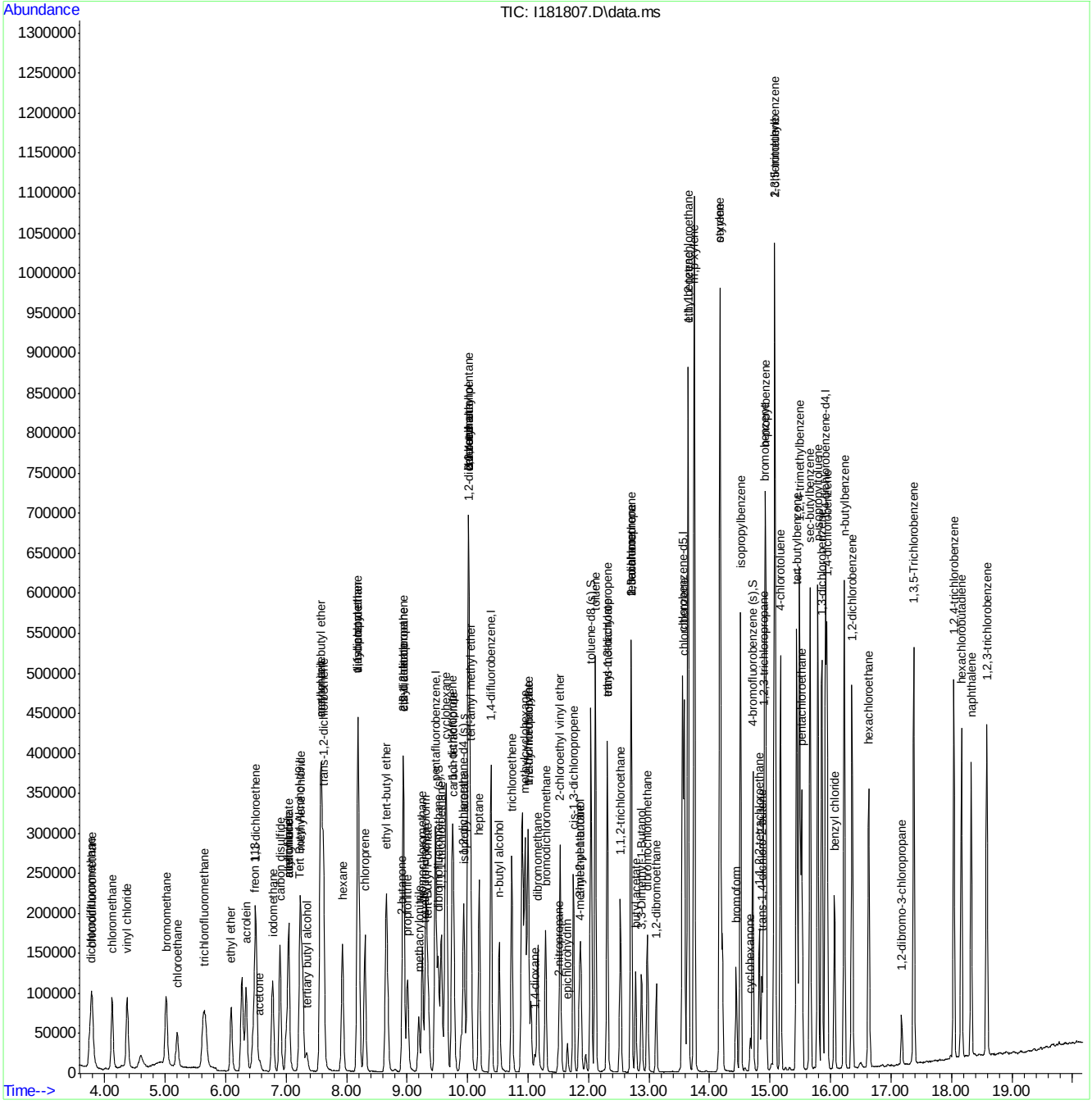
7.7.22

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 11:06:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration

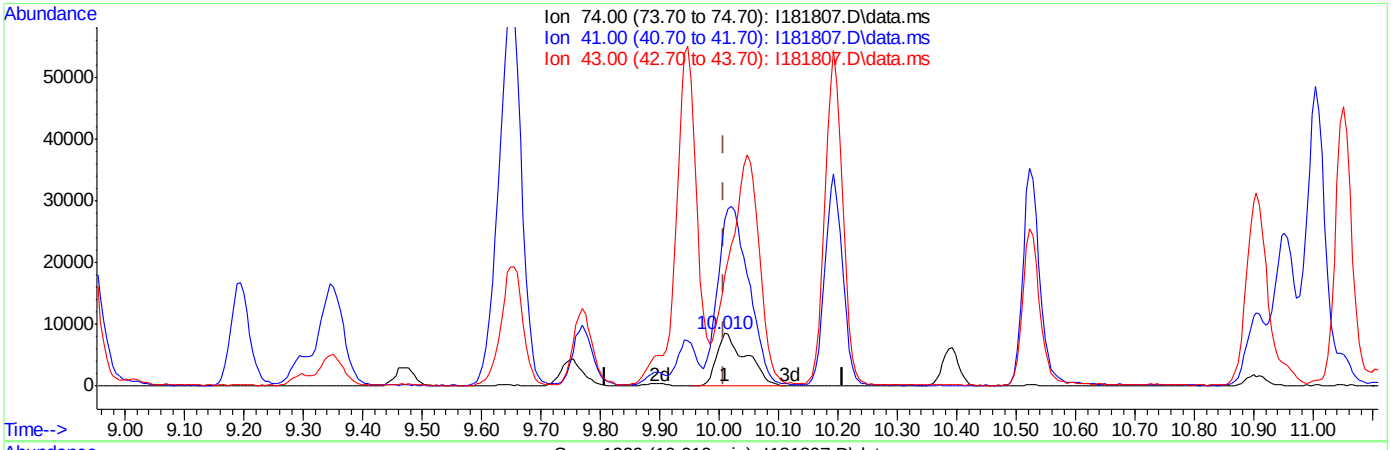


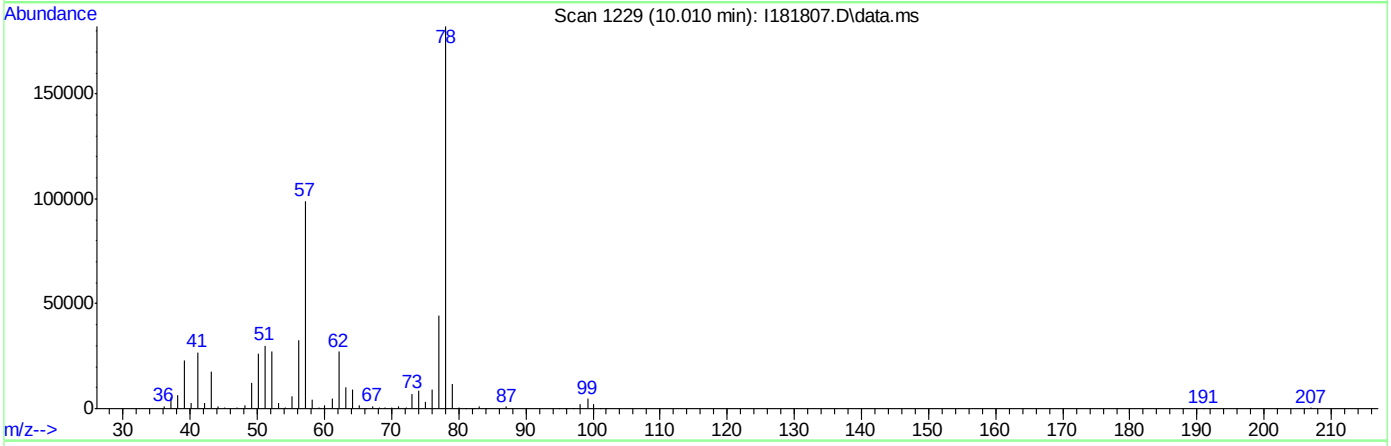
ACCUTEST LABORATORIES JB29314

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 27 12:32:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 27 11:31:01 2013
Response via : Initial Calibration





TIC: I181807.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 634.85ug/L

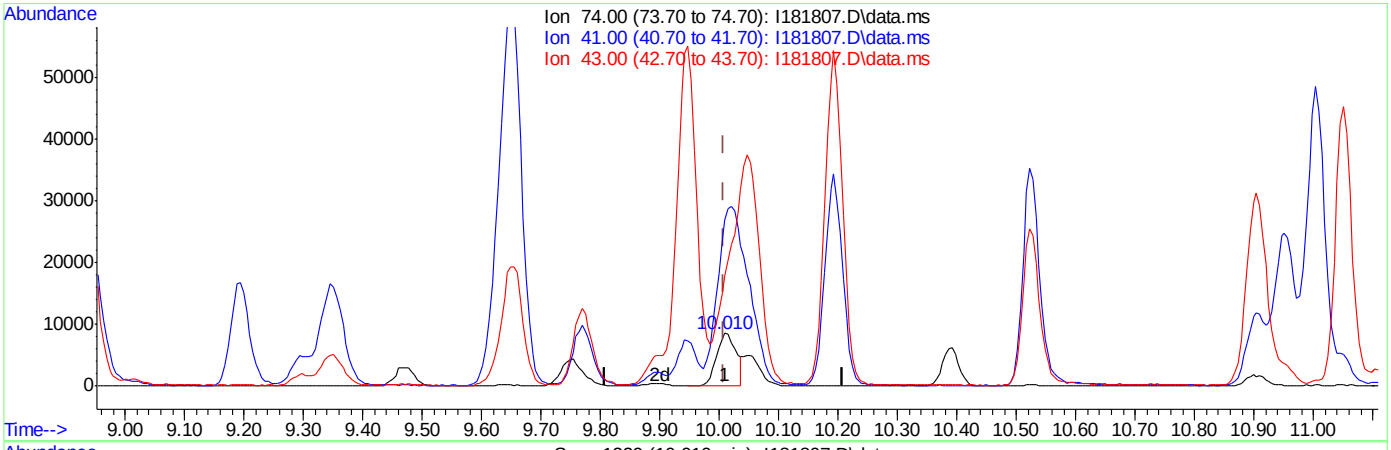
response 29923

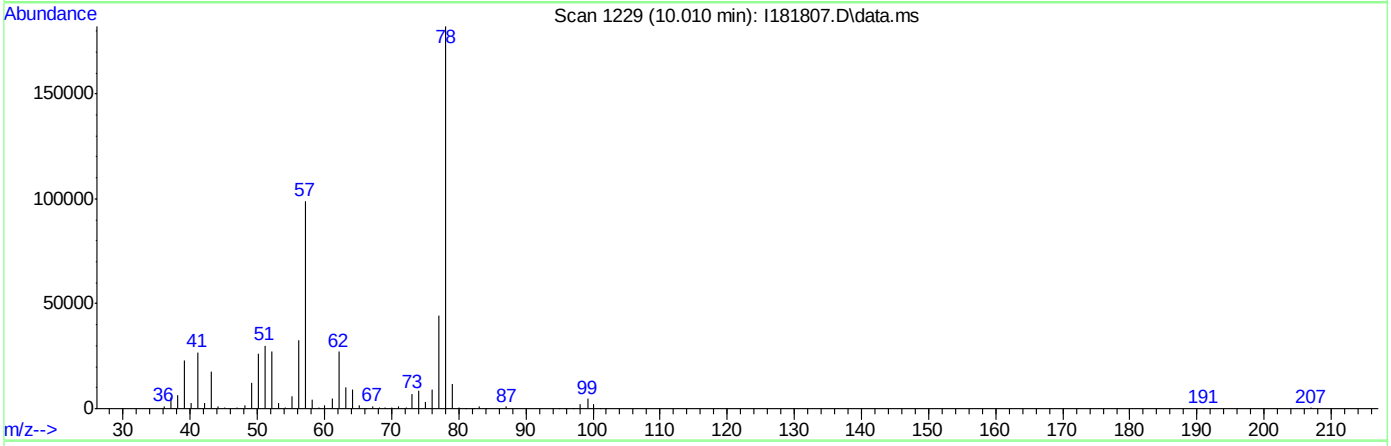
Ion	Exp%	Act%
74.00	100	100
41.00	498.80	350.88#
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7342\
Data File : I181807.D
Acq On : 27 Feb 2013 12:36 am
Operator : SCOTTM
Sample : ICV7342-50
Misc : MS43614,VI7342,,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 11:06:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Mar 13 10:49:27 2013
Response via : Initial Calibration





TIC: I181807.D\data.ms

(3) iso-butyl alcohol

10.010min (+0.001) 421.48ug/L m

response 19866

Ion	Exp%	Act%
74.00	100	100
41.00	498.80	528.51#
43.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182034.D
Acq On : 6 Mar 2013 10:31 am
Operator : SCOTTM
Sample : CC7342-50
Misc : MS44166,VI7353,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 10:55:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	68316	50.00	ug/L	-0.02
5) pentafluorobenzene	9.466	168	226109	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.387	114	314047	50.00	ug/L	0.00
75) chlorobenzene-d5	13.551	117	260975	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.915	152	153646	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.508	113	86211	51.83	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.66%			
47) 1,2-dichloroethane-d4...	9.926	65	78428	49.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.28%			
76) toluene-d8 (s)	12.039	98	324175	52.99	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.98%			
91) 4-bromofluorobenzene (s)	14.712	95	116438	51.67	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.34%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.327	59	36080	232.12	ug/L	98
3) iso-butyl alcohol	10.005	74	27997	649.71	ug/L #	55
4) 1,4-dioxane	11.108	88	16118	1295.50	ug/L #	98
6) chlorodifluoromethane	3.786	51	92800	50.11	ug/L	99
7) dichlorodifluoromethane	3.765	85	132640	49.68	ug/L	98
8) chloromethane	4.116	50	124048	50.00	ug/L	99
9) vinyl chloride	4.367	62	129036	51.39	ug/L	99
10) bromomethane	5.010	94	82976	51.18	ug/L	96
11) chloroethane	5.193	64	55501	48.67	ug/L	98
12) trichlorofluoromethane	5.632	101	155218	53.48	ug/L	99
13) ethyl ether	6.082	74	39510	50.88	ug/L	95
14) acrolein	6.328	56	107891	497.56	ug/L	98
15) freon 113	6.474	151	67411	59.87	ug/L	99
16) 1,1-dichloroethene	6.490	61	126570	56.21	ug/L	98
17) acetone	6.553	58	4439	46.21	ug/L	89
18) iodomethane	6.767	142	165609	54.33	ug/L #	100
19) carbon disulfide	6.893	76	306820	54.95	ug/L	100
20) methyl acetate	7.029	74	9338	53.04	ug/L	96
21) allyl chloride	7.034	76	48160	52.85	ug/L	96
22) acetonitrile	7.034	41	186881	530.45	ug/L	99
23) methylene chloride	7.228	84	92839	50.08	ug/L	99
24) methyl tert butyl ether	7.573	73	222390	51.25	ug/L	99
25) acrylonitrile	7.562	53	97442	267.63	ug/L	100
26) trans-1,2-dichloroethene	7.609	96	91708	49.14	ug/L	97
27) hexane	7.923	57	80332	51.62	ug/L	98
28) di-isopropyl ether	8.185	45	250640	51.98	ug/L	96
29) vinyl acetate	8.185	65	48432	52.04	ug/L	97
30) 1,1-dichloroethane	8.185	63	150036	53.03	ug/L	100
31) chloroprene	8.295	53	114789	54.50	ug/L	99
32) ethyl tert-butyl ether	8.655	59	265903	53.86	ug/L	99
33) 2-butanone	8.906	72	6831	52.64	ug/L #	93
34) ethyl acetate	8.927	45	7632	51.61	ug/L	98
35) 2,2-dichloropropane	8.933	77	138684	53.95	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182034.D
Acq On : 6 Mar 2013 10:31 am
Operator : SCOTTM
Sample : CC7342-50
Misc : MS44166,VI7353,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 10:55:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.933	96	98162	50.53	ug/L		99
37) methacrylonitrile	9.184	67	24062	51.17	ug/L		99
38) propionitrile	8.995	54	75211	541.76	ug/L		91
39) bromochloromethane	9.246	128	44566	52.84	ug/L		94
40) tetrahydrofuran	9.288	42	19177	48.35	ug/L		99
41) chloroform	9.309	83	156613	51.19	ug/L		100
42) tert-Butyl Formate	9.341	59	66649	52.85	ug/L	#	100
44) 1,1,1-trichloroethane	9.560	97	144429	54.69	ug/L		99
45) cyclohexane	9.633	84	128284	55.15	ug/L		92
48) 1,1-dichloropropene	9.743	75	117372	52.61	ug/L		98
49) carbon tetrachloride	9.764	117	127356	56.22	ug/L		93
50) isopropyl acetate	9.937	61	25542	53.40	ug/L		98
51) benzene	10.005	78	356376	51.62	ug/L		99
52) 2,2,4-trimethylpentane	10.010	57	295909	54.15	ug/L		99
53) tert-amyl methyl ether	10.047	73	247740	51.86	ug/L		100
54) 1,2-dichloroethane	10.021	62	99393	52.70	ug/L		99
55) heptane	10.188	57	56904	50.30	ug/L		99
56) n-butyl alcohol	10.517	56	79993	2676.15	ug/L		100
57) trichloroethene	10.727	95	93327	53.10	ug/L		99
59) methyl methacrylate	11.004	69	41002	50.42	ug/L		96
60) 1,2-dichloropropane	10.993	63	82899	51.65	ug/L		97
61) methylcyclohexane	10.946	83	143030	55.18	ug/L		99
62) dibromomethane	11.150	93	47834	52.60	ug/L		98
63) bromodichloromethane	11.286	83	112325	52.00	ug/L		99
64) 2-nitropropane	11.506	41	20624	54.47	ug/L	#	1
65) 2-chloroethyl vinyl ether	11.532	63	121936	316.79	ug/L		99
66) epichlorohydrin	11.647	57	25773	264.36	ug/L		99
67) cis-1,3-dichloropropene	11.746	75	133651	52.06	ug/L		98
68) 4-methyl-2-pentanone	11.846	58	21368	52.36	ug/L		97
69) 3-methyl-1-butanol	11.867	70	29367	1039.28	ug/L		97
70) toluene	12.113	91	381129	52.93	ug/L		100
71) trans-1,3-dichloropropene	12.311	75	115366	52.00	ug/L		98
72) ethyl methacrylate	12.311	69	78826	50.95	ug/L		99
73) 1,1,2-trichloroethane	12.526	83	55797	52.30	ug/L		99
74) 2-hexanone	12.704	58	18571	53.94	ug/L		92
77) tetrachloroethene	12.698	166	104131	51.30	ug/L		97
78) 1,3-dichloropropane	12.704	76	97400	49.20	ug/L		99
79) butyl acetate	12.777	56	33977	49.04	ug/L		96
80) 3,3-Dimethyl-1-Butanol	12.871	57	48528	455.68	ug/L		99
81) dibromochloromethane	12.970	129	85370	50.73	ug/L		100
82) 1,2-dibromoethane	13.117	107	67567	49.88	ug/L		100
83) chlorobenzene	13.582	112	238217	49.80	ug/L		98
84) 1,1,1,2-tetrachloroethane	13.645	131	87135	49.68	ug/L		99
85) ethylbenzene	13.640	91	409748	49.86	ug/L		100
86) m,p-xylene	13.750	106	317786	101.20	ug/L		99
87) o-xylene	14.168	106	153445	49.92	ug/L		100
88) styrene	14.179	104	258476	49.50	ug/L		98
89) bromoform	14.440	173	56963	52.70	ug/L		95
92) isopropylbenzene	14.513	105	405442	48.36	ug/L		100
93) cyclohexanone	14.670	55	20493	643.10	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182034.D
Acq On : 6 Mar 2013 10:31 am
Operator : SCOTTM
Sample : CC7342-50
Misc : MS44166,VI7353,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 10:55:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,1,2,2-tetrachloroethane	14.822	83	81640	46.44 ug/L	97
95) trans-1,4-dichloro-2-b...	14.864	53	20161	49.48 ug/L	98
96) 1,2,3-trichloropropane	14.895	110	18528	49.88 ug/L	96
97) n-propylbenzene	14.926	91	477781	48.57 ug/L	100
98) bromobenzene	14.911	156	112545	48.20 ug/L	99
99) 2-chlorotoluene	15.073	126	101158	47.28 ug/L	99
100) 4-chlorotoluene	15.172	91	298041	48.56 ug/L	99
101) 1,3,5-trimethylbenzene	15.083	105	350875	47.24 ug/L	99
102) tert-butylbenzene	15.439	119	295643	47.62 ug/L	99
103) pentachloroethane	15.523	167	71916	49.20 ug/L	99
104) 1,2,4-trimethylbenzene	15.486	105	357606	46.80 ug/L	98
105) sec-butylbenzene	15.664	105	461550	48.44 ug/L	100
106) p-isopropyltoluene	15.789	119	386976	48.81 ug/l	100
107) benzyl chloride	16.067	91	175688	51.76 ug/L	99
108) 1,3-dichlorobenzene	15.857	146	216883	46.97 ug/L	99
109) 1,4-dichlorobenzene	15.941	146	220200	46.94 ug/L	99
110) 1,2-dichlorobenzene	16.354	146	202818	47.01 ug/L	99
111) n-butylbenzene	16.224	92	202492	49.68 ug/L	99
112) hexachloroethane	16.632	119	75991	48.36 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.175	157	16709	45.34 ug/L	97
114) 1,3,5-Trichlorobenzene	17.374	180	176203	47.28 ug/L	100
115) 1,2,4-trichlorobenzene	18.038	180	149737	48.54 ug/L	99
116) hexachlorobutadiene	18.164	225	100033	47.25 ug/L	99
117) naphthalene	18.326	128	261376	47.63 ug/L	100
118) 1,2,3-trichlorobenzene	18.582	180	129138	47.94 ug/L	98

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

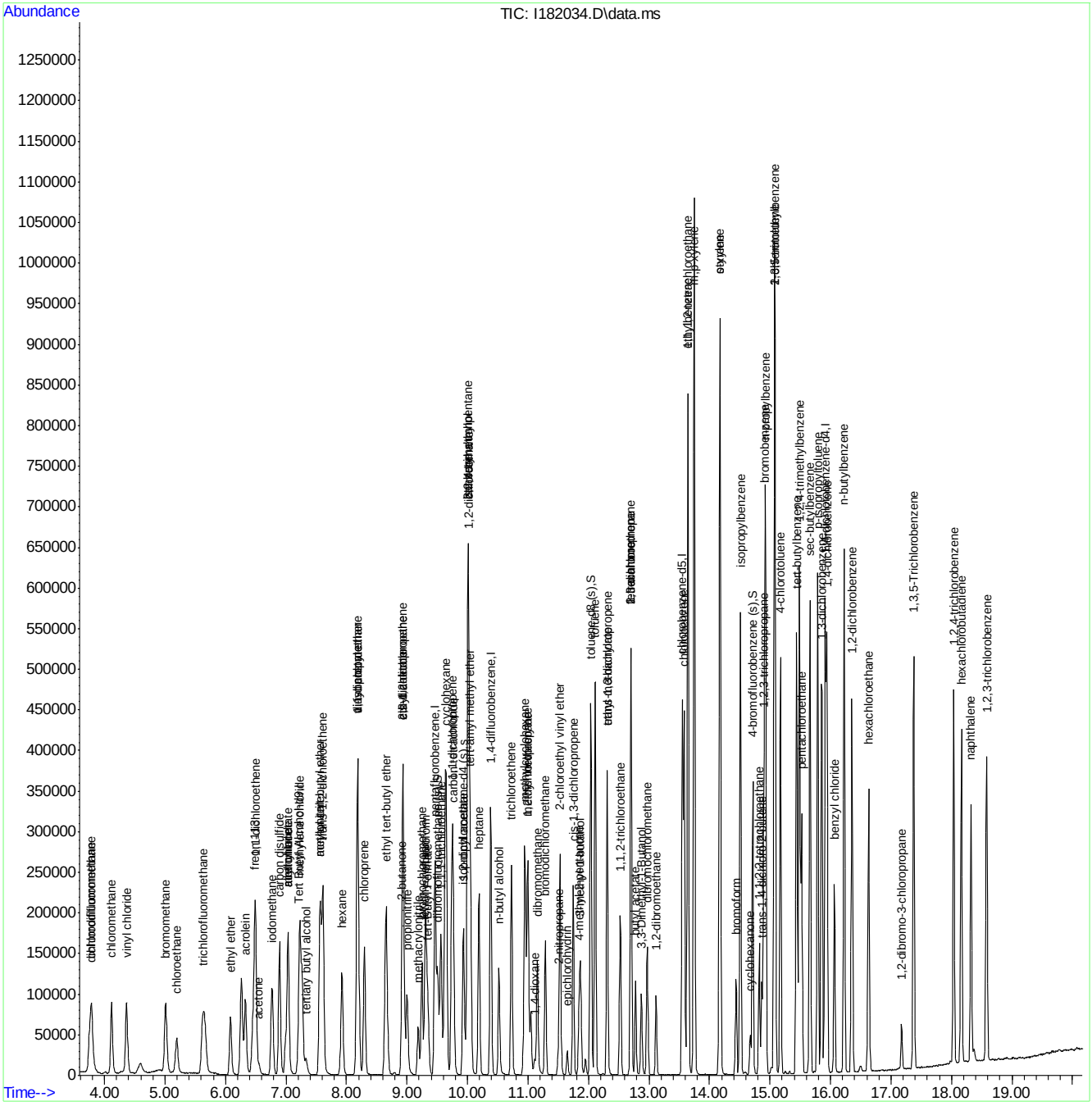
7.7.23

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7353\
Data File : I182034.D
Acq On : 6 Mar 2013 10:31 am
Operator : SCOTTM
Sample : CC7342-50
Misc : MS44166,VI7353,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 06 10:55:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7342.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Feb 28 11:42:38 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133056.D
Acq On : 6 Feb 2013 3:27 pm
Operator : DIPAP
Sample : IC5870-0.5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 07 12:29:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:25:15 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	124713	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	273443	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	384356	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	353510	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	208501	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	1146	0.66	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery	=	1.32%#	
45) 1,2-dichloroethane-d4 (s)	11.194	65	1685	0.95	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery	=	1.90%#	
74) toluene-d8 (s)	13.349	98	7296	1.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery	=	2.22%#	
99) 4-bromofluorobenzene (s)	16.194	95	3334	1.38	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery	=	2.76%#	
Target Compounds						Qvalue
6) chlorodifluoromethane	4.243	51	1043	0.44	ug/L	86
7) dichlorodifluoromethane	4.212	85	1398	0.48	ug/L	98
8) chloromethane	4.672	50	1461	0.55	ug/L	81
9) vinyl chloride	4.933	62	1358	0.49	ug/L	78
10) bromomethane	5.734	94	1181	0.88	ug/L	70
11) chloroethane	5.959	64	574	0.46	ug/L #	46
12) vinyl bromide	6.346	106	675	0.41	ug/L #	90
13) trichlorofluoromethane	6.450	101	1429	0.47	ug/L	95
14) Pentane	6.571	43	1398	0.53	ug/L	97
15) ethyl ether	6.968	74	845	0.89	ug/L	95
16) acrolein	7.313	56	1271	3.90	ug/L	85
17) 1,1-dichloroethene	7.444	96	853	0.52	ug/L	79
19) allyl chloride	8.072	76	445	0.42	ug/L #	38
21) iodomethane	7.773	142	1081	0.55	ug/L	85
23) carbon disulfide	7.899	76	2996	0.53	ug/L	99
26) methyl tert butyl ether	8.631	73	1957	0.42	ug/L	66
27) trans-1,2-dichloroethene	8.704	96	837	0.46	ug/L #	69
28) di-isopropyl ether	9.290	45	2106	0.45	ug/L	85
30) 1,1-dichloroethane	9.343	63	1295	0.45	ug/L	87
31) chloroprene	9.452	53	928	0.39	ug/L	87
32) acrylonitrile	8.715	53	1125	1.88	ug/L	82
34) ethyl tert-butyl ether	9.777	59	1864	0.39	ug/L	76
36) 2,2-dichloropropane	10.122	77	1388	0.52	ug/L	94
37) cis-1,2-dichloroethene	10.153	96	812	0.41	ug/L	97
39) propionitrile	10.268	54	947	3.70	ug/L	93
40) bromochloromethane	10.488	128	411	0.45	ug/L #	69
42) chloroform	10.546	85	1092	0.54	ug/L #	77
43) t-butyl formate	10.546	59	458	0.36	ug/L #	52
48) 1,1,1-trichloroethane	10.781	97	1300	0.45	ug/L	79
49) Cyclohexane	10.833	84	1124	0.44	ug/L	86
51) epichlorohydrin	12.983	57	352	2.09	ug/L	58
52) n-butyl alcohol	11.816	56	1019	17.22	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133056.D
Acq On : 6 Feb 2013 3:27 pm
Operator : DIPAP
Sample : IC5870-0.5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 07 12:29:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:25:15 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) carbon tetrachloride	10.985	117	1071	0.44	ug/L		95
54) 1,1-dichloropropene	10.964	75	1116	0.49	ug/L		75
56) hexane	9.003	57	1326	0.72	ug/L		85
57) 2,2,4-TRIMETHYLPENTANE	11.199	57	2276	0.43	ug/L		94
58) benzene	11.246	78	3580	0.53	ug/L		92
60) heptane	11.398	57	460	0.41	ug/L	#	74
62) 1,2-dichloroethane	11.293	62	879	0.44	ug/L		86
63) Ethyl acrylate	12.005	55	759	0.37	ug/L		80
64) trichloroethene	11.989	95	851	0.48	ug/L		88
65) tert-Amyl Ethyl Ether	12.125	87	867	0.37	ug/L	#	96
68) 2-chloroethyl vinyl ether	12.831	63	1277	1.86	ug/L		91
69) 1,2-dichloropropane	12.282	63	686	0.44	ug/L		92
70) dibromomethane	12.455	93	435	0.45	ug/L		79
71) methylcyclohexane	12.183	83	1070	0.40	ug/L		92
72) bromodichloromethane	12.585	83	1002	0.45	ug/L		94
73) cis-1,3-dichloropropene	13.061	75	1330	0.48	ug/L		89
76) toluene	13.427	92	2778	0.60	ug/L		91
77) 3-methyl-1-butanol	13.202	55	607	6.86	ug/L		95
78) trans-1,3-dichloropropene	13.652	75	1156	0.45	ug/L		93
79) ethyl methacrylate	13.621	69	833	0.39	ug/L		92
80) 1,1,2-trichloroethane	13.882	83	480	0.40	ug/L		83
83) tetrachloroethene	14.034	164	887	0.52	ug/L	#	79
84) 1,3-dichloropropane	14.081	76	1217	0.52	ug/L		91
86) 3,3-dimethyl-1-butanol	14.254	57	697	4.04	ug/L		98
87) dibromochloromethane	14.364	129	911	0.47	ug/L		86
88) 1,2-dibromoethane	14.526	107	791	0.51	ug/L		96
89) chlorobenzene	14.996	112	2679	0.52	ug/L		88
90) 1,1,1,2-tetrachloroethane	15.070	131	881	0.47	ug/L		94
91) ethylbenzene	15.038	91	5017	0.57	ug/L		97
92) m,p-xylene	15.148	106	4065	1.16	ug/L		98
93) o-xylene	15.603	106	1905	0.56	ug/L	#	80
94) butyl acrylate	15.410	55	1232	0.38	ug/L	#	86
95) styrene	15.619	104	3076	0.52	ug/L		89
96) bromoform	15.927	173	749	0.50	ug/L		77
98) isopropylbenzene	15.954	105	4706	0.51	ug/L		98
100) cyclohexanone	16.178	98	1068	7.67	ug/L		89
101) bromobenzene	16.409	156	1339	0.56	ug/L	#	75
102) 1,1,2,2-tetrachloroethane	16.320	83	971	0.47	ug/L		96
103) trans-1,4-dichloro-2-b...	16.356	53	303	0.50	ug/L		89
104) 1,2,3-trichloropropane	16.393	110	299	0.49	ug/L		94
105) n-propylbenzene	16.393	120	1302	0.52	ug/L	#	62
106) 4-Ethyltoluene	16.498	105	4871	0.52	ug/L		99
107) 2-chlorotoluene	16.566	126	1215	0.55	ug/L	#	88
109) 1,3,5-trimethylbenzene	16.545	105	4041	0.53	ug/L		97
110) tert-butylbenzene	16.911	119	3682	0.54	ug/L		80
111) pentachloroethane	17.031	167	748	0.48	ug/L		82
112) 1,2,4-trimethylbenzene	16.968	105	4735	0.60	ug/L		85
113) sec-butylbenzene	17.141	105	5405	0.53	ug/L		98
114) 1,3-dichlorobenzene	17.376	146	2753	0.60	ug/L		94
115) p-isopropyltoluene	17.261	119	4561	0.52	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133056.D
Acq On : 6 Feb 2013 3:27 pm
Operator : DIPAP
Sample : IC5870-0.5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 07 12:29:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:25:15 2013
Response via : Initial Calibration

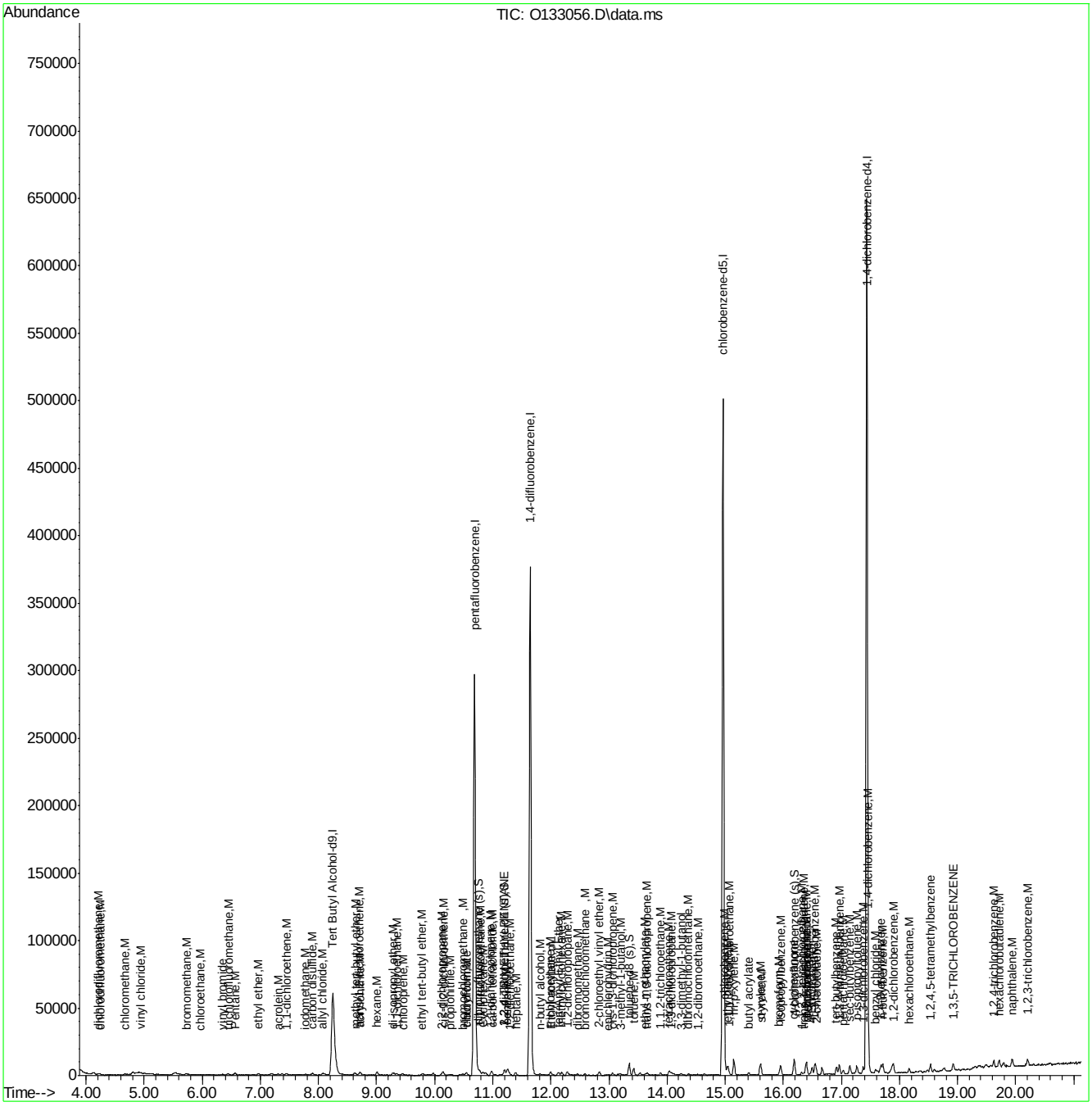
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,4-dichlorobenzene	17.460	146	2917	0.62 ug/L	78
117) 1,2-dichlorobenzene	17.899	146	2440	0.57 ug/L	94
118) benzyl chloride	17.591	91	2514	0.55 ug/L	98
119) 1,4-Diethylbenzene	17.674	119	2650	0.49 ug/L	94
120) n-butylbenzene	17.711	92	2478	0.56 ug/L	87
122) 1,3,5-TRICHLOROBENZENE	18.924	180	2110	0.58 ug/L	98
123) 1,2,4-trichlorobenzene	19.620	180	2141	0.64 ug/L	95
124) hexachlorobutadiene	19.719	225	1100	0.52 ug/L	84
125) naphthalene	19.939	128	5411	0.71 ug/L	98
126) 1,2,3-trichlorobenzene	20.206	180	1805	0.59 ug/L	90
127) hexachloroethane	18.166	201	639	0.39 ug/L	86
128) 1,2,4,5-tetramethylben...	18.527	119	3514	0.43 ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133056.D
Acq On : 6 Feb 2013 3:27 pm
Operator : DIPAP
Sample : IC5870-0.5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 07 12:29:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:25:15 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133057.D
Acq On : 6 Feb 2013 3:57 pm
Operator : DIPAP
Sample : IC5870-1
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 12:36:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:35:24 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	120022	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	259788	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	367501	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	339723	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	202069	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	1882	0.99	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 1.98%#			
45) 1,2-dichloroethane-d4 (s)	11.199	65	2285	0.93	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 1.86%#			
74) toluene-d8 (s)	13.349	98	9237	0.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 1.82%#			
99) 4-bromofluorobenzene (s)	16.194	95	3955	0.90	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 1.80%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.401	59	1064	5.18	ug/L	65
6) chlorodifluoromethane	4.233	51	1721	0.76	ug/L	92
7) dichlorodifluoromethane	4.212	85	2550	0.94	ug/L	98
8) chloromethane	4.672	50	2301	0.87	ug/L	99
9) vinyl chloride	4.944	62	2382	0.91	ug/L	95
10) bromomethane	5.718	94	1544	1.21	ug/L	74
11) chloroethane	5.932	64	923	0.78	ug/L	91
12) vinyl bromide	6.330	106	1392	0.98	ug/L #	91
13) trichlorofluoromethane	6.445	101	2706	0.94	ug/L	93
14) Pentane	6.576	43	2638	1.05	ug/L	95
15) ethyl ether	6.979	74	1287	1.42	ug/L	84
16) acrolein	7.308	56	2117	6.83	ug/L	100
17) 1,1-dichloroethene	7.449	96	1668	1.05	ug/L #	71
19) allyl chloride	8.077	76	835	0.83	ug/L #	79
20) acetonitrile	8.093	40	1049	7.84	ug/L #	58
21) iodomethane	7.768	142	1590	0.86	ug/L	93
23) carbon disulfide	7.894	76	5545	1.00	ug/L	91
25) methyl acetate	8.087	43	909	0.76	ug/L	96
26) methyl tert butyl ether	8.636	73	4171	1.03	ug/L	94
27) trans-1,2-dichloroethene	8.710	96	1970	1.18	ug/L	81
28) di-isopropyl ether	9.290	45	3763	0.89	ug/L	94
30) 1,1-dichloroethane	9.353	63	2793	1.07	ug/L	82
31) chloroprene	9.447	53	1894	0.83	ug/L	85
32) acrylonitrile	8.715	53	2560	4.51	ug/L	91
34) ethyl tert-butyl ether	9.798	59	3564	0.88	ug/L	98
36) 2,2-dichloropropane	10.132	77	2423	0.93	ug/L	89
37) cis-1,2-dichloroethene	10.153	96	2021	1.19	ug/L	84
39) propionitrile	10.263	54	1840	7.56	ug/L	89
40) bromochloromethane	10.493	128	873	1.06	ug/L	72
41) tetrahydrofuran	10.530	42	640	1.21	ug/L	90
42) chloroform	10.546	85	1937	0.97	ug/L	85
43) t-butyl formate	10.561	59	801	0.67	ug/L #	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133057.D
Acq On : 6 Feb 2013 3:57 pm
Operator : DIPAP
Sample : IC5870-1
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 12:36:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:35:24 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) freon 113	7.381	151	1069	0.85	ug/L	#	68
47) methacrylonitrile	10.446	41	709	0.81	ug/L		91
48) 1,1,1-trichloroethane	10.776	97	2758	1.06	ug/L		85
49) Cyclohexane	10.838	84	2216	0.90	ug/L		90
51) epichlorohydrin	12.993	57	641	3.97	ug/L		89
52) n-butyl alcohol	11.806	56	1725	30.48	ug/L		93
53) carbon tetrachloride	10.990	117	2237	1.03	ug/L		91
54) 1,1-dichloropropene	10.969	75	2205	1.02	ug/L		97
56) hexane	9.008	57	2800	1.30	ug/L		92
57) 2,2,4-TRIMETHYLPENTANE	11.205	57	4668	0.99	ug/L		93
58) benzene	11.252	78	6917	1.04	ug/L		99
59) tert-amyl methyl ether	11.267	87	930	0.91	ug/L	#	66
60) heptane	11.393	57	996	1.02	ug/L	#	73
61) isopropyl acetate	11.184	43	3217	0.89	ug/L		91
62) 1,2-dichloroethane	11.293	62	1949	1.08	ug/L		99
63) Ethyl acrylate	12.010	55	1712	0.87	ug/L		89
64) trichloroethene	11.994	95	1683	1.02	ug/L		91
65) tert-Amyl Ethyl Ether	12.130	87	1861	0.84	ug/L		96
66) methyl methacrylate	12.277	69	993	0.93	ug/L		84
68) 2-chloroethyl vinyl ether	12.826	63	2437	3.71	ug/L		87
69) 1,2-dichloropropane	12.287	63	1614	1.15	ug/L		88
70) dibromomethane	12.455	93	1001	1.14	ug/L	#	71
71) methylcyclohexane	12.183	83	2273	0.89	ug/L		94
72) bromodichloromethane	12.596	83	2122	1.04	ug/L		91
73) cis-1,3-dichloropropene	13.056	75	2535	0.97	ug/L		93
75) 4-methyl-2-pentanone	13.155	58	451	0.72	ug/L	#	74
76) toluene	13.427	92	5280	1.09	ug/L		88
77) 3-methyl-1-butanol	13.192	55	1180	13.94	ug/L		95
78) trans-1,3-dichloropropene	13.658	75	2479	1.07	ug/L		88
79) ethyl methacrylate	13.621	69	1934	1.07	ug/L		87
80) 1,1,2-trichloroethane	13.882	83	1150	1.11	ug/L		96
81) 2-hexanone	14.065	58	552	0.86	ug/L	#	76
83) tetrachloroethene	14.034	164	1883	1.12	ug/L		86
84) 1,3-dichloropropane	14.081	76	2335	1.02	ug/L		94
85) butyl acetate	14.118	56	858	0.85	ug/L		85
86) 3,3-dimethyl-1-butanol	14.243	57	1296	7.83	ug/L		95
87) dibromochloromethane	14.364	129	2009	1.12	ug/L		86
88) 1,2-dibromoethane	14.526	107	1538	1.03	ug/L		97
89) chlorobenzene	14.996	112	5448	1.08	ug/L		92
90) 1,1,1,2-tetrachloroethane	15.064	131	1875	1.07	ug/L		81
91) ethylbenzene	15.038	91	8989	0.99	ug/L		96
92) m,p-xylene	15.153	106	7521	2.07	ug/L		96
93) o-xylene	15.603	106	3524	1.02	ug/L		83
94) butyl acrylate	15.404	55	2735	1.00	ug/L		93
95) styrene	15.619	104	5863	1.01	ug/L		97
96) bromoform	15.933	173	1383	0.96	ug/L		81
98) isopropylbenzene	15.959	105	9226	1.02	ug/L		99
100) cyclohexanone	16.179	98	1740	12.89	ug/L		93
101) bromobenzene	16.409	156	2619	1.07	ug/L		92
102) 1,1,2,2-tetrachloroethane	16.314	83	1969	1.01	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133057.D
Acq On : 6 Feb 2013 3:57 pm
Operator : DIPAP
Sample : IC5870-1
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 12:36:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:35:24 2013
Response via : Initial Calibration

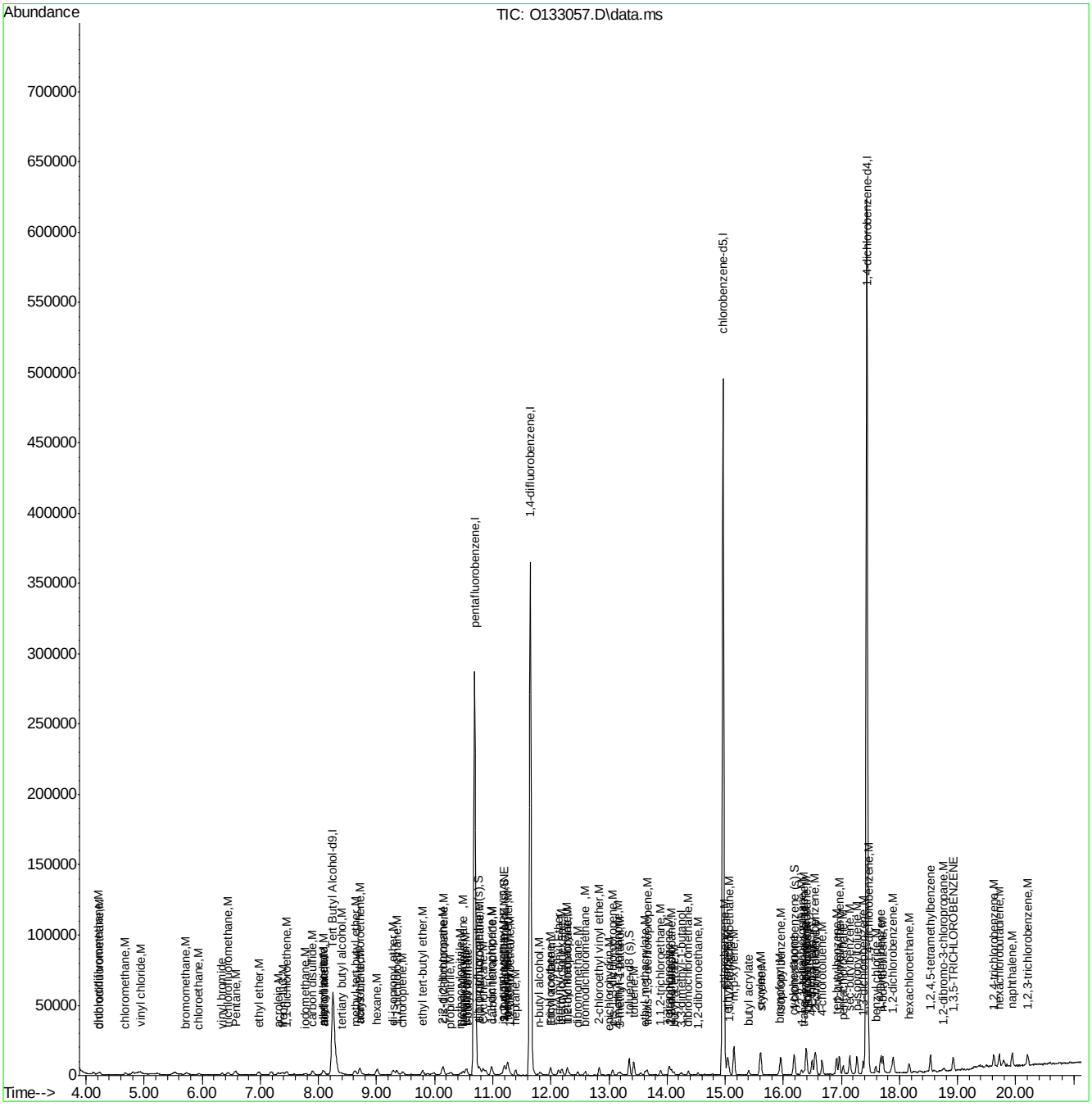
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
103) trans-1,4-dichloro-2-b...	16.356	53	534	0.91	ug/L		89
104) 1,2,3-trichloropropane	16.393	110	588	1.00	ug/L		87
105) n-propylbenzene	16.388	120	2509	1.01	ug/L	#	75
106) 4-Ethyltoluene	16.498	105	8909	0.96	ug/L		98
107) 2-chlorotoluene	16.560	126	2470	1.10	ug/L		90
108) 4-chlorotoluene	16.665	126	2376	1.07	ug/L		90
109) 1,3,5-trimethylbenzene	16.545	105	8129	1.07	ug/L		93
110) tert-butylbenzene	16.921	119	7070	1.03	ug/L		100
111) pentachloroethane	17.031	167	1511	1.02	ug/L		96
112) 1,2,4-trimethylbenzene	16.968	105	8218	0.98	ug/L		90
113) sec-butylbenzene	17.146	105	10553	1.04	ug/L		97
114) 1,3-dichlorobenzene	17.371	146	4926	1.01	ug/L		92
115) p-isopropyltoluene	17.266	119	9235	1.07	ug/L		96
116) 1,4-dichlorobenzene	17.465	146	5235	1.02	ug/L		78
117) 1,2-dichlorobenzene	17.889	146	4677	1.05	ug/L		87
118) benzyl chloride	17.596	91	4259	0.96	ug/L		100
119) 1,4-Diethylbenzene	17.680	119	5142	0.99	ug/L		94
120) n-butylbenzene	17.716	92	4671	1.02	ug/L		93
121) 1,2-dibromo-3-chloropr...	18.752	75	574	1.37	ug/L	#	53
122) 1,3,5-TRICHLOROBENZENE	18.924	180	4074	1.07	ug/L		99
123) 1,2,4-trichlorobenzene	19.625	180	3730	1.01	ug/L		98
124) hexachlorobutadiene	19.719	225	2267	1.09	ug/L		79
125) naphthalene	19.939	128	8778	0.98	ug/L		96
126) 1,2,3-trichlorobenzene	20.206	180	3534	1.10	ug/L		93
127) hexachloroethane	18.166	201	1626	1.16	ug/L		93
128) 1,2,4,5-tetramethylben...	18.532	119	7619	1.03	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133057.D
Acq On : 6 Feb 2013 3:57 pm
Operator : DIPAP
Sample : IC5870-1
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 07 12:36:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:35:24 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133058.D
Acq On : 6 Feb 2013 4:28 pm
Operator : DIPAP
Sample : IC5870-2
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 12:38:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:37:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	126147	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	256740	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	369318	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	339882	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	202717	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.760	113	3342	1.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery	=	3.56%#	
45) 1,2-dichloroethane-d4 (s)	11.199	65	3924	1.66	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery	=	3.32%#	
74) toluene-d8 (s)	13.349	98	16081	1.63	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery	=	3.26%#	
99) 4-bromofluorobenzene (s)	16.194	95	6264	1.47	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery	=	2.94%#	
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.385	59	2129	9.69	ug/L	76
4) 1,4-dioxane	12.413	88	1122	50.40	ug/L	74
6) chlorodifluoromethane	4.238	51	4159	1.85	ug/L	95
7) dichlorodifluoromethane	4.206	85	4974	1.89	ug/L	86
8) chloromethane	4.672	50	4507	1.80	ug/L	94
9) vinyl chloride	4.933	62	4546	1.82	ug/L	96
10) bromomethane	5.723	94	2769	1.99	ug/L	88
11) chloroethane	5.948	64	2043	1.96	ug/L	93
12) vinyl bromide	6.351	106	2772	1.98	ug/L #	97
13) trichlorofluoromethane	6.434	101	5041	1.83	ug/L	95
14) Pentane	6.576	43	4787	1.88	ug/L	97
15) ethyl ether	6.963	74	1890	2.12	ug/L	84
16) acrolein	7.303	56	5220	17.05	ug/L	96
17) 1,1-dichloroethene	7.444	96	2860	1.79	ug/L	86
19) allyl chloride	8.077	76	1655	1.82	ug/L #	75
20) acetonitrile	8.082	40	2331	17.63	ug/L	99
21) iodomethane	7.779	142	2680	1.46	ug/L	89
23) carbon disulfide	7.899	76	9795	1.79	ug/L	99
25) methyl acetate	8.077	43	1888	1.59	ug/L	85
26) methyl tert butyl ether	8.631	73	7543	1.87	ug/L	90
27) trans-1,2-dichloroethene	8.710	96	3307	1.89	ug/L	86
28) di-isopropyl ether	9.285	45	8081	2.01	ug/L	96
29) 2-butanone	10.137	72	382	1.79	ug/L #	3
30) 1,1-dichloroethane	9.342	63	4848	1.84	ug/L	94
31) chloroprene	9.452	53	4254	2.07	ug/L	89
32) acrylonitrile	8.704	53	4614	8.23	ug/L	90
34) ethyl tert-butyl ether	9.787	59	7599	1.91	ug/L	96
36) 2,2-dichloropropane	10.127	77	4695	1.87	ug/L	98
37) cis-1,2-dichloroethene	10.148	96	3454	1.93	ug/L	95
38) methylacrylate	10.226	85	353	1.31	ug/L #	51
39) propionitrile	10.263	54	4019	19.03	ug/L	88
40) bromochloromethane	10.483	128	1627	1.95	ug/L	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133058.D
Acq On : 6 Feb 2013 4:28 pm
Operator : DIPAP
Sample : IC5870-2
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 12:38:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:37:35 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) tetrahydrofuran	10.519	42	919	1.59	ug/L		87
42) chloroform	10.551	85	3514	1.80	ug/L		91
43) t-butyl formate	10.561	59	1884	1.59	ug/L		92
46) freon 113	7.381	151	2258	1.96	ug/L		95
47) methacrylonitrile	10.441	41	1580	2.02	ug/L		88
48) 1,1,1-trichloroethane	10.786	97	4923	1.87	ug/L		90
49) Cyclohexane	10.828	84	4197	1.82	ug/L		84
51) epichlorohydrin	12.988	57	1381	9.49	ug/L		95
52) n-butyl alcohol	11.806	56	4295	75.52	ug/L		90
53) carbon tetrachloride	10.985	117	4209	1.91	ug/L		97
54) 1,1-dichloropropene	10.974	75	4139	1.90	ug/L		97
56) hexane	9.008	57	4471	2.07	ug/L		97
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	9873	2.09	ug/L		98
58) benzene	11.251	78	12304	1.82	ug/L		99
59) tert-amyl methyl ether	11.262	87	1901	1.94	ug/L	#	88
60) heptane	11.398	57	2377	2.41	ug/L		87
61) isopropyl acetate	11.178	43	7171	2.09	ug/L		95
62) 1,2-dichloroethane	11.293	62	3564	1.92	ug/L		97
63) Ethyl acrylate	11.999	55	3651	1.97	ug/L		98
64) trichloroethene	11.994	95	3297	1.97	ug/L		92
65) tert-Amyl Ethyl Ether	12.130	87	3690	1.80	ug/L		99
66) methyl methacrylate	12.277	69	1934	1.87	ug/L		97
68) 2-chloroethyl vinyl ether	12.831	63	5919	10.29	ug/L		92
69) 1,2-dichloropropane	12.282	63	2754	1.86	ug/L		100
70) dibromomethane	12.460	93	1724	1.87	ug/L		90
71) methylcyclohexane	12.193	83	5031	2.07	ug/L		97
72) bromodichloromethane	12.585	83	3984	1.92	ug/L		87
73) cis-1,3-dichloropropene	13.061	75	5042	1.95	ug/L		91
75) 4-methyl-2-pentanone	13.155	58	1048	1.93	ug/L	#	80
76) toluene	13.422	92	8541	1.70	ug/L		100
77) 3-methyl-1-butanol	13.192	55	2821	33.16	ug/L		94
78) trans-1,3-dichloropropene	13.657	75	4685	1.96	ug/L		96
79) ethyl methacrylate	13.621	69	3689	1.98	ug/L		98
80) 1,1,2-trichloroethane	13.888	83	2308	2.14	ug/L		87
81) 2-hexanone	14.060	58	1118	1.86	ug/L	#	74
83) tetrachloroethene	14.039	164	3319	1.90	ug/L		92
84) 1,3-dichloropropane	14.081	76	4234	1.84	ug/L		90
85) butyl acetate	14.118	56	1945	2.08	ug/L	#	82
86) 3,3-dimethyl-1-butanol	14.238	57	2927	19.82	ug/L		95
87) dibromochloromethane	14.358	129	3482	1.86	ug/L		95
88) 1,2-dibromoethane	14.520	107	2945	1.95	ug/L		85
89) chlorobenzene	14.996	112	9765	1.88	ug/L		97
90) 1,1,1,2-tetrachloroethane	15.059	131	3618	2.02	ug/L		89
91) ethylbenzene	15.038	91	16489	1.82	ug/L		98
92) m,p-xylene	15.153	106	13233	3.59	ug/L		93
93) o-xylene	15.603	106	6373	1.83	ug/L		93
94) butyl acrylate	15.404	55	5560	2.03	ug/L		94
95) styrene	15.619	104	10809	1.86	ug/L		96
96) bromoform	15.927	173	2568	1.81	ug/L		91
98) isopropylbenzene	15.953	105	17087	1.87	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133058.D
Acq On : 6 Feb 2013 4:28 pm
Operator : DIPAP
Sample : IC5870-2
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 12:38:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:37:35 2013
Response via : Initial Calibration

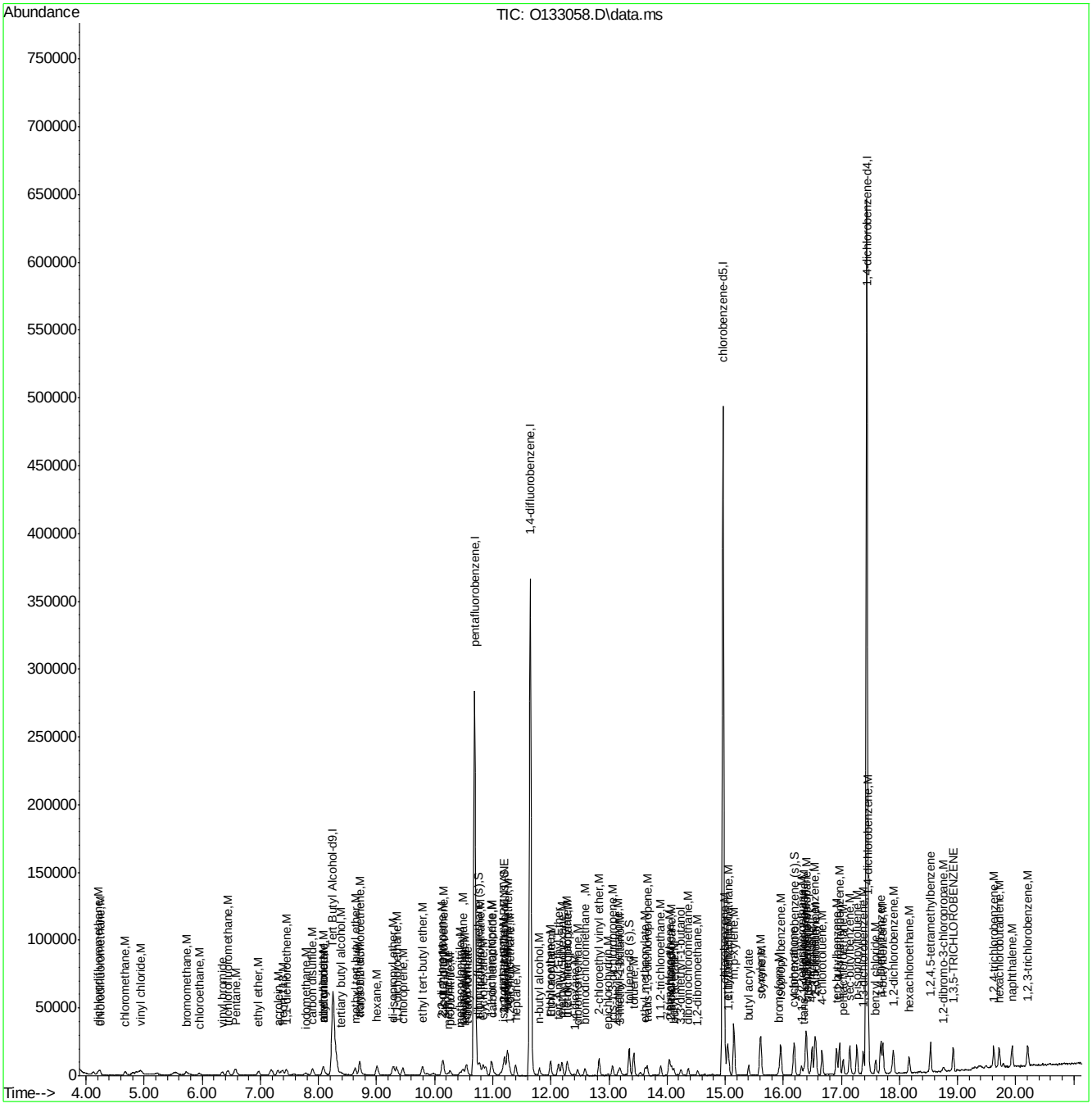
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
100) cyclohexanone	16.178	98	2826	20.87	ug/L		96
101) bromobenzene	16.409	156	4483	1.78	ug/L		92
102) 1,1,2,2-tetrachloroethane	16.320	83	3866	1.97	ug/L		94
103) trans-1,4-dichloro-2-b...	16.351	53	1110	1.94	ug/L		89
104) 1,2,3-trichloropropane	16.393	110	1123	1.91	ug/L		95
105) n-propylbenzene	16.388	120	4581	1.83	ug/L	#	76
106) 4-Ethyltoluene	16.492	105	16492	1.80	ug/L		99
107) 2-chlorotoluene	16.560	126	4123	1.77	ug/L		98
108) 4-chlorotoluene	16.665	126	4414	1.91	ug/L		96
109) 1,3,5-trimethylbenzene	16.539	105	14101	1.81	ug/L		95
110) tert-butylbenzene	16.916	119	12351	1.77	ug/L		95
111) pentachloroethane	17.031	167	2855	1.91	ug/L		82
112) 1,2,4-trimethylbenzene	16.963	105	14514	1.73	ug/L		96
113) sec-butylbenzene	17.146	105	18733	1.81	ug/L		98
114) 1,3-dichlorobenzene	17.376	146	8921	1.81	ug/L		93
115) p-isopropyltoluene	17.266	119	15808	1.78	ug/L		97
116) 1,4-dichlorobenzene	17.460	146	9466	1.83	ug/L		95
117) 1,2-dichlorobenzene	17.894	146	8481	1.87	ug/L		97
118) benzyl chloride	17.591	91	9055	2.07	ug/L		99
119) 1,4-Diethylbenzene	17.679	119	9920	1.90	ug/L		99
120) n-butylbenzene	17.711	92	8288	1.80	ug/L		97
121) 1,2-dibromo-3-chloropr...	18.752	75	941	1.89	ug/L	#	78
122) 1,3,5-TRICHLOROBENZENE	18.919	180	7002	1.79	ug/L		98
123) 1,2,4-trichlorobenzene	19.625	180	6490	1.75	ug/L		97
124) hexachlorobutadiene	19.714	225	3926	1.82	ug/L		86
125) naphthalene	19.939	128	14763	1.66	ug/L		97
126) 1,2,3-trichlorobenzene	20.206	180	5915	1.77	ug/L		90
127) hexachloroethane	18.166	201	2926	1.97	ug/L		95
128) 1,2,4,5-tetramethylben...	18.532	119	14999	2.00	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133058.D
Acq On : 6 Feb 2013 4:28 pm
Operator : DIPAP
Sample : IC5870-2
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 07 12:38:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:37:35 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133059.D
Acq On : 6 Feb 2013 4:58 pm
Operator : DIPAP
Sample : IC5870-5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 07 12:39:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:39:26 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.249	65	132174	500.00	ug/L	-0.02
5) pentafluorobenzene	10.687	168	243763	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	355906	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	335345	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	198975	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	6923	3.99	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 7.98%#			
45) 1,2-dichloroethane-d4 (s)	11.204	65	8137	3.79	ug/L	0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 7.58%#			
74) toluene-d8 (s)	13.349	98	29677	3.27	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 6.54%#			
99) 4-bromofluorobenzene (s)	16.194	95	11685	2.99	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 5.98%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.396	59	5530	24.27	ug/L	93
4) 1,4-dioxane	12.397	88	2793	119.74	ug/L	83
6) chlorodifluoromethane	4.238	51	9211	4.31	ug/L	95
7) dichlorodifluoromethane	4.206	85	10940	4.44	ug/L	99
8) chloromethane	4.672	50	10153	4.38	ug/L	95
9) vinyl chloride	4.939	62	10449	4.50	ug/L	94
10) bromomethane	5.718	94	5834	4.42	ug/L	88
11) chloroethane	5.938	64	4600	4.68	ug/L	95
12) vinyl bromide	6.335	106	6332	4.78	ug/L	97
13) trichlorofluoromethane	6.440	101	11515	4.53	ug/L	97
14) Pentane	6.565	43	9812	4.14	ug/L	96
15) ethyl ether	6.963	74	4352	4.99	ug/L	95
16) acrolein	7.292	56	12493	46.40	ug/L	96
17) 1,1-dichloroethene	7.444	96	6315	4.28	ug/L	94
18) acetone	7.554	43	3066	6.36	ug/L	87
19) allyl chloride	8.066	76	3966	4.74	ug/L #	63
20) acetonitrile	8.082	40	5760	48.77	ug/L #	82
21) iodomethane	7.779	142	6241	3.58	ug/L	93
23) carbon disulfide	7.899	76	21807	4.30	ug/L	96
24) methylene chloride	8.302	84	9641	5.98	ug/L	95
25) methyl acetate	8.071	43	5325	5.26	ug/L	87
26) methyl tert butyl ether	8.631	73	17911	4.75	ug/L	94
27) trans-1,2-dichloroethene	8.710	96	7307	4.47	ug/L	91
28) di-isopropyl ether	9.285	45	20170	5.27	ug/L	98
29) 2-butanone	10.143	72	1011	4.98	ug/L #	22
30) 1,1-dichloroethane	9.342	63	11248	4.58	ug/L	93
31) chloroprene	9.447	53	9489	4.80	ug/L	96
32) acrylonitrile	8.699	53	11913	22.38	ug/L	97
33) vinyl acetate	9.342	86	1106	4.60	ug/L #	35
34) ethyl tert-butyl ether	9.787	59	18605	5.00	ug/L	98
35) ethyl acetate	10.132	45	865	4.27	ug/L #	67
36) 2,2-dichloropropane	10.127	77	10092	4.31	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133059.D
Acq On : 6 Feb 2013 4:58 pm
Operator : DIPAP
Sample : IC5870-5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 07 12:39:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:39:26 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	10.143	96	7804	4.64	ug/L		96
38) methylacrylate	10.221	85	1127	5.33	ug/L	#	98
39) propionitrile	10.258	54	10127	51.33	ug/L		96
40) bromochloromethane	10.488	128	3571	4.54	ug/L		97
41) tetrahydrofuran	10.514	42	2326	4.55	ug/L		96
42) chloroform	10.545	85	7777	4.31	ug/L		99
43) t-butyl formate	10.556	59	4859	4.81	ug/L		94
46) freon 113	7.376	151	5419	4.99	ug/L		99
47) methacrylonitrile	10.436	41	3629	4.87	ug/L		94
48) 1,1,1-trichloroethane	10.781	97	10943	4.46	ug/L		97
49) Cyclohexane	10.838	84	9667	4.55	ug/L		94
51) epichlorohydrin	12.977	57	3826	27.76	ug/L		93
52) n-butyl alcohol	11.801	56	12503	228.14	ug/L		95
53) carbon tetrachloride	10.990	117	9671	4.60	ug/L		92
54) 1,1-dichloropropene	10.974	75	9413	4.53	ug/L		99
55) Tert Amyl Alcohol	11.126	55	1619	23.36	ug/L		96
56) hexane	9.008	57	8540	4.05	ug/L		89
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	23881	5.18	ug/L		99
58) benzene	11.251	78	27522	4.32	ug/L		100
59) tert-amyl methyl ether	11.267	87	4358	4.66	ug/L		95
60) heptane	11.393	57	5082	5.08	ug/L		96
61) isopropyl acetate	11.173	43	17073	5.09	ug/L		97
62) 1,2-dichloroethane	11.293	62	8884	5.02	ug/L		98
63) Ethyl acrylate	11.999	55	8405	4.73	ug/L		96
64) trichloroethene	11.994	95	7425	4.62	ug/L		98
65) tert-Amyl Ethyl Ether	12.130	87	8959	4.70	ug/L		98
66) methyl methacrylate	12.266	69	4834	4.96	ug/L		97
67) 2-nitropropane	13.176	46	337	3.93	ug/L	#	41
68) 2-chloroethyl vinyl ether	12.831	63	14649	26.17	ug/L		92
69) 1,2-dichloropropane	12.282	63	6706	4.79	ug/L		98
70) dibromomethane	12.460	93	4136	4.72	ug/L		91
71) methylcyclohexane	12.188	83	11897	5.03	ug/L		96
72) bromodichloromethane	12.590	83	9087	4.59	ug/L		90
73) cis-1,3-dichloropropene	13.061	75	11501	4.64	ug/L		98
75) 4-methyl-2-pentanone	13.155	58	2755	5.33	ug/L		93
76) toluene	13.427	92	19359	4.15	ug/L		89
77) 3-methyl-1-butanol	13.181	55	7206	96.11	ug/L		91
78) trans-1,3-dichloropropene	13.657	75	10982	4.79	ug/L		95
79) ethyl methacrylate	13.621	69	8777	4.90	ug/L		99
80) 1,1,2-trichloroethane	13.887	83	5315	5.02	ug/L		90
81) 2-hexanone	14.055	58	2950	5.22	ug/L		97
83) tetrachloroethene	14.039	164	7290	4.28	ug/L		98
84) 1,3-dichloropropane	14.076	76	10332	4.64	ug/L		96
85) butyl acetate	14.112	56	4782	5.11	ug/L		94
86) 3,3-dimethyl-1-butanol	14.233	57	7445	51.25	ug/L		97
87) dibromochloromethane	14.363	129	8056	4.44	ug/L		96
88) 1,2-dibromoethane	14.520	107	6755	4.56	ug/L		98
89) chlorobenzene	14.996	112	21728	4.31	ug/L		92
90) 1,1,1,2-tetrachloroethane	15.064	131	7873	4.44	ug/L		96
91) ethylbenzene	15.038	91	37317	4.28	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133059.D
Acq On : 6 Feb 2013 4:58 pm
Operator : DIPAP
Sample : IC5870-5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 07 12:39:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:39:26 2013
Response via : Initial Calibration

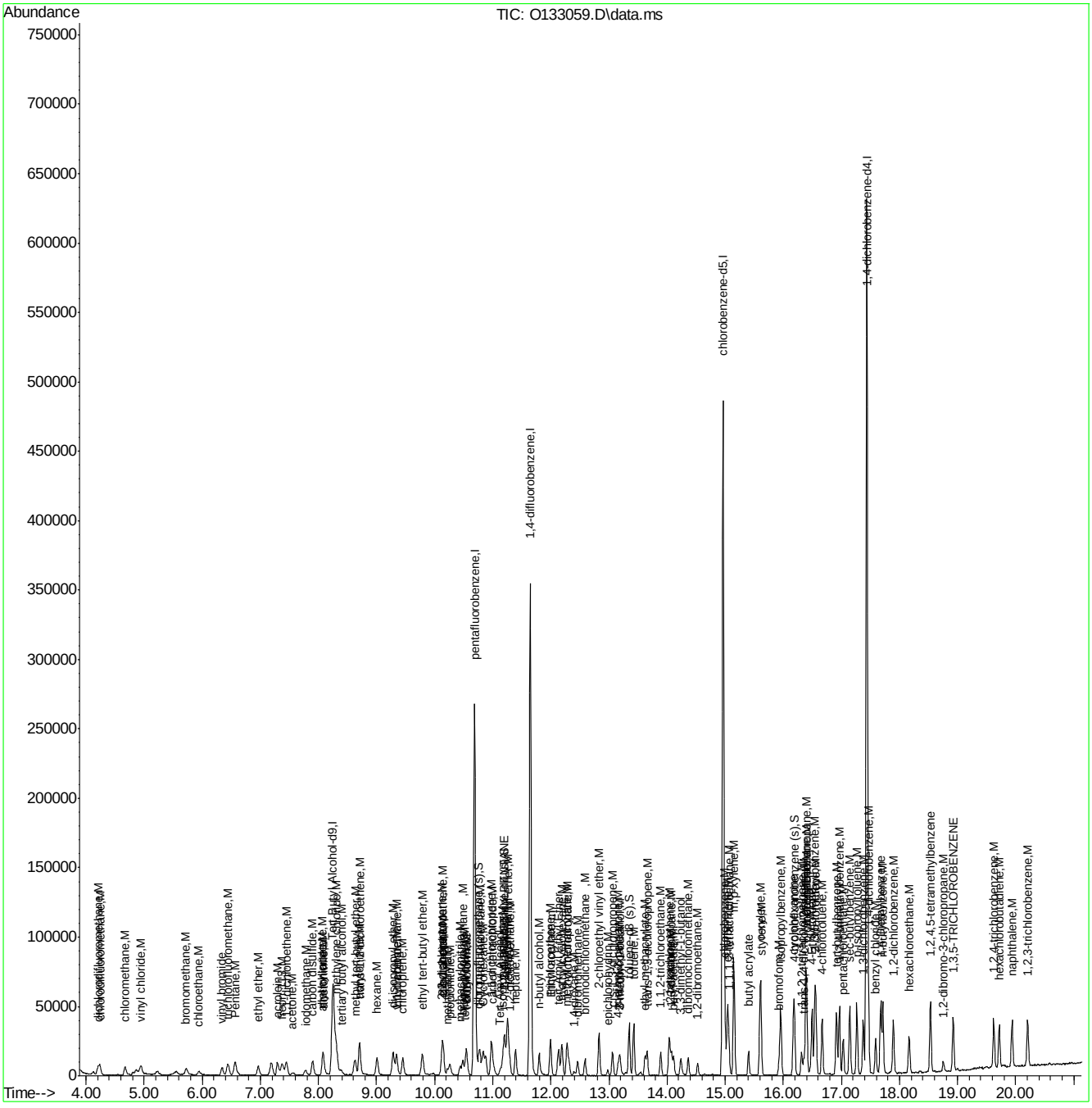
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	m,p-xylene	15.148	106	30248	8.54	ug/L		96
93)	o-xylene	15.603	106	14810	4.40	ug/L		95
94)	butyl acrylate	15.404	55	12926	4.77	ug/L		96
95)	styrene	15.619	104	24460	4.34	ug/L		97
96)	bromoform	15.927	173	6424	4.70	ug/L		95
98)	isopropylbenzene	15.953	105	38720	4.40	ug/L		98
100)	cyclohexanone	16.184	98	8905	67.01	ug/L		98
101)	bromobenzene	16.403	156	10254	4.26	ug/L		91
102)	1,1,2,2-tetrachloroethane	16.314	83	9457	4.93	ug/L		95
103)	trans-1,4-dichloro-2-b...	16.351	53	2783	4.99	ug/L	#	75
104)	1,2,3-trichloropropane	16.393	110	2672	4.68	ug/L		100
105)	n-propylbenzene	16.393	120	10085	4.20	ug/L		97
106)	4-Ethyltoluene	16.492	105	38740	4.41	ug/L		99
107)	2-chlorotoluene	16.560	126	9429	4.25	ug/L		82
108)	4-chlorotoluene	16.670	126	10143	4.54	ug/L		94
109)	1,3,5-trimethylbenzene	16.539	105	32365	4.33	ug/L		99
110)	tert-butylbenzene	16.916	119	29250	4.40	ug/L		96
111)	pentachloroethane	17.031	167	6849	4.72	ug/L		97
112)	1,2,4-trimethylbenzene	16.968	105	32907	4.14	ug/L		97
113)	sec-butylbenzene	17.146	105	42408	4.28	ug/L		97
114)	1,3-dichlorobenzene	17.376	146	20398	4.32	ug/L		98
115)	p-isopropyltoluene	17.266	119	36522	4.32	ug/L		99
116)	1,4-dichlorobenzene	17.465	146	20686	4.16	ug/L		99
117)	1,2-dichlorobenzene	17.894	146	18671	4.26	ug/L		95
118)	benzyl chloride	17.591	91	21290	4.90	ug/L		99
119)	1,4-Diethylbenzene	17.674	119	22793	4.51	ug/L		99
120)	n-butylbenzene	17.711	92	18701	4.24	ug/L		97
121)	1,2-dibromo-3-chloropr...	18.746	75	2076	4.33	ug/L		82
122)	1,3,5-TRICHLOROBENZENE	18.924	180	15760	4.21	ug/L		98
123)	1,2,4-trichlorobenzene	19.620	180	14472	4.10	ug/L		96
124)	hexachlorobutadiene	19.719	225	8759	4.24	ug/L		94
125)	naphthalene	19.939	128	33390	3.99	ug/L		99
126)	1,2,3-trichlorobenzene	20.206	180	13514	4.24	ug/L		96
127)	hexachloroethane	18.166	201	6628	4.56	ug/L		91
128)	1,2,4,5-tetramethylben...	18.532	119	33982	4.62	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133059.D
Acq On : 6 Feb 2013 4:58 pm
Operator : DIPAP
Sample : IC5870-5
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 07 12:39:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:39:26 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133060.D
Acq On : 6 Feb 2013 5:28 pm
Operator : DIPAP
Sample : IC5870-10
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 12:41:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:41:40 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	126919	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	252246	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	370738	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	351075	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	208827	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.760	113	16582	9.63	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 19.26%#			
45) 1,2-dichloroethane-d4 (s)	11.199	65	17704	8.37	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 16.74%#			
74) toluene-d8 (s)	13.349	98	69664	7.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 15.82%#			
99) 4-bromofluorobenzene (s)	16.194	95	26659	7.06	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 14.12%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.391	59	11092	51.07	ug/L	93
4) 1,4-dioxane	12.407	88	5370	244.91	ug/L	93
6) chlorodifluoromethane	4.238	51	20969	10.19	ug/L	97
7) dichlorodifluoromethane	4.201	85	26565	10.65	ug/L	98
8) chloromethane	4.672	50	22919	9.80	ug/L	98
9) vinyl chloride	4.944	62	24272	10.31	ug/L	97
10) bromomethane	5.718	94	12912	9.73	ug/L	98
11) chloroethane	5.938	64	10864	10.86	ug/L	95
12) vinyl bromide	6.340	106	14551	10.71	ug/L	98
13) trichlorofluoromethane	6.434	101	27788	10.81	ug/L	99
14) Pentane	6.560	43	23288	9.92	ug/L	97
15) ethyl ether	6.963	74	8918	9.88	ug/L	91
16) acrolein	7.292	56	27889	102.56	ug/L	93
17) 1,1-dichloroethene	7.444	96	14726	9.93	ug/L	99
18) acetone	7.559	43	4536	8.01	ug/L	92
19) allyl chloride	8.077	76	9240	10.81	ug/L	94
20) acetonitrile	8.077	40	11687	96.42	ug/L #	81
21) iodomethane	7.773	142	15640	10.11	ug/L	99
23) carbon disulfide	7.899	76	51840	10.17	ug/L	98
24) methylene chloride	8.296	84	19414	10.60	ug/L	99
25) methyl acetate	8.066	43	10556	9.90	ug/L	98
26) methyl tert butyl ether	8.626	73	41329	10.69	ug/L	99
27) trans-1,2-dichloroethene	8.704	96	16938	10.22	ug/L	93
28) di-isopropyl ether	9.285	45	44478	11.12	ug/L	98
29) 2-butanone	10.127	72	1815	8.65	ug/L #	86
30) 1,1-dichloroethane	9.342	63	26915	10.78	ug/L	98
31) chloroprene	9.447	53	22419	11.07	ug/L	95
32) acrylonitrile	8.699	53	25218	48.31	ug/L	97
33) vinyl acetate	9.332	86	2522	10.56	ug/L	91
34) ethyl tert-butyl ether	9.782	59	43066	11.18	ug/L	97
35) ethyl acetate	10.127	45	2025	10.42	ug/L	85
36) 2,2-dichloropropane	10.122	77	24450	10.37	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133060.D
Acq On : 6 Feb 2013 5:28 pm
Operator : DIPAP
Sample : IC5870-10
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 12:41:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:41:40 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	10.148	96	18214	10.62	ug/L	98
38) methylacrylate	10.216	85	2520	11.26	ug/L #	94
39) propionitrile	10.258	54	21409	104.17	ug/L	97
40) bromochloromethane	10.483	128	8512	10.66	ug/L	94
41) tetrahydrofuran	10.514	42	5013	9.69	ug/L	98
42) chloroform	10.545	85	18289	10.07	ug/L	93
43) t-butyl formate	10.556	59	11214	10.86	ug/L	98
46) freon 113	7.371	151	12312	10.96	ug/L	91
47) methacrylonitrile	10.436	41	7933	10.35	ug/L	94
48) 1,1,1-trichloroethane	10.781	97	26218	10.55	ug/L	96
49) Cyclohexane	10.838	84	23089	10.75	ug/L	90
51) epichlorohydrin	12.977	57	7556	51.22	ug/L	97
52) n-butyl alcohol	11.795	56	25828	473.11	ug/L	97
53) carbon tetrachloride	10.985	117	23622	10.96	ug/L	98
54) 1,1-dichloropropene	10.969	75	22306	10.51	ug/L	95
55) Tert Amyl Alcohol	11.126	55	3882	55.59	ug/L	91
56) hexane	9.008	57	18605	8.89	ug/L	97
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	51743	10.70	ug/L	99
58) benzene	11.252	78	65687	10.17	ug/L	100
59) tert-amyl methyl ether	11.262	87	10443	10.90	ug/L	99
60) heptane	11.393	57	11129	10.65	ug/L	97
61) isopropyl acetate	11.173	43	36301	10.34	ug/L	97
62) 1,2-dichloroethane	11.293	62	20174	10.93	ug/L	96
63) Ethyl acrylate	11.999	55	18537	10.16	ug/L	98
64) trichloroethene	11.994	95	17024	10.32	ug/L	98
65) tert-Amyl Ethyl Ether	12.130	87	23301	11.91	ug/L	99
66) methyl methacrylate	12.271	69	10399	10.27	ug/L	95
67) 2-nitropropane	13.181	46	920	11.53	ug/L #	61
68) 2-chloroethyl vinyl ether	12.826	63	32212	54.60	ug/L	98
69) 1,2-dichloropropane	12.277	63	15134	10.47	ug/L	98
70) dibromomethane	12.454	93	9721	10.78	ug/L	96
71) methylcyclohexane	12.188	83	26359	10.68	ug/L	96
72) bromodichloromethane	12.590	83	22011	10.86	ug/L	99
73) cis-1,3-dichloropropene	13.061	75	27264	10.71	ug/L	97
75) 4-methyl-2-pentanone	13.150	58	6166	11.27	ug/L	96
76) toluene	13.422	92	45370	9.67	ug/L	96
77) 3-methyl-1-butanol	13.187	55	15470	200.68	ug/L	94
78) trans-1,3-dichloropropene	13.652	75	24917	10.53	ug/L	95
79) ethyl methacrylate	13.621	69	20051	10.79	ug/L	98
80) 1,1,2-trichloroethane	13.888	83	11958	10.83	ug/L	100
81) 2-hexanone	14.050	58	6212	10.44	ug/L	94
83) tetrachloroethene	14.039	164	17187	9.93	ug/L	95
84) 1,3-dichloropropane	14.081	76	23740	10.33	ug/L	99
85) butyl acetate	14.112	56	10318	10.48	ug/L	91
86) 3,3-dimethyl-1-butanol	14.238	57	15910	103.97	ug/L	98
87) dibromochloromethane	14.364	129	19156	10.32	ug/L	99
88) 1,2-dibromoethane	14.520	107	15514	10.18	ug/L	99
89) chlorobenzene	14.996	112	51798	10.10	ug/L	100
90) 1,1,1,2-tetrachloroethane	15.059	131	18965	10.45	ug/L	98
91) ethylbenzene	15.038	91	88171	9.94	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133060.D
Acq On : 6 Feb 2013 5:28 pm
Operator : DIPAP
Sample : IC5870-10
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 12:41:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:41:40 2013
Response via : Initial Calibration

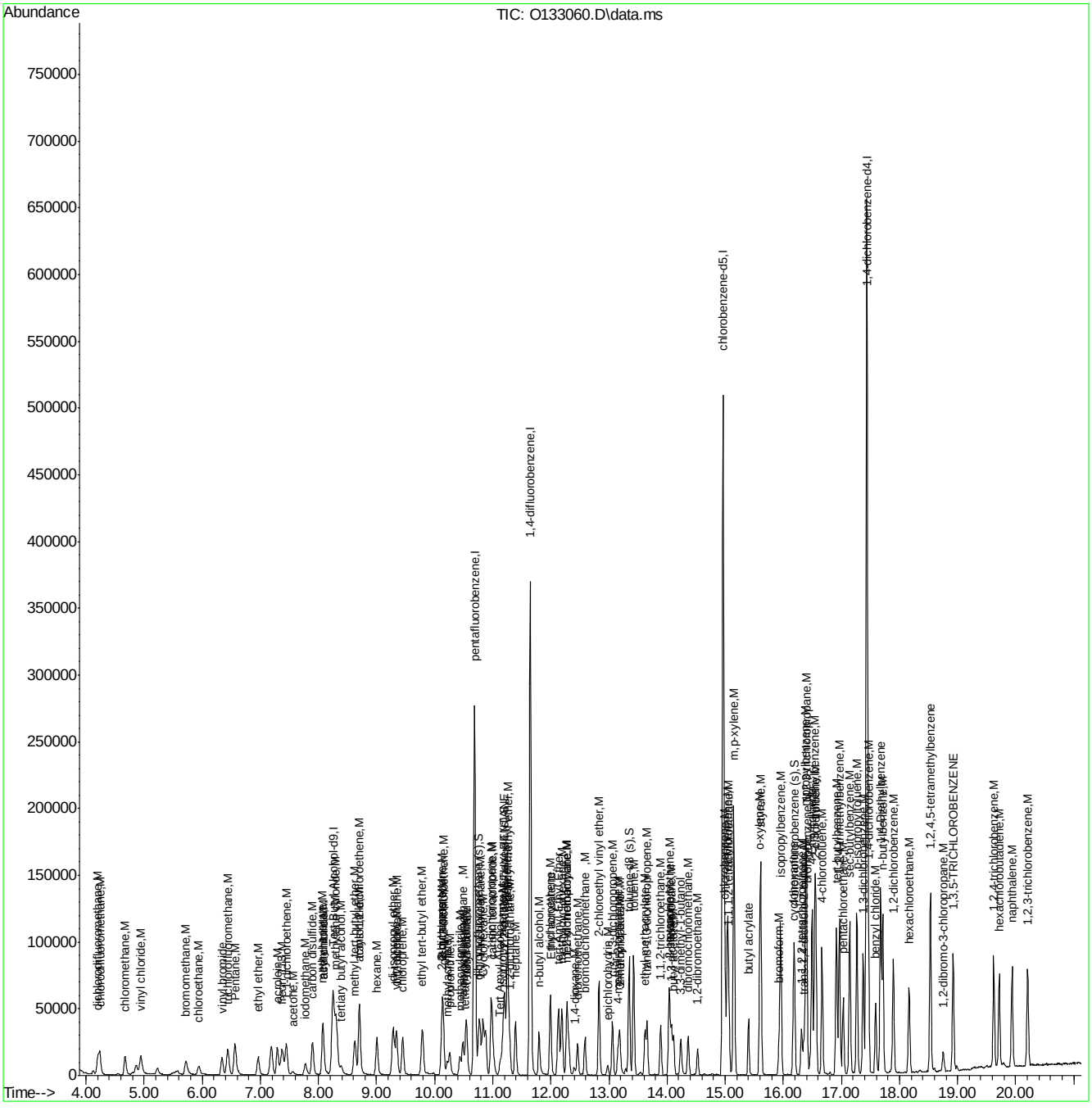
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) m,p-xylene	15.148	106	70468	19.58	ug/L	95
93) o-xylene	15.598	106	34396	9.99	ug/L	98
94) butyl acrylate	15.404	55	30164	10.73	ug/L	99
95) styrene	15.614	104	58225	10.14	ug/L	98
96) bromoform	15.927	173	14705	10.40	ug/L	97
98) isopropylbenzene	15.954	105	91542	10.15	ug/L	99
100) cyclohexanone	16.178	98	11194	68.59	ug/L	97
101) bromobenzene	16.409	156	24568	10.03	ug/L	91
102) 1,1,2,2-tetrachloroethane	16.314	83	20479	10.20	ug/L	97
103) trans-1,4-dichloro-2-b...	16.351	53	5889	10.06	ug/L	91
104) 1,2,3-trichloropropane	16.398	110	5977	10.10	ug/L	91
105) n-propylbenzene	16.388	120	24989	10.24	ug/L	99
106) 4-Ethyltoluene	16.492	105	102934	11.44	ug/L	100
107) 2-chlorotoluene	16.560	126	22426	9.93	ug/L	93
108) 4-chlorotoluene	16.665	126	23015	10.05	ug/L	97
109) 1,3,5-trimethylbenzene	16.539	105	75709	9.91	ug/L	98
110) tert-butylbenzene	16.916	119	68947	10.13	ug/L	100
111) pentachloroethane	17.031	167	15405	10.23	ug/L	96
112) 1,2,4-trimethylbenzene	16.968	105	78397	9.74	ug/L	98
113) sec-butylbenzene	17.146	105	100473	9.96	ug/L	98
114) 1,3-dichlorobenzene	17.376	146	47156	9.79	ug/L	97
115) p-isopropyltoluene	17.266	119	86329	9.99	ug/L	99
116) 1,4-dichlorobenzene	17.465	146	47816	9.49	ug/L	98
117) 1,2-dichlorobenzene	17.894	146	43659	9.78	ug/L	97
118) benzyl chloride	17.591	91	46127	10.17	ug/L	100
119) 1,4-Diethylbenzene	17.674	119	59797	11.50	ug/L	96
120) n-butylbenzene	17.716	92	44141	9.83	ug/L	100
121) 1,2-dibromo-3-chloropr...	18.746	75	4351	8.94	ug/L #	77
122) 1,3,5-TRICHLOROBENZENE	18.924	180	37071	9.75	ug/L	98
123) 1,2,4-trichlorobenzene	19.620	180	33033	9.24	ug/L	100
124) hexachlorobutadiene	19.714	225	20674	9.83	ug/L	96
125) naphthalene	19.939	128	74308	8.81	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	29959	9.24	ug/L	96
127) hexachloroethane	18.166	201	16106	10.76	ug/L	97
128) 1,2,4,5-tetramethylben...	18.532	119	88641	11.67	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133060.D
Acq On : 6 Feb 2013 5:28 pm
Operator : DIPAP
Sample : IC5870-10
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 07 12:41:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:41:40 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133061.D
Acq On : 6 Feb 2013 5:58 pm
Operator : DIPAP
Sample : IC5870-20
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 12:43:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:01 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	127956	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	243584	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	363398	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	344304	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	205084	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	80362	48.64	ug/L	0.00
Spiked Amount 50.000 Range 81 - 121 Recovery = 97.28%						
45) 1,2-dichloroethane-d4 (s)	11.199	65	85584	43.06	ug/L	0.00
Spiked Amount 50.000 Range 74 - 127 Recovery = 86.12%						
74) toluene-d8 (s)	13.349	98	325988	39.14	ug/L	0.00
Spiked Amount 50.000 Range 80 - 122 Recovery = 78.28%#						
99) 4-bromofluorobenzene (s)	16.194	95	126678	35.94	ug/L	0.00
Spiked Amount 50.000 Range 78 - 116 Recovery = 71.88%#						
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.391	59	24197	110.03	ug/L	96
4) 1,4-dioxane	12.402	88	11842	539.36	ug/L	94
6) chlorodifluoromethane	4.233	51	57098	28.55	ug/L	95
7) dichlorodifluoromethane	4.207	85	55446	22.77	ug/L	96
8) chloromethane	4.672	50	48486	21.54	ug/L	97
9) vinyl chloride	4.944	62	51284	22.44	ug/L	100
10) bromomethane	5.702	94	26340	20.67	ug/L	98
11) chloroethane	5.932	64	22886	23.29	ug/L	97
12) vinyl bromide	6.335	106	31522	23.74	ug/L	99
13) trichlorofluoromethane	6.440	101	57094	22.64	ug/L	98
14) Pentane	6.560	43	49533	21.88	ug/L	97
15) ethyl ether	6.958	74	18780	21.62	ug/L	94
16) acrolein	7.287	56	59195	223.99	ug/L	98
17) 1,1-dichloroethene	7.444	96	30684	21.46	ug/L	97
18) acetone	7.554	43	10182	19.94	ug/L	95
19) allyl chloride	8.066	76	19512	23.26	ug/L	98
20) acetonitrile	8.072	40	25787	222.30	ug/L	89
21) iodomethane	7.774	142	32989	22.01	ug/L	99
23) carbon disulfide	7.894	76	106906	21.65	ug/L	98
24) methylene chloride	8.297	84	34376	19.06	ug/L	94
25) methyl acetate	8.066	43	22872	22.28	ug/L	100
26) methyl tert butyl ether	8.626	73	87034	23.05	ug/L	100
27) trans-1,2-dichloroethene	8.705	96	33988	21.16	ug/L	98
28) di-isopropyl ether	9.285	45	95247	24.20	ug/L	97
29) 2-butanone	10.122	72	4190	21.66	ug/L #	81
30) 1,1-dichloroethane	9.343	63	55316	22.65	ug/L	97
31) chloroprene	9.447	53	46964	23.52	ug/L	99
32) acrylonitrile	8.699	53	52707	105.75	ug/L	98
33) vinyl acetate	9.332	86	5522	23.51	ug/L	90
34) ethyl tert-butyl ether	9.787	59	93149	24.46	ug/L	99
35) ethyl acetate	10.122	45	4514	23.73	ug/L	69
36) 2,2-dichloropropane	10.122	77	51077	22.29	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133061.D
Acq On : 6 Feb 2013 5:58 pm
Operator : DIPAP
Sample : IC5870-20
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 12:43:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:01 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	10.143	96	37096	22.16	ug/L	96
38) methylacrylate	10.211	85	5074	22.77	ug/L #	98
39) propionitrile	10.258	54	45545	227.60	ug/L	99
40) bromochloromethane	10.483	128	17851	22.90	ug/L	99
41) tetrahydrofuran	10.514	42	10330	20.80	ug/L	96
42) chloroform	10.540	85	38532	21.94	ug/L	95
43) t-butyl formate	10.556	59	24504	24.06	ug/L	99
46) freon 113	7.371	151	25268	22.86	ug/L	95
47) methacrylonitrile	10.431	41	16941	22.72	ug/L	99
48) 1,1,1-trichloroethane	10.781	97	54593	22.54	ug/L	95
49) Cyclohexane	10.833	84	48272	22.93	ug/L	97
51) epichlorohydrin	12.972	57	16090	110.73	ug/L	98
52) n-butyl alcohol	11.796	56	57563	1095.35	ug/L	99
53) carbon tetrachloride	10.985	117	48295	22.49	ug/L	98
54) 1,1-dichloropropene	10.969	75	46225	22.03	ug/L	99
55) Tert Amyl Alcohol	11.131	55	7283	102.58	ug/L	99
56) hexane	9.008	57	39259	19.57	ug/L	98
57) 2,2,4-TRIMETHYLPENTANE	11.205	57	111988	23.35	ug/L	99
58) benzene	11.252	78	137729	21.69	ug/L	99
59) tert-amyl methyl ether	11.257	87	22572	23.61	ug/L	97
60) heptane	11.393	57	23445	22.64	ug/L	98
61) isopropyl acetate	11.173	43	78057	22.53	ug/L	98
62) 1,2-dichloroethane	11.293	62	41298	22.47	ug/L	99
63) Ethyl acrylate	12.000	55	43219	24.08	ug/L	98
64) trichloroethene	11.989	95	35349	21.75	ug/L	98
65) tert-Amyl Ethyl Ether	12.130	87	45611	22.90	ug/L	100
66) methyl methacrylate	12.266	69	22024	22.06	ug/L	94
67) 2-nitropropane	13.176	46	1676	20.39	ug/L #	86
68) 2-chloroethyl vinyl ether	12.826	63	71233	120.96	ug/L	99
69) 1,2-dichloropropane	12.282	63	31843	22.30	ug/L	98
70) dibromomethane	12.460	93	19872	22.19	ug/L	95
71) methylcyclohexane	12.188	83	55894	22.79	ug/L	93
72) bromodichloromethane	12.591	83	45728	22.69	ug/L	98
73) cis-1,3-dichloropropene	13.056	75	56066	22.20	ug/L	97
75) 4-methyl-2-pentanone	13.155	58	12945	23.54	ug/L	96
76) toluene	13.422	92	92766	20.29	ug/L	99
77) 3-methyl-1-butanol	13.182	55	35046	463.40	ug/L	96
78) trans-1,3-dichloropropene	13.652	75	52321	22.36	ug/L	97
79) ethyl methacrylate	13.616	69	43415	23.52	ug/L	99
80) 1,1,2-trichloroethane	13.888	83	24264	22.12	ug/L	95
81) 2-hexanone	14.050	58	13016	22.11	ug/L	96
83) tetrachloroethene	14.034	164	35789	21.11	ug/L	98
84) 1,3-dichloropropane	14.081	76	48502	21.41	ug/L	99
85) butyl acetate	14.113	56	22332	22.90	ug/L	98
86) 3,3-dimethyl-1-butanol	14.238	57	34932	230.93	ug/L	98
87) dibromochloromethane	14.364	129	40287	22.02	ug/L	99
88) 1,2-dibromoethane	14.521	107	32261	21.52	ug/L	94
89) chlorobenzene	14.996	112	107729	21.38	ug/L	98
90) 1,1,1,2-tetrachloroethane	15.059	131	39666	22.13	ug/L	98
91) ethylbenzene	15.038	91	184174	21.19	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133061.D
Acq On : 6 Feb 2013 5:58 pm
Operator : DIPAP
Sample : IC5870-20
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 12:43:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:01 2013
Response via : Initial Calibration

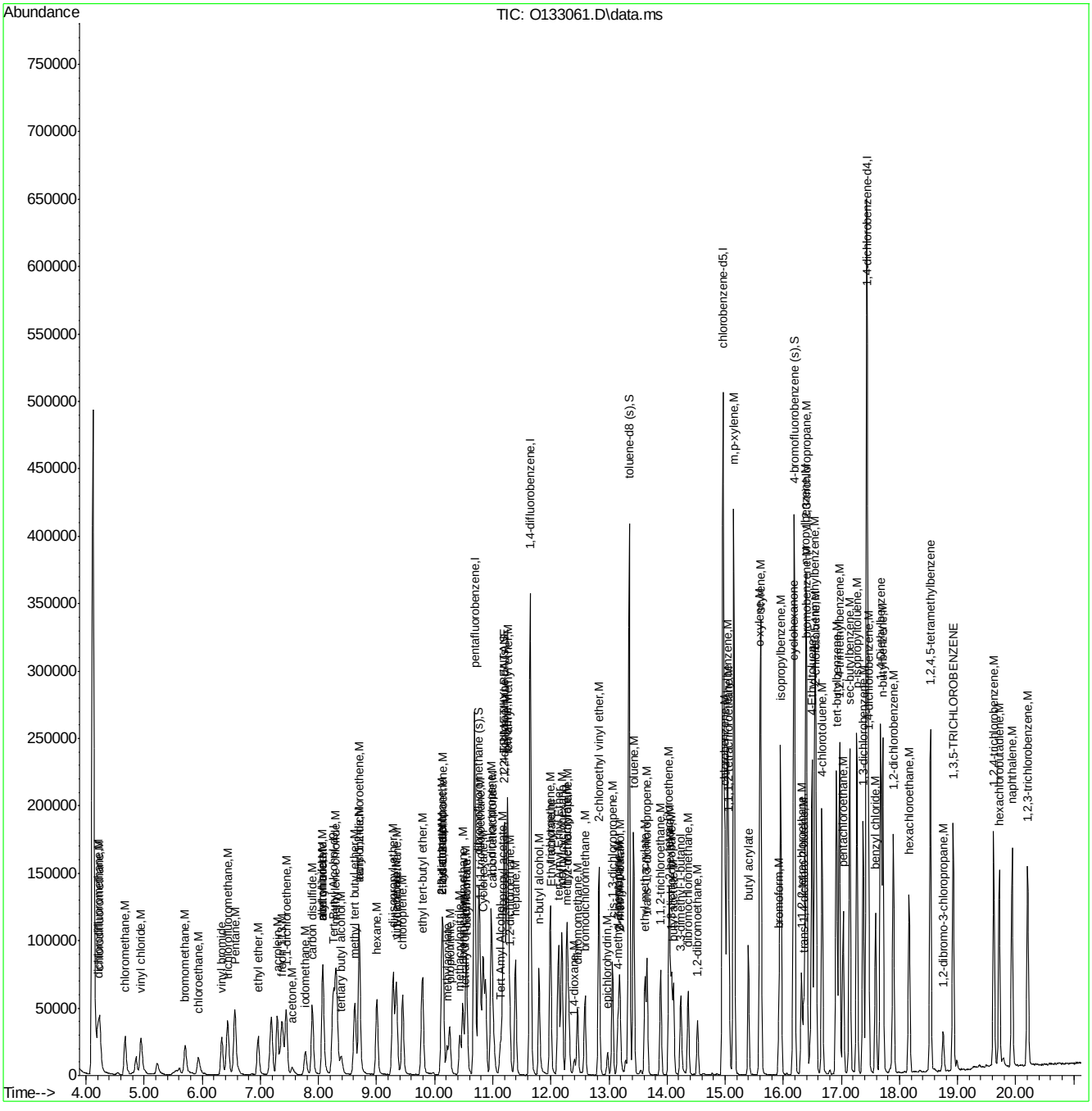
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) m,p-xylene	15.148	106	146653	41.69	ug/L	99
93) o-xylene	15.598	106	71118	21.07	ug/L	100
94) butyl acrylate	15.399	55	68843	24.66	ug/L	99
95) styrene	15.614	104	122345	21.67	ug/L	99
96) bromoform	15.927	173	30953	22.17	ug/L	100
98) isopropylbenzene	15.954	105	191979	21.62	ug/L	99
100) cyclohexanone	16.179	98	30741	214.24	ug/L	99
101) bromobenzene	16.403	156	50187	20.85	ug/L	99
102) 1,1,2,2-tetrachloroethane	16.315	83	43722	22.11	ug/L	99
103) trans-1,4-dichloro-2-b...	16.351	53	12130	21.09	ug/L	97
104) 1,2,3-trichloropropane	16.393	110	12579	21.61	ug/L	100
105) n-propylbenzene	16.388	120	51492	21.41	ug/L	99
106) 4-Ethyltoluene	16.492	105	193007	21.34	ug/L	98
107) 2-chlorotoluene	16.560	126	45993	20.76	ug/L	97
108) 4-chlorotoluene	16.670	126	48324	21.47	ug/L	94
109) 1,3,5-trimethylbenzene	16.539	105	157989	21.10	ug/L	99
110) tert-butylbenzene	16.916	119	142201	21.22	ug/L	99
111) pentachloroethane	17.031	167	32343	21.79	ug/L	96
112) 1,2,4-trimethylbenzene	16.968	105	163992	20.84	ug/L	99
113) sec-butylbenzene	17.146	105	210802	21.29	ug/L	99
114) 1,3-dichlorobenzene	17.376	146	96303	20.43	ug/L	96
115) p-isopropyltoluene	17.266	119	180615	21.29	ug/L	99
116) 1,4-dichlorobenzene	17.465	146	100109	20.40	ug/L	99
117) 1,2-dichlorobenzene	17.894	146	90776	20.78	ug/L	100
118) benzyl chloride	17.591	91	101581	22.73	ug/L	100
119) 1,4-Diethylbenzene	17.674	119	111610	21.33	ug/L	100
120) n-butylbenzene	17.716	92	91513	20.82	ug/L	99
121) 1,2-dibromo-3-chloropr...	18.752	75	8553	18.29	ug/L	99
122) 1,3,5-TRICHLOROBENZENE	18.919	180	75267	20.24	ug/L	99
123) 1,2,4-trichlorobenzene	19.620	180	69900	20.17	ug/L	99
124) hexachlorobutadiene	19.719	225	43346	21.05	ug/L	96
125) naphthalene	19.939	128	157762	19.43	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	63862	20.32	ug/L	99
127) hexachloroethane	18.166	201	33371	22.41	ug/L	97
128) 1,2,4,5-tetramethylben...	18.532	119	168352	21.96	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133061.D
Acq On : 6 Feb 2013 5:58 pm
Operator : DIPAP
Sample : IC5870-20
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 07 12:43:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:01 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133062.D
Acq On : 6 Feb 2013 6:29 pm
Operator : DIPAP
Sample : ICC5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 12:23:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 10:37:17 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.265	65	134342	500.00	ug/L	0.00
5) pentafluorobenzene	10.687	168	240215	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	360481	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	341735	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.439	152	203869	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	75717	47.48	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 94.96%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	78080	44.81	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 89.62%			
74) toluene-d8 (s)	13.349	98	309619	45.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 91.46%			
99) 4-bromofluorobenzene (s)	16.194	95	118335	44.49	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 88.98%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.396	59	57470	244.73	ug/L	100
4) 1,4-dioxane	12.402	88	29634	1282.03	ug/L	98
6) chlorodifluoromethane	4.233	51	105185	47.28	ug/L	100
7) dichlorodifluoromethane	4.207	85	129021	50.02	ug/L	100
8) chloromethane	4.672	50	116508	48.92	ug/L	100
9) vinyl chloride	4.944	62	121922	50.63	ug/L	100
10) bromomethane	5.692	94	59009	48.23	ug/L	100
11) chloroethane	5.917	64	54740	52.68	ug/L	100
12) vinyl bromide	6.330	106	72582	51.37	ug/L	100
13) trichlorofluoromethane	6.429	101	133003	49.28	ug/L	100
14) Pentane	6.555	43	116505	49.18	ug/L	100
15) ethyl ether	6.963	74	41785	47.00	ug/L	100
16) acrolein	7.287	56	143225	500.50	ug/L	100
17) 1,1-dichloroethene	7.439	96	71717	48.49	ug/L	100
18) acetone	7.554	43	23735	46.86	ug/L	100
19) allyl chloride	8.066	76	46417	52.83	ug/L	100
20) acetonitrile	8.077	40	61864	508.90	ug/L	100
21) iodomethane	7.774	142	85781	53.39	ug/L	100
23) carbon disulfide	7.894	76	250323	48.81	ug/L	100
24) methylene chloride	8.297	84	79403	44.98	ug/L	100
25) methyl acetate	8.066	43	55605	50.89	ug/L	100
26) methyl tert butyl ether	8.626	73	202458	50.66	ug/L	100
27) trans-1,2-dichloroethene	8.699	96	80572	48.81	ug/L	100
28) di-isopropyl ether	9.285	45	205771	48.98	ug/L	100
29) 2-butanone	10.122	72	10010	48.46	ug/L	100
30) 1,1-dichloroethane	9.343	63	127318	49.82	ug/L	100
31) chloroprene	9.447	53	105040	49.41	ug/L	100
32) acrylonitrile	8.699	53	131150	256.20	ug/L	100
33) vinyl acetate	9.332	86	11840	46.72	ug/L	100
34) ethyl tert-butyl ether	9.787	59	208807	49.17	ug/L	100
35) ethyl acetate	10.127	45	9976	48.88	ug/L	100
36) 2,2-dichloropropane	10.122	77	118213	49.63	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133062.D
Acq On : 6 Feb 2013 6:29 pm
Operator : DIPAP
Sample : ICC5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 12:23:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 10:37:17 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) cis-1,2-dichloroethene	10.143	96	85972	49.36 ug/L	100
38) methylacrylate	10.211	85	12593	49.24 ug/L #	100
39) propionitrile	10.258	54	112554	525.14 ug/L	100
40) bromochloromethane	10.483	128	40375	49.43 ug/L	100
41) tetrahydrofuran	10.509	42	24554	47.33 ug/L	100
42) chloroform	10.540	85	88098	48.70 ug/L	100
43) t-butyl formate	10.556	59	55514	49.72 ug/L	100
46) freon 113	7.366	151	58243	49.53 ug/L	100
47) methacrylonitrile	10.431	41	40524	51.15 ug/L	100
48) 1,1,1-trichloroethane	10.781	97	127020	50.01 ug/L	100
49) Cyclohexane	10.833	84	113239	50.33 ug/L	100
51) epichlorohydrin	12.978	57	39559	259.39 ug/L	100
52) n-butyl alcohol	11.801	56	138772	2527.73 ug/L	100
53) carbon tetrachloride	10.985	117	113324	49.66 ug/L	100
54) 1,1-dichloropropene	10.969	75	106937	49.04 ug/L	100
55) Tert Amyl Alcohol	11.137	55	17551	224.45 ug/L #	100
56) hexane	9.003	57	86961	45.39 ug/L	100
57) 2,2,4-TRIMETHYLPENTANE	11.205	57	250337	48.48 ug/L	100
58) benzene	11.252	78	316657	48.47 ug/L	100
59) tert-amyl methyl ether	11.262	87	50136	49.30 ug/L	100
60) heptane	11.393	57	52641	47.29 ug/L	100
61) isopropyl acetate	11.168	43	177165	49.01 ug/L	100
62) 1,2-dichloroethane	11.288	62	93851	49.40 ug/L	100
63) Ethyl acrylate	11.994	55	96788	50.39 ug/L	100
64) trichloroethene	11.989	95	82797	49.13 ug/L	100
65) tert-Amyl Ethyl Ether	12.130	87	108521	48.68 ug/L	100
66) methyl methacrylate	12.266	69	52140	49.80 ug/L	100
67) 2-nitropropane	13.192	46	4347	50.51 ug/L	100
68) 2-chloroethyl vinyl ether	12.826	63	161283	253.40 ug/L	100
69) 1,2-dichloropropane	12.282	63	72804	49.30 ug/L	100
70) dibromomethane	12.455	93	45392	49.01 ug/L	100
71) methylcyclohexane	12.188	83	125326	48.36 ug/L	100
72) bromodichloromethane	12.591	83	105444	49.94 ug/L	100
73) cis-1,3-dichloropropene	13.056	75	130302	49.64 ug/L	100
75) 4-methyl-2-pentanone	13.150	58	30825	50.18 ug/L	100
76) toluene	13.422	92	216005	46.83 ug/L	100
77) 3-methyl-1-butanol	13.187	55	83047	1031.35 ug/L	100
78) trans-1,3-dichloropropene	13.652	75	119651	49.32 ug/L	100
79) ethyl methacrylate	13.616	69	99970	51.04 ug/L	100
80) 1,1,2-trichloroethane	13.888	83	56795	49.80 ug/L	100
81) 2-hexanone	14.050	58	31531	50.93 ug/L	100
83) tetrachloroethene	14.039	164	83070	47.93 ug/L	100
84) 1,3-dichloropropane	14.076	76	112342	48.75 ug/L	100
85) butyl acetate	14.107	56	50974	50.34 ug/L	100
86) 3,3-dimethyl-1-butanol	14.238	57	83289	518.84 ug/L	100
87) dibromochloromethane	14.364	129	92861	49.18 ug/L	100
88) 1,2-dibromoethane	14.526	107	74289	48.39 ug/L	100
89) chlorobenzene	14.997	112	248555	48.13 ug/L	100
90) 1,1,1,2-tetrachloroethane	15.065	131	90851	49.03 ug/L	100
91) ethylbenzene	15.038	91	427153	47.92 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133062.D
Acq On : 6 Feb 2013 6:29 pm
Operator : DIPAP
Sample : ICC5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 12:23:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 10:37:17 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
92)	m,p-xylene	15.148	106	339764	95.18 ug/L	100
93)	o-xylene	15.598	106	164940	48.05 ug/L	100
94)	butyl acrylate	15.399	55	156276	52.86 ug/L	100
95)	styrene	15.614	104	284796	49.02 ug/L	100
96)	bromoform	15.928	173	72139	50.02 ug/L	100
98)	isopropylbenzene	15.954	105	449695	47.87 ug/L	100
100)	cyclohexanone	16.179	98	68075	468.17 ug/L	100
101)	bromobenzene	16.403	156	117105	47.14 ug/L	100
102)	1,1,2,2-tetrachloroethane	16.315	83	101479	49.24 ug/L	100
103)	trans-1,4-dichloro-2-b...	16.351	53	29816	49.40 ug/L	100
104)	1,2,3-trichloropropane	16.393	110	29895	49.25 ug/L	100
105)	n-propylbenzene	16.388	120	122958	48.71 ug/L	100
106)	4-Ethyltoluene	16.492	105	458120	48.80 ug/L	100
107)	2-chlorotoluene	16.560	126	107457	47.32 ug/L	100
108)	4-chlorotoluene	16.665	126	112252	48.02 ug/L	100
109)	1,3,5-trimethylbenzene	16.539	105	372427	47.69 ug/L	100
110)	tert-butylbenzene	16.916	119	334774	47.88 ug/L	100
111)	pentachloroethane	17.031	167	76154	49.26 ug/L	100
112)	1,2,4-trimethylbenzene	16.968	105	384579	47.66 ug/L	100
113)	sec-butylbenzene	17.146	105	496500	48.26 ug/L	100
114)	1,3-dichlorobenzene	17.376	146	224504	47.04 ug/L	100
115)	p-isopropyltoluene	17.266	119	425131	48.47 ug/L	100
116)	1,4-dichlorobenzene	17.465	146	231044	46.81 ug/L	100
117)	1,2-dichlorobenzene	17.894	146	210752	47.64 ug/L	100
118)	benzyl chloride	17.591	91	224677	48.58 ug/L	100
119)	1,4-Diethylbenzene	17.674	119	267105	49.53 ug/L	100
120)	n-butylbenzene	17.716	92	217503	48.38 ug/L	100
121)	1,2-dibromo-3-chloropr...	18.752	75	21094	45.67 ug/L	100
122)	1,3,5-TRICHLOROBENZENE	18.924	180	178657	47.32 ug/L	100
123)	1,2,4-trichlorobenzene	19.620	180	163431	46.55 ug/L	100
124)	hexachlorobutadiene	19.719	225	102754	47.91 ug/L	100
125)	naphthalene	19.939	128	373172	45.68 ug/L	100
126)	1,2,3-trichlorobenzene	20.206	180	149038	46.86 ug/L	100
127)	hexachloroethane	18.166	201	79495	50.30 ug/L	100
128)	1,2,4,5-tetramethylben...	18.532	119	400827	49.95 ug/L	100

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

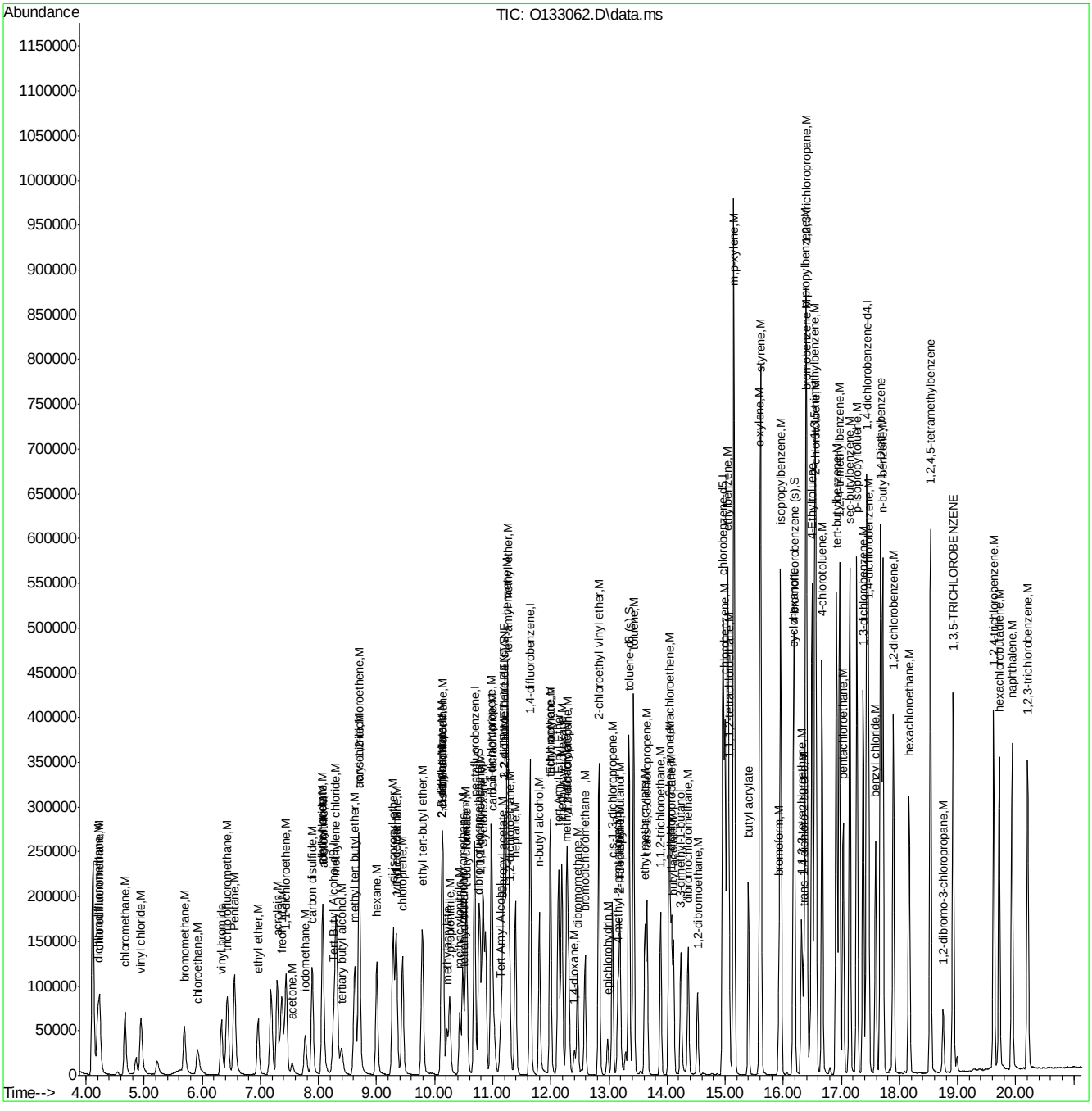
7.7.30

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133062.D
Acq On : 6 Feb 2013 6:29 pm
Operator : DIPAP
Sample : ICC5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 07 12:23:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 10:37:17 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133063.D
Acq On : 6 Feb 2013 6:59 pm
Operator : DIPAP
Sample : IC5870-100
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 12:44:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:52 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.281	65	137051	500.00	ug/L	0.02
5) pentafluorobenzene	10.687	168	229864	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	345048	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	329816	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	184868	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	160033	103.05	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 206.10%#			
45) 1,2-dichloroethane-d4 (s)	11.199	65	163259	88.80	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 177.60%#			
74) toluene-d8 (s)	13.349	98	668349	87.22	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 174.44%#			
99) 4-bromofluorobenzene (s)	16.194	95	246352	80.78	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 161.56%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.412	59	120295	502.31	ug/L	63
4) 1,4-dioxane	12.413	88	56717	2365.28	ug/L	98
6) chlorodifluoromethane	4.238	51	220088	105.37	ug/L	98
7) dichlorodifluoromethane	4.217	85	287760	122.80	ug/L	100
8) chloromethane	4.672	50	256438	119.43	ug/L	98
9) vinyl chloride	4.949	62	271769	123.84	ug/L	99
10) bromomethane	5.692	94	113656	94.00	ug/L	99
11) chloroethane	5.906	64	117012	122.82	ug/L	97
12) vinyl bromide	6.319	106	160378	124.68	ug/L	100
13) trichlorofluoromethane	6.419	101	304230	125.08	ug/L	98
14) Pentane	6.544	43	258731	119.26	ug/L	100
15) ethyl ether	6.963	74	88220	105.90	ug/L	95
16) acrolein	7.292	56	316994	1241.32	ug/L	100
17) 1,1-dichloroethene	7.439	96	158594	116.33	ug/L	97
18) acetone	7.549	43	50433	104.73	ug/L	98
19) allyl chloride	8.066	76	96828	119.08	ug/L	92
20) acetonitrile	8.077	40	128498	1148.23	ug/L	89
21) iodomethane	7.768	142	184343	127.12	ug/L	97
23) carbon disulfide	7.888	76	557043	118.16	ug/L	99
24) methylene chloride	8.296	84	169242	100.60	ug/L	98
25) methyl acetate	8.066	43	120369	121.47	ug/L	99
26) methyl tert butyl ether	8.626	73	442920	121.67	ug/L	100
27) trans-1,2-dichloroethene	8.699	96	175066	114.55	ug/L	99
28) di-isopropyl ether	9.285	45	444750	116.27	ug/L	98
29) 2-butanone	10.122	72	22551	121.02	ug/L	99
30) 1,1-dichloroethane	9.342	63	277874	118.32	ug/L	99
31) chloroprene	9.447	53	233431	120.34	ug/L	98
32) acrylonitrile	8.699	53	288522	604.76	ug/L	98
33) vinyl acetate	9.327	86	26566	114.81	ug/L	97
34) ethyl tert-butyl ether	9.787	59	455921	122.34	ug/L	99
35) ethyl acetate	10.127	45	21494	114.39	ug/L	84
36) 2,2-dichloropropane	10.122	77	257295	117.08	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133063.D
Acq On : 6 Feb 2013 6:59 pm
Operator : DIPAP
Sample : IC5870-100
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 12:44:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:52 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	10.143	96	187665	117.01	ug/L		100
38) methylacrylate	10.211	85	26951	124.70	ug/L	#	96
39) propionitrile	10.263	54	244866	1267.52	ug/L		99
40) bromochloromethane	10.483	128	88618	118.02	ug/L		100
41) tetrahydrofuran	10.514	42	53515	113.44	ug/L		99
42) chloroform	10.540	85	189354	112.71	ug/L		97
43) t-butyl formate	10.551	59	122735	122.73	ug/L		100
46) freon 113	7.365	151	128583	120.40	ug/L		95
47) methacrylonitrile	10.436	41	87388	121.46	ug/L		97
48) 1,1,1-trichloroethane	10.781	97	279393	120.06	ug/L		98
49) Cyclohexane	10.833	84	248223	121.96	ug/L		97
51) epichlorohydrin	12.978	57	84226	599.72	ug/L		98
52) n-butyl alcohol	11.816	56	281298	5506.16	ug/L		98
53) carbon tetrachloride	10.985	117	246700	118.89	ug/L		99
54) 1,1-dichloropropene	10.969	75	234405	115.96	ug/L		99
55) Tert Amyl Alcohol	11.147	55	42448	625.63	ug/L		82
56) hexane	9.003	57	189547	99.89	ug/L		99
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	546604	117.24	ug/L		99
58) benzene	11.252	78	682805	111.88	ug/L		100
59) tert-amyl methyl ether	11.262	87	108701	116.27	ug/L		95
60) heptane	11.393	57	115856	115.63	ug/L		98
61) isopropyl acetate	11.173	43	382682	113.91	ug/L		98
62) 1,2-dichloroethane	11.293	62	198009	111.50	ug/L		97
63) Ethyl acrylate	11.994	55	213692	121.27	ug/L		100
64) trichloroethene	11.989	95	180760	115.71	ug/L		99
65) tert-Amyl Ethyl Ether	12.130	87	233964	120.81	ug/L		99
66) methyl methacrylate	12.271	69	113033	117.24	ug/L		99
67) 2-nitropropane	13.192	46	9162	116.80	ug/L	#	68
68) 2-chloroethyl vinyl ether	12.826	63	350591	605.83	ug/L		99
69) 1,2-dichloropropane	12.282	63	154727	112.26	ug/L		100
70) dibromomethane	12.454	93	97277	112.64	ug/L		96
71) methylcyclohexane	12.188	83	276823	116.17	ug/L		99
72) bromodichloromethane	12.590	83	226340	116.05	ug/L		98
73) cis-1,3-dichloropropene	13.056	75	279111	114.61	ug/L		98
75) 4-methyl-2-pentanone	13.155	58	66935	124.50	ug/L		98
76) toluene	13.422	92	465910	107.10	ug/L		98
77) 3-methyl-1-butanol	13.192	55	172671	2330.72	ug/L		96
78) trans-1,3-dichloropropene	13.652	75	254309	112.56	ug/L		96
79) ethyl methacrylate	13.621	69	216675	120.59	ug/L		99
80) 1,1,2-trichloroethane	13.888	83	120937	114.36	ug/L		100
81) 2-hexanone	14.050	58	69415	122.06	ug/L		97
83) tetrachloroethene	14.039	164	180865	110.48	ug/L		98
84) 1,3-dichloropropane	14.076	76	235418	107.38	ug/L		99
85) butyl acetate	14.112	56	107911	112.80	ug/L		93
86) 3,3-dimethyl-1-butanol	14.243	57	175884	1183.31	ug/L		99
87) dibromochloromethane	14.364	129	198853	111.84	ug/L		100
88) 1,2-dibromoethane	14.526	107	160225	110.36	ug/L		97
89) chlorobenzene	14.996	112	538340	110.43	ug/L		99
90) 1,1,1,2-tetrachloroethane	15.064	131	195877	112.36	ug/L		98
91) ethylbenzene	15.038	91	934071	111.24	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133063.D
Acq On : 6 Feb 2013 6:59 pm
Operator : DIPAP
Sample : IC5870-100
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 12:44:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:52 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) m,p-xylene	15.148	106	737631	217.59	ug/L	98
93) o-xylene	15.598	106	355527	109.14	ug/L	99
94) butyl acrylate	15.404	55	333094	120.55	ug/L	99
95) styrene	15.614	104	615424	112.44	ug/L	99
96) bromoform	15.927	173	154569	113.82	ug/L	98
98) isopropylbenzene	15.954	105	972676	120.12	ug/L	100
100) cyclohexanone	16.184	98	132686	1007.90	ug/L	99
101) bromobenzene	16.409	156	247066	113.18	ug/L	92
102) 1,1,2,2-tetrachloroethane	16.314	83	207757	114.81	ug/L	96
103) trans-1,4-dichloro-2-b...	16.351	53	63701	121.90	ug/L	95
104) 1,2,3-trichloropropane	16.398	110	62551	117.86	ug/L	93
105) n-propylbenzene	16.393	120	259803	118.63	ug/L	96
106) 4-Ethyltoluene	16.497	105	957401	116.30	ug/L	100
107) 2-chlorotoluene	16.565	126	224245	111.70	ug/L	91
108) 4-chlorotoluene	16.670	126	229859	111.92	ug/L	98
109) 1,3,5-trimethylbenzene	16.539	105	795954	116.99	ug/L	98
110) tert-butylbenzene	16.916	119	719537	118.10	ug/L	99
111) pentachloroethane	17.031	167	155730	114.92	ug/L	98
112) 1,2,4-trimethylbenzene	16.968	105	794627	111.35	ug/L	98
113) sec-butylbenzene	17.146	105	1039037	115.34	ug/L	99
114) 1,3-dichlorobenzene	17.376	146	456374	107.08	ug/L	99
115) p-isopropyltoluene	17.266	119	878529	113.83	ug/L	99
116) 1,4-dichlorobenzene	17.465	146	461494	104.02	ug/L	98
117) 1,2-dichlorobenzene	17.894	146	416456	105.16	ug/L	100
118) benzyl chloride	17.591	91	449110	109.02	ug/L	100
119) 1,4-Diethylbenzene	17.680	119	539709	113.35	ug/L	99
120) n-butylbenzene	17.716	92	439403	110.25	ug/L	99
121) 1,2-dibromo-3-chloropr...	18.752	75	42692	102.74	ug/L	100
122) 1,3,5-TRICHLOROBENZENE	18.924	180	361967	107.80	ug/L	99
123) 1,2,4-trichlorobenzene	19.620	180	331657	106.03	ug/L	98
124) hexachlorobutadiene	19.719	225	216541	115.80	ug/L	99
125) naphthalene	19.939	128	770667	105.74	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	299245	105.39	ug/L	98
127) hexachloroethane	18.166	201	165073	120.89	ug/L	98
128) 1,2,4,5-tetramethylben...	18.532	119	814124	116.16	ug/L	100

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

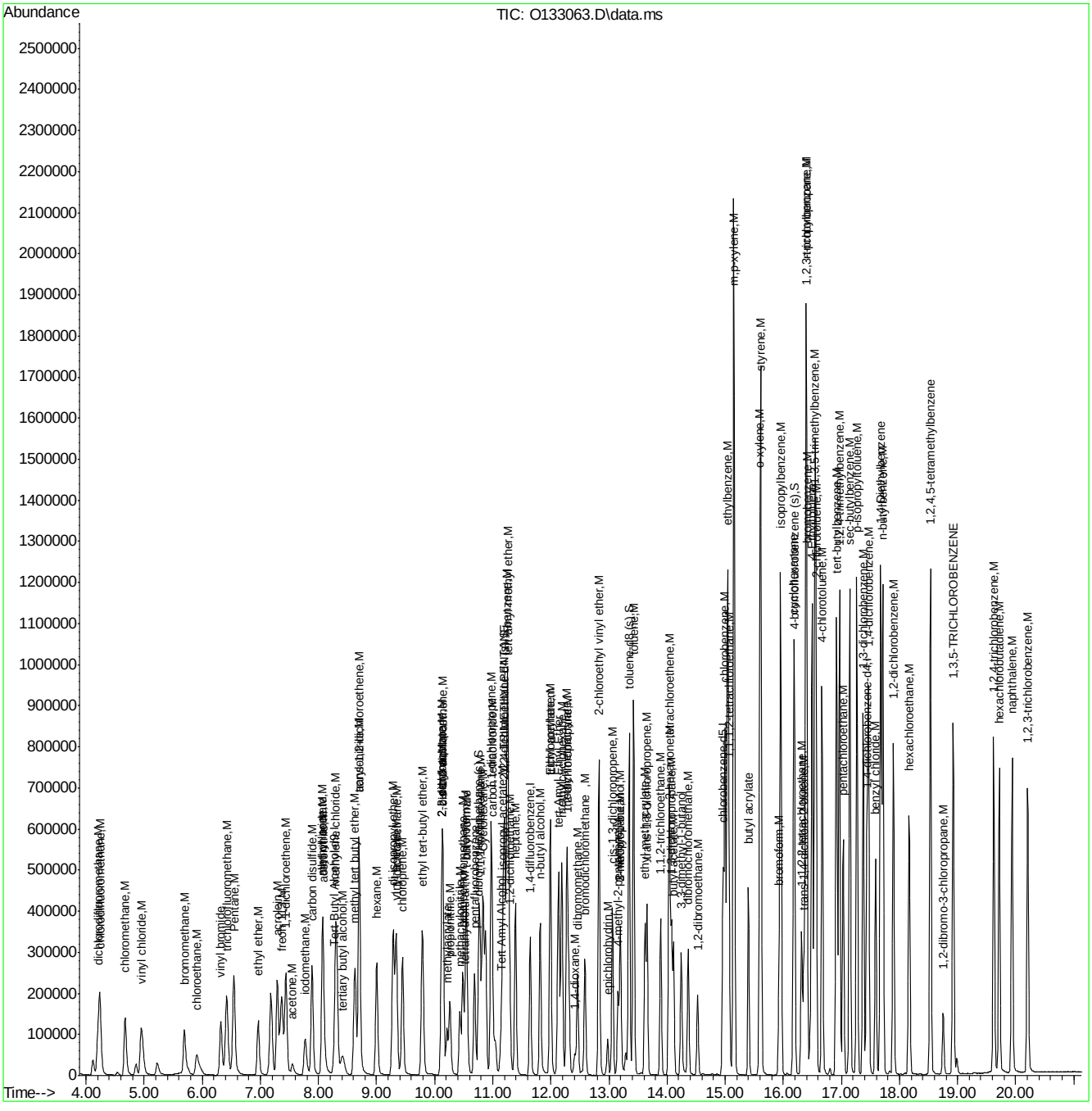
7.7.31

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133063.D
Acq On : 6 Feb 2013 6:59 pm
Operator : DIPAP
Sample : IC5870-100
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 07 12:44:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:43:52 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133064.D
Acq On : 6 Feb 2013 7:29 pm
Operator : DIPAP
Sample : IC5870-200
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 07 12:44:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:44:34 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.307	65	131427	500.00	ug/L	0.04
5) pentafluorobenzene	10.687	168	235407	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	356048	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	344792	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.439	152	180105	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	340898	213.54	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 427.08%#			
45) 1,2-dichloroethane-d4 (s)	11.199	65	341983	184.22	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 368.44%#			
74) toluene-d8 (s)	13.349	98	1405272	180.61	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 361.22%#			
99) 4-bromofluorobenzene (s)	16.194	95	507191	174.91	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 349.82%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.432	59	229256	997.61	ug/L	63
4) 1,4-dioxane	12.428	88	109788	4826.45	ug/L	99
6) chlorodifluoromethane	4.238	51	454310	210.12	ug/L	97
7) dichlorodifluoromethane	4.222	85	600757	243.40	ug/L	98
8) chloromethane	4.672	50	530412	235.48	ug/L	99
9) vinyl chloride	4.970	62	544954	235.46	ug/L	100
10) bromomethane	5.687	94	223185	181.80	ug/L	99
11) chloroethane	5.880	64	166059	164.82	ug/L	98
12) vinyl bromide	6.299	106	319508	235.29	ug/L	99
13) trichlorofluoromethane	6.398	101	619738	240.18	ug/L	99
14) Pentane	6.518	43	518757	227.24	ug/L	99
15) ethyl ether	6.968	74	186017	215.91	ug/L	94
16) acrolein	7.292	56	661544	2431.74	ug/L	99
17) 1,1-dichloroethene	7.428	96	329616	231.35	ug/L	98
18) acetone	7.564	43	97772	196.39	ug/L	99
19) allyl chloride	8.061	76	198931	232.55	ug/L #	67
20) acetonitrile	8.087	40	258541	2201.47	ug/L #	81
21) iodomethane	7.763	142	323850	206.85	ug/L	98
23) carbon disulfide	7.878	76	1147357	232.37	ug/L	99
24) methylene chloride	8.296	84	351249	203.63	ug/L	97
25) methyl acetate	8.072	43	237845	226.27	ug/L	97
26) methyl tert butyl ether	8.631	73	923518	241.18	ug/L	99
27) trans-1,2-dichloroethene	8.694	96	361815	227.04	ug/L	98
28) di-isopropyl ether	9.290	45	916326	229.24	ug/L	100
29) 2-butanone	10.127	72	44064	221.59	ug/L	94
30) 1,1-dichloroethane	9.343	63	571954	232.48	ug/L	98
31) chloroprene	9.442	53	471177	230.48	ug/L	98
32) acrylonitrile	8.704	53	578879	1137.15	ug/L	98
33) vinyl acetate	9.332	86	54050	221.53	ug/L	93
34) ethyl tert-butyl ether	9.792	59	954277	242.30	ug/L	99
35) ethyl acetate	10.127	45	42055	212.44	ug/L	66
36) 2,2-dichloropropane	10.122	77	523962	227.95	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133064.D
Acq On : 6 Feb 2013 7:29 pm
Operator : DIPAP
Sample : IC5870-200
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 07 12:44:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:44:34 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) cis-1,2-dichloroethene	10.143	96	388754	231.75 ug/L	98
38) methylacrylate	10.216	85	56609	245.65 ug/L #	96
39) propionitrile	10.268	54	484972	2361.06 ug/L	100
40) bromochloromethane	10.483	128	182765	232.44 ug/L	99
41) tetrahydrofuran	10.514	42	106263	215.81 ug/L	97
42) chloroform	10.540	85	394173	225.51 ug/L	99
43) t-butyl formate	10.556	59	256273	241.09 ug/L	98
46) freon 113	7.350	151	268208	238.29 ug/L	94
47) methacrylonitrile	10.436	41	179013	235.72 ug/L	98
48) 1,1,1-trichloroethane	10.781	97	571482	233.93 ug/L	99
49) Cyclohexane	10.828	84	518272	241.09 ug/L	97
51) epichlorohydrin	12.983	57	161743	1085.18 ug/L	99
52) n-butyl alcohol	11.848	56	564287	10491.76 ug/L	98
53) carbon tetrachloride	10.980	117	496271	226.42 ug/L	99
54) 1,1-dichloropropene	10.969	75	472750	222.20 ug/L	100
56) hexane	8.997	57	399829	204.23 ug/L	98
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	1139691	231.90 ug/L	93
58) benzene	11.252	78	1389790	217.46 ug/L	99
59) tert-amyl methyl ether	11.262	87	225090	228.02 ug/L	93
60) heptane	11.388	57	243197	230.72 ug/L	98
61) isopropyl acetate	11.178	43	762877	215.78 ug/L	97
62) 1,2-dichloroethane	11.293	62	403747	217.21 ug/L	97
63) Ethyl acrylate	11.999	55	412248	220.04 ug/L	100
64) trichloroethene	11.989	95	366455	222.95 ug/L	98
65) tert-Amyl Ethyl Ether	12.130	87	477452	232.02 ug/L	99
66) methyl methacrylate	12.271	69	227334	223.02 ug/L	98
67) 2-nitropropane	13.208	46	18346	219.29 ug/L #	86
68) 2-chloroethyl vinyl ether	12.826	63	722718	1174.77 ug/L	99
69) 1,2-dichloropropane	12.282	63	315206	218.29 ug/L	98
70) dibromomethane	12.460	93	198347	219.11 ug/L	97
71) methylcyclohexane	12.188	83	573535	227.99 ug/L	99
72) bromodichloromethane	12.591	83	469070	228.49 ug/L	97
73) cis-1,3-dichloropropene	13.061	75	573103	223.97 ug/L	98
75) 4-methyl-2-pentanone	13.155	58	133032	231.69 ug/L	98
76) toluene	13.427	92	954420	210.75 ug/L	100
77) 3-methyl-1-butanol	13.213	55	341629	4348.99 ug/L	97
78) trans-1,3-dichloropropene	13.657	75	524945	221.70 ug/L	98
79) ethyl methacrylate	13.621	69	439133	230.90 ug/L	99
80) 1,1,2-trichloroethane	13.888	83	250335	225.37 ug/L	100
81) 2-hexanone	14.055	58	131007	216.42 ug/L	97
83) tetrachloroethene	14.039	164	373577	215.46 ug/L	99
84) 1,3-dichloropropane	14.081	76	484616	209.52 ug/L	99
85) butyl acetate	14.113	56	208951	205.17 ug/L	91
86) 3,3-dimethyl-1-butanol	14.254	57	359058	2251.77 ug/L	99
87) dibromochloromethane	14.364	129	410847	217.81 ug/L	100
88) 1,2-dibromoethane	14.526	107	328124	213.42 ug/L	95
89) chlorobenzene	14.996	112	1117811	216.52 ug/L	100
90) 1,1,1,2-tetrachloroethane	15.064	131	404297	218.46 ug/L	98
91) ethylbenzene	15.038	91	1947638	218.80 ug/L	100
92) m,p-xylene	15.153	106	1500266	418.73 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133064.D
Acq On : 6 Feb 2013 7:29 pm
Operator : DIPAP
Sample : IC5870-200
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 07 12:44:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:44:34 2013
Response via : Initial Calibration

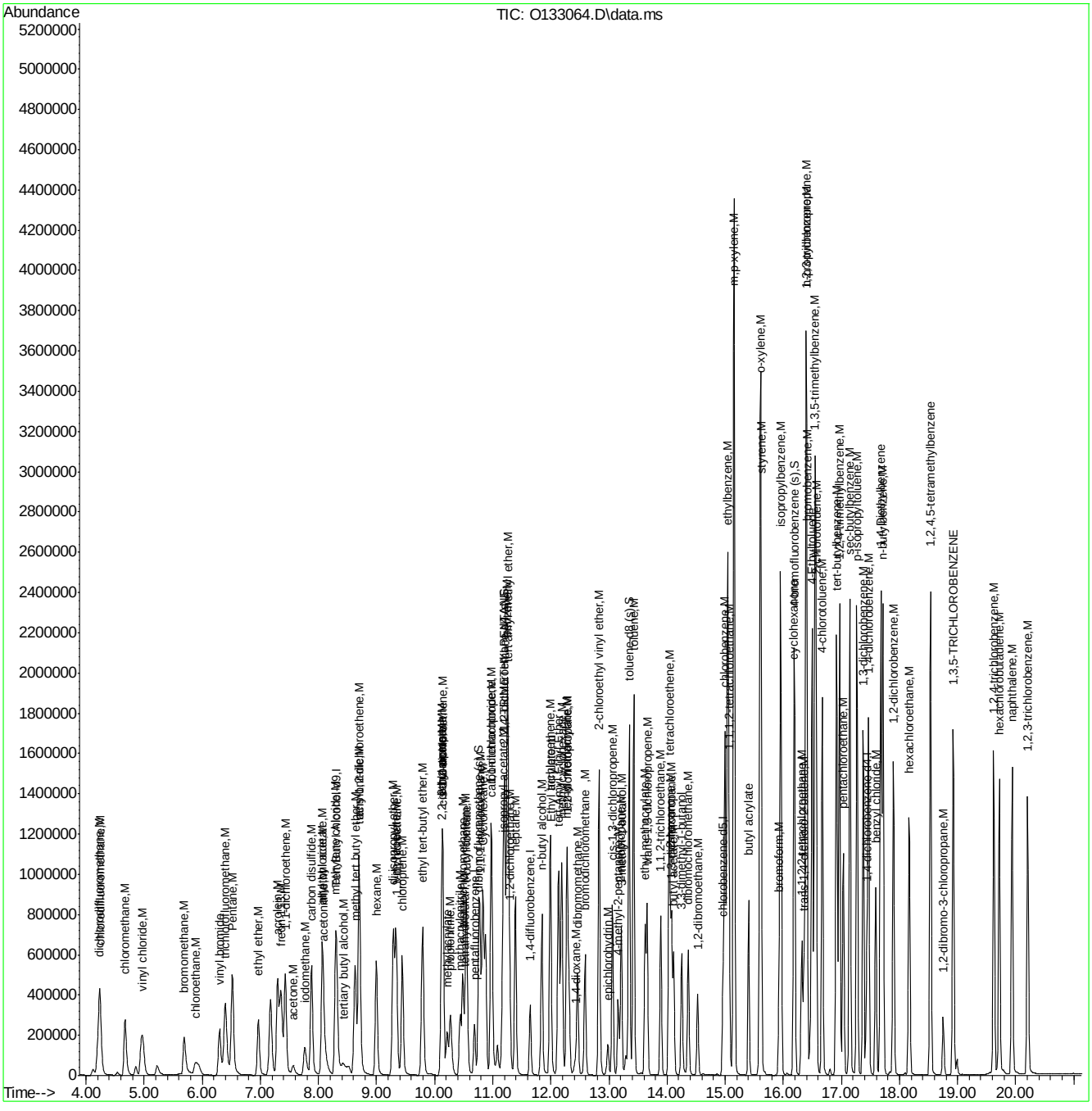
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) o-xylene	15.603	106	723632	210.09	ug/L	98
94) butyl acrylate	15.404	55	628705	212.20	ug/L	99
95) styrene	15.619	104	1253745	215.75	ug/L	97
96) bromoform	15.927	173	308556	213.65	ug/L	98
98) isopropylbenzene	15.954	105	1997659	247.01	ug/L	100
100) cyclohexanone	16.184	98	232772	1812.06	ug/L	98
101) bromobenzene	16.409	156	491296	227.27	ug/L	99
102) 1,1,2,2-tetrachloroethane	16.320	83	404379	225.20	ug/L	99
103) trans-1,4-dichloro-2-b...	16.356	53	122824	234.83	ug/L	97
104) 1,2,3-trichloropropane	16.398	110	119494	226.06	ug/L	94
105) n-propylbenzene	16.393	120	520533	238.42	ug/L	100
106) 4-Ethyltoluene	16.497	105	1834553	224.17	ug/L	100
107) 2-chlorotoluene	16.566	126	436081	219.74	ug/L	99
108) 4-chlorotoluene	16.670	126	448812	220.56	ug/L	98
109) 1,3,5-trimethylbenzene	16.545	105	1588697	234.70	ug/L	98
110) tert-butylbenzene	16.916	119	1406418	231.70	ug/L	99
111) pentachloroethane	17.036	167	306851	228.17	ug/L	99
112) 1,2,4-trimethylbenzene	16.968	105	1550849	219.94	ug/L	98
113) sec-butylbenzene	17.146	105	2048820	229.05	ug/L	99
114) 1,3-dichlorobenzene	17.376	146	887831	211.95	ug/L	99
115) p-isopropyltoluene	17.266	119	1709839	223.54	ug/L	99
116) 1,4-dichlorobenzene	17.465	146	898263	206.77	ug/L	99
117) 1,2-dichlorobenzene	17.899	146	821530	211.57	ug/L	99
118) benzyl chloride	17.596	91	845520	207.99	ug/L	99
119) 1,4-Diethylbenzene	17.680	119	1030230	218.44	ug/L	99
120) n-butylbenzene	17.716	92	856842	217.88	ug/L	99
121) 1,2-dibromo-3-chloropr...	18.752	75	83943	206.55	ug/L	96
122) 1,3,5-TRICHLOROBENZENE	18.924	180	719322	217.77	ug/L	100
123) 1,2,4-trichlorobenzene	19.625	180	669657	218.10	ug/L	99
124) hexachlorobutadiene	19.719	225	438087	235.81	ug/L	98
125) naphthalene	19.939	128	1549471	216.66	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	602227	216.25	ug/L	98
127) hexachloroethane	18.166	201	328929	240.97	ug/L	98
128) 1,2,4,5-tetramethylben...	18.532	119	1616255	232.02	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133064.D
Acq On : 6 Feb 2013 7:29 pm
Operator : DIPAP
Sample : IC5870-200
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 07 12:44:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:44:34 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133069.D
Acq On : 7 Feb 2013 10:01 am
Operator : DIPAP
Sample : ICV5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 07 16:56:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:53:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.265	65	132698	500.00	ug/L	0.00
5) pentafluorobenzene	10.687	168	221431	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	339687	50.00	ug/L	0.00
82) chlorobenzene-d5	14.965	117	318584	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.439	152	188544	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.760	113	74727	49.39	ug/L	0.00
Spiked Amount 50.000	Range 81 - 121		Recovery = 98.78%			
45) 1,2-dichloroethane-d4 (s)	11.199	65	76669	47.74	ug/L	0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 95.48%			
74) toluene-d8 (s)	13.349	98	313184	49.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 122		Recovery = 98.18%			
99) 4-bromofluorobenzene (s)	16.194	95	117122	47.61	ug/L	0.00
Spiked Amount 50.000	Range 78 - 116		Recovery = 95.22%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.401	59	60963	262.82	ug/L	97
4) 1,4-dioxane	12.402	88	27712	1213.61	ug/L	98
6) chlorodifluoromethane	4.243	51	93691	44.44	ug/L	98
7) dichlorodifluoromethane	4.212	85	141410	59.48	ug/L	97
8) chloromethane	4.677	50	131028	59.68	ug/L	98
9) vinyl chloride	4.944	62	129719	58.44	ug/L	97
10) bromomethane	5.697	94	58640	51.36	ug/L	99
11) chloroethane	5.927	64	58029	62.61	ug/L	97
12) vinyl bromide	6.335	106	76337	58.61	ug/L	99
13) trichlorofluoromethane	6.434	101	148654	59.75	ug/L	98
14) Pentane	6.555	43	122445	56.07	ug/L	99
15) ethyl ether	6.963	74	42230	51.53	ug/L	98
16) acrolein	7.292	56	163717	620.64	ug/L	96
17) 1,1-dichloroethene	7.444	96	74715	54.80	ug/L	97
18) acetone	7.548	43	23248	49.79	ug/L	98
19) allyl chloride	8.071	76	42653	51.95	ug/L	95
20) acetonitrile	8.077	40	59455	530.58	ug/L	92
21) iodomethane	7.773	142	84607	57.12	ug/L	97
23) carbon disulfide	7.894	76	255890	54.12	ug/L	99
24) methylene chloride	8.302	84	80762	49.63	ug/L	96
25) methyl acetate	8.071	43	51254	50.88	ug/L	97
26) methyl tert butyl ether	8.626	73	395275	107.29	ug/L	100
27) trans-1,2-dichloroethene	8.704	96	82749	54.39	ug/L	98
28) di-isopropyl ether	9.285	45	200415	52.45	ug/L	99
29) 2-butanone	10.122	72	10633	55.84	ug/L #	74
30) 1,1-dichloroethane	9.348	63	132115	56.08	ug/L	98
31) chloroprene	9.447	53	100457	51.26	ug/L	99
32) acrylonitrile	8.699	53	139464	284.75	ug/L	99
33) vinyl acetate	9.332	86	12604	53.95	ug/L	86
34) ethyl tert-butyl ether	9.787	59	195632	51.45	ug/L	99
35) ethyl acetate	10.127	45	9945	52.86	ug/L	88
36) 2,2-dichloropropane	10.127	77	119939	54.62	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133069.D
Acq On : 7 Feb 2013 10:01 am
Operator : DIPAP
Sample : ICV5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 07 16:56:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:53:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	10.148	96	88488	55.11	ug/L	98
38) methylacrylate	10.216	85	12817	57.26	ug/L #	99
39) propionitrile	10.258	54	119229	603.48	ug/L	99
40) bromochloromethane	10.488	128	40739	54.11	ug/L	97
41) tetrahydrofuran	10.509	42	26201	56.02	ug/L	97
42) chloroform	10.545	85	88654	53.17	ug/L	98
43) t-butyl formate	10.556	59	56026	54.44	ug/L	99
46) freon 113	7.371	151	59253	54.66	ug/L	95
47) methacrylonitrile	10.436	41	40867	55.96	ug/L	99
48) 1,1,1-trichloroethane	10.781	97	129781	55.43	ug/L	99
49) Cyclohexane	10.833	84	119912	57.82	ug/L	100
51) epichlorohydrin	12.977	57	39991	278.27	ug/L	98
52) n-butyl alcohol	11.801	56	139843	2703.17	ug/L	99
53) carbon tetrachloride	10.985	117	113325	53.41	ug/L	100
54) 1,1-dichloropropene	10.969	75	110610	53.83	ug/L	98
55) Tert Amyl Alcohol	11.131	55	37121	529.16	ug/L	82
56) hexane	9.008	57	64901	35.95	ug/L	99
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	223609	46.86	ug/L	96
58) benzene	11.251	78	326317	53.00	ug/L	99
59) tert-amyl methyl ether	11.262	87	46885	48.93	ug/L	93
60) heptane	11.393	57	45373	44.36	ug/L	96
61) isopropyl acetate	11.168	43	184268	54.10	ug/L	97
62) 1,2-dichloroethane	11.293	62	93096	52.00	ug/L	96
63) Ethyl acrylate	11.999	55	96569	53.36	ug/L	99
64) trichloroethene	11.989	95	86061	54.19	ug/L	98
65) tert-Amyl Ethyl Ether	12.130	87	213317	106.53	ug/L	99
66) methyl methacrylate	12.271	69	54762	55.51	ug/L	97
67) 2-nitropropane	13.187	46	4323	53.31	ug/L	97
68) 2-chloroethyl vinyl ether	12.826	63	167238	278.84	ug/L	99
69) 1,2-dichloropropane	12.282	63	73206	52.60	ug/L	99
70) dibromomethane	12.454	93	46623	53.42	ug/L	98
71) methylcyclohexane	12.188	83	121393	49.71	ug/L	98
72) bromodichloromethane	12.590	83	107309	53.94	ug/L	97
73) cis-1,3-dichloropropene	13.061	75	124909	50.49	ug/L	100
75) 4-methyl-2-pentanone	13.150	58	31937	57.17	ug/L	98
76) toluene	13.427	92	218414	50.25	ug/L	99
77) 3-methyl-1-butanol	13.181	55	80930	1066.58	ug/L	96
78) trans-1,3-dichloropropene	13.657	75	118507	51.83	ug/L	98
79) ethyl methacrylate	13.621	69	94718	51.32	ug/L	99
80) 1,1,2-trichloroethane	13.887	83	57739	53.73	ug/L	96
81) 2-hexanone	14.055	58	32177	55.15	ug/L	94
83) tetrachloroethene	14.039	164	84569	52.34	ug/L	99
84) 1,3-dichloropropane	14.081	76	111185	51.75	ug/L	98
85) butyl acetate	14.112	56	50711	53.72	ug/L	96
86) 3,3-dimethyl-1-butanol	14.238	57	101884	680.80	ug/L	98
87) dibromochloromethane	14.363	129	90171	51.23	ug/L	100
88) 1,2-dibromoethane	14.526	107	74160	51.82	ug/L	95
89) chlorobenzene	14.996	112	251173	52.18	ug/L	99
90) 1,1,1,2-tetrachloroethane	15.064	131	91257	52.83	ug/L	97
91) ethylbenzene	15.038	91	434088	52.23	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133069.D
Acq On : 7 Feb 2013 10:01 am
Operator : DIPAP
Sample : ICV5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 07 16:56:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:53:50 2013
Response via : Initial Calibration

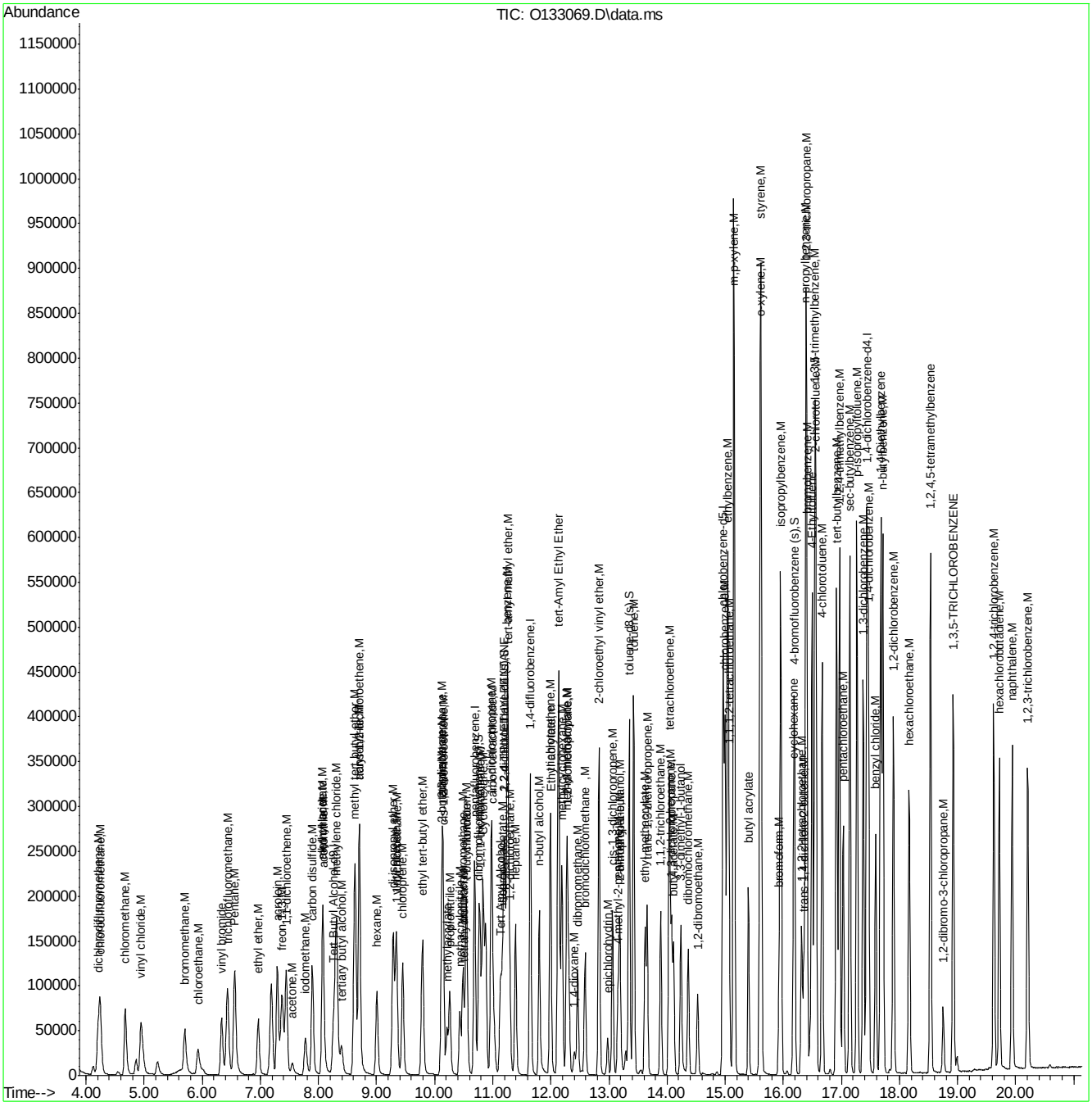
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) m,p-xylene	15.153	106	344127	103.41	ug/L	98
93) o-xylene	15.603	106	167956	52.48	ug/L	99
94) butyl acrylate	15.399	55	152425	55.30	ug/L	100
95) styrene	15.613	104	284958	52.61	ug/L	99
96) bromoform	15.927	173	71516	53.19	ug/L	97
98) isopropylbenzene	15.953	105	454397	52.30	ug/L	99
100) cyclohexanone	16.178	98	43266	330.49	ug/L	99
101) bromobenzene	16.408	156	117751	51.26	ug/L	92
102) 1,1,2,2-tetrachloroethane	16.314	83	98043	51.44	ug/L	98
103) trans-1,4-dichloro-2-b...	16.351	53	29674	53.17	ug/L	93
104) 1,2,3-trichloropropane	16.398	110	29431	52.43	ug/L	95
105) n-propylbenzene	16.388	120	127764	54.73	ug/L	98
106) 4-Ethyltoluene	16.497	105	452118	52.07	ug/L	100
107) 2-chlorotoluene	16.560	126	108759	51.78	ug/L	96
108) 4-chlorotoluene	16.670	126	111772	51.80	ug/L	98
109) 1,3,5-trimethylbenzene	16.544	105	381189	52.78	ug/L	100
110) tert-butylbenzene	16.916	119	346008	53.51	ug/L	99
111) pentachloroethane	17.031	167	76205	53.29	ug/L	96
112) 1,2,4-trimethylbenzene	16.968	105	394154	52.81	ug/L	99
113) sec-butylbenzene	17.146	105	509009	53.49	ug/L	99
114) 1,3-dichlorobenzene	17.376	146	227928	51.63	ug/L	99
115) p-isopropyltoluene	17.266	119	450362	55.52	ug/L	99
116) 1,4-dichlorobenzene	17.465	146	231155	50.64	ug/L	97
117) 1,2-dichlorobenzene	17.894	146	209349	51.17	ug/L	99
118) benzyl chloride	17.591	91	235717	55.11	ug/L	100
119) 1,4-Diethylbenzene	17.679	119	270470	54.23	ug/L	98
120) n-butylbenzene	17.716	92	221493	53.27	ug/L	99
121) 1,2-dibromo-3-chloropr...	18.752	75	21082	49.35	ug/L	96
122) 1,3,5-TRICHLOROBENZENE	18.924	180	175552	50.27	ug/L	99
123) 1,2,4-trichlorobenzene	19.620	180	168050	51.76	ug/L	97
124) hexachlorobutadiene	19.719	225	102451	51.65	ug/L	98
125) naphthalene	19.939	128	363254	49.92	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	146316	49.74	ug/L	98
127) hexachloroethane	18.166	201	81086	55.48	ug/L	99
128) 1,2,4,5-tetramethylben...	18.537	119	395202	53.25	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133069.D
Acq On : 7 Feb 2013 10:01 am
Operator : DIPAP
Sample : ICV5870-50
Misc : MS41527,VO5870,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 07 16:56:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:53:50 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133442.D
Acq On : 25 Feb 2013 1:00 pm
Operator : DIPAP
Sample : CC5870-20
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 26 11:38:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	113468	500.00	ug/L	-0.01
5) pentafluorobenzene	10.681	168	226138	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	303272	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	288884	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	180854	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	72326	46.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.62%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	81437	49.65	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.30%			
74) toluene-d8 (s)	13.344	98	297546	52.24	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 104.48%			
99) 4-bromofluorobenzene (s)	16.189	95	117379	49.74	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.48%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.385	59	19439	98.01	ug/L	96
4) 1,4-dioxane	12.397	88	8753	448.29	ug/L	99
6) chlorodifluoromethane	4.238	51	30560	14.58	ug/L	99
7) dichlorodifluoromethane	4.206	85	40378	16.63	ug/L	99
8) chloromethane	4.677	50	35134	15.67	ug/L	97
9) vinyl chloride	4.944	62	36345	16.03	ug/L	100
10) bromomethane	5.728	94	22398	19.21	ug/L	99
11) chloroethane	5.943	64	17582	18.57	ug/L	99
13) trichlorofluoromethane	6.445	101	46216	18.19	ug/L	99
15) ethyl ether	6.963	74	16766	20.03	ug/L	98
16) acrolein	7.287	56	43499	161.47	ug/L	98
17) 1,1-dichloroethene	7.444	96	26407	18.96	ug/L	96
18) acetone	7.548	43	7999	16.78	ug/L	99
19) allyl chloride	8.072	76	16749	19.98	ug/L	96
20) acetonitrile	8.077	40	19893	173.83	ug/L	92
21) iodomethane	7.773	142	32639	21.58	ug/L	97
23) carbon disulfide	7.899	76	91212	18.89	ug/L	100
24) methylene chloride	8.296	84	28699	17.27	ug/L	99
25) methyl acetate	8.066	43	18072	17.57	ug/L	92
26) methyl tert butyl ether	8.626	73	79647	21.17	ug/L	96
27) trans-1,2-dichloroethene	8.704	96	29917	19.25	ug/L	96
28) di-isopropyl ether	9.280	45	74872	19.19	ug/L	97
29) 2-butanone	10.122	72	3312	17.03	ug/L #	58
30) 1,1-dichloroethane	9.342	63	47094	19.57	ug/L	98
31) chloroprene	9.447	53	35273	17.63	ug/L	95
32) acrylonitrile	8.694	53	44255	88.48	ug/L	99
33) vinyl acetate	9.337	86	4384	18.37	ug/L	64
34) ethyl tert-butyl ether	9.787	59	75344	19.40	ug/L	98
35) ethyl acetate	10.127	45	3328	17.32	ug/L	89
36) 2,2-dichloropropane	10.122	77	43854	19.56	ug/L	99
37) cis-1,2-dichloroethene	10.143	96	31704	19.33	ug/L	98
38) methylacrylate	10.211	85	4286	18.75	ug/L #	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133442.D
Acq On : 25 Feb 2013 1:00 pm
Operator : DIPAP
Sample : CC5870-20
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 26 11:38:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) propionitrile	10.253	54	36581	181.30	ug/L		97
40) bromochloromethane	10.483	128	15977	20.78	ug/L		93
41) tetrahydrofuran	10.509	42	8750	18.32	ug/L		99
42) chloroform	10.545	85	32795	19.26	ug/L		99
43) t-butyl formate	10.551	59	20613	19.61	ug/L		99
46) freon 113	7.371	151	21019	18.99	ug/L		94
47) methacrylonitrile	10.430	41	14145	18.97	ug/L		97
48) 1,1,1-trichloroethane	10.776	97	46816	19.58	ug/L		97
49) Cyclohexane	10.833	84	41458	19.57	ug/L		96
51) epichlorohydrin	12.972	57	12661	98.68	ug/L		99
52) n-butyl alcohol	11.790	56	43040	931.86	ug/L		99
53) carbon tetrachloride	10.980	117	41622	21.97	ug/L		99
54) 1,1-dichloropropene	10.969	75	38439	20.95	ug/L		98
56) hexane	9.008	57	25383	15.75	ug/L		98
57) 2,2,4-TRIMETHYLPENTANE	11.199	57	84185	19.76	ug/L		98
58) benzene	11.251	78	115541	21.02	ug/L		100
59) tert-amyl methyl ether	11.257	87	19064	22.28	ug/L		90
60) heptane	11.387	57	16995	18.61	ug/L		95
61) isopropyl acetate	11.168	43	58177	19.13	ug/L		97
62) 1,2-dichloroethane	11.288	62	36136	22.61	ug/L		99
64) trichloroethene	11.984	95	30681	21.64	ug/L		98
66) methyl methacrylate	12.266	69	18423	20.92	ug/L		91
67) 2-nitropropane	13.181	46	1456	20.11	ug/L	#	85
68) 2-chloroethyl vinyl ether	12.821	63	59248	110.65	ug/L		99
69) 1,2-dichloropropane	12.277	63	27088	21.80	ug/L		96
70) dibromomethane	12.454	93	17066	21.90	ug/L		87
71) methylcyclohexane	12.182	83	42212	19.36	ug/L		99
72) bromodichloromethane	12.585	83	39909	22.47	ug/L		99
73) cis-1,3-dichloropropene	13.056	75	48727	22.06	ug/L		99
75) 4-methyl-2-pentanone	13.150	58	10980	22.01	ug/L		99
76) toluene	13.422	92	78578	20.25	ug/L		97
77) 3-methyl-1-butanol	13.181	55	27215	401.73	ug/L		97
78) trans-1,3-dichloropropene	13.652	75	46313	22.69	ug/L		99
79) ethyl methacrylate	13.616	69	36486	22.14	ug/L		96
80) 1,1,2-trichloroethane	13.882	83	21074	21.96	ug/L		98
81) 2-hexanone	14.050	58	10744	20.63	ug/L		98
83) tetrachloroethene	14.034	164	32386	22.10	ug/L		97
84) 1,3-dichloropropane	14.076	76	42145	21.63	ug/L		99
85) butyl acetate	14.112	56	17893	20.90	ug/L		98
86) 3,3-dimethyl-1-butanol	14.233	57	27581	203.25	ug/L		96
87) dibromochloromethane	14.358	129	36211	22.69	ug/L		97
88) 1,2-dibromoethane	14.520	107	28147	21.69	ug/L		96
89) chlorobenzene	14.996	112	93740	21.47	ug/L		97
90) 1,1,1,2-tetrachloroethane	15.059	131	35548	22.69	ug/L		95
91) ethylbenzene	15.038	91	155509	20.64	ug/L		98
92) m,p-xylene	15.148	106	127511	42.26	ug/L		93
93) o-xylene	15.598	106	61603	21.23	ug/L		97
95) styrene	15.614	104	105749	21.53	ug/L		98
96) bromoform	15.927	173	28143	23.08	ug/L		99
98) isopropylbenzene	15.953	105	161707	19.41	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133442.D
Acq On : 25 Feb 2013 1:00 pm
Operator : DIPAP
Sample : CC5870-20
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 26 11:38:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) cyclohexanone	16.178	98	20169	149.30	ug/L	94
101) bromobenzene	16.403	156	45774	20.77	ug/L	97
102) 1,1,2,2-tetrachloroethane	16.309	83	36546	19.99	ug/L	99
103) trans-1,4-dichloro-2-b...	16.351	53	10785	20.14	ug/L	96
104) 1,2,3-trichloropropane	16.393	110	10742	19.95	ug/L	98
105) n-propylbenzene	16.388	120	44459	19.86	ug/L	90
107) 2-chlorotoluene	16.560	126	40711	20.21	ug/L	89
108) 4-chlorotoluene	16.665	126	42685	20.62	ug/L	94
109) 1,3,5-trimethylbenzene	16.539	105	137616	19.86	ug/L	98
110) tert-butylbenzene	16.916	119	124343	20.05	ug/L	98
111) pentachloroethane	17.031	167	30015	21.88	ug/L	98
112) 1,2,4-trimethylbenzene	16.963	105	140239	19.59	ug/L	100
113) sec-butylbenzene	17.141	105	176873	19.38	ug/L	100
114) 1,3-dichlorobenzene	17.371	146	87033	20.55	ug/L	98
115) p-isopropyltoluene	17.266	119	153449	19.72	ug/L	98
116) 1,4-dichlorobenzene	17.460	146	89327	20.40	ug/L	100
117) 1,2-dichlorobenzene	17.894	146	81777	20.84	ug/L	98
118) benzyl chloride	17.591	91	83866	20.44	ug/L	98
120) n-butylbenzene	17.711	92	74754	18.74	ug/L	96
121) 1,2-dibromo-3-chloropr...	18.752	75	7213	17.60	ug/L	97
122) 1,3,5-TRICHLOROBENZENE	18.919	180	71861	21.45	ug/L	99
123) 1,2,4-trichlorobenzene	19.620	180	66951	21.50	ug/L	95
124) hexachlorobutadiene	19.714	225	38862	20.43	ug/L	98
125) naphthalene	19.934	128	141626	20.29	ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	62093	22.01	ug/L	98
127) hexachloroethane	18.161	201	30098	21.47	ug/L	97

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

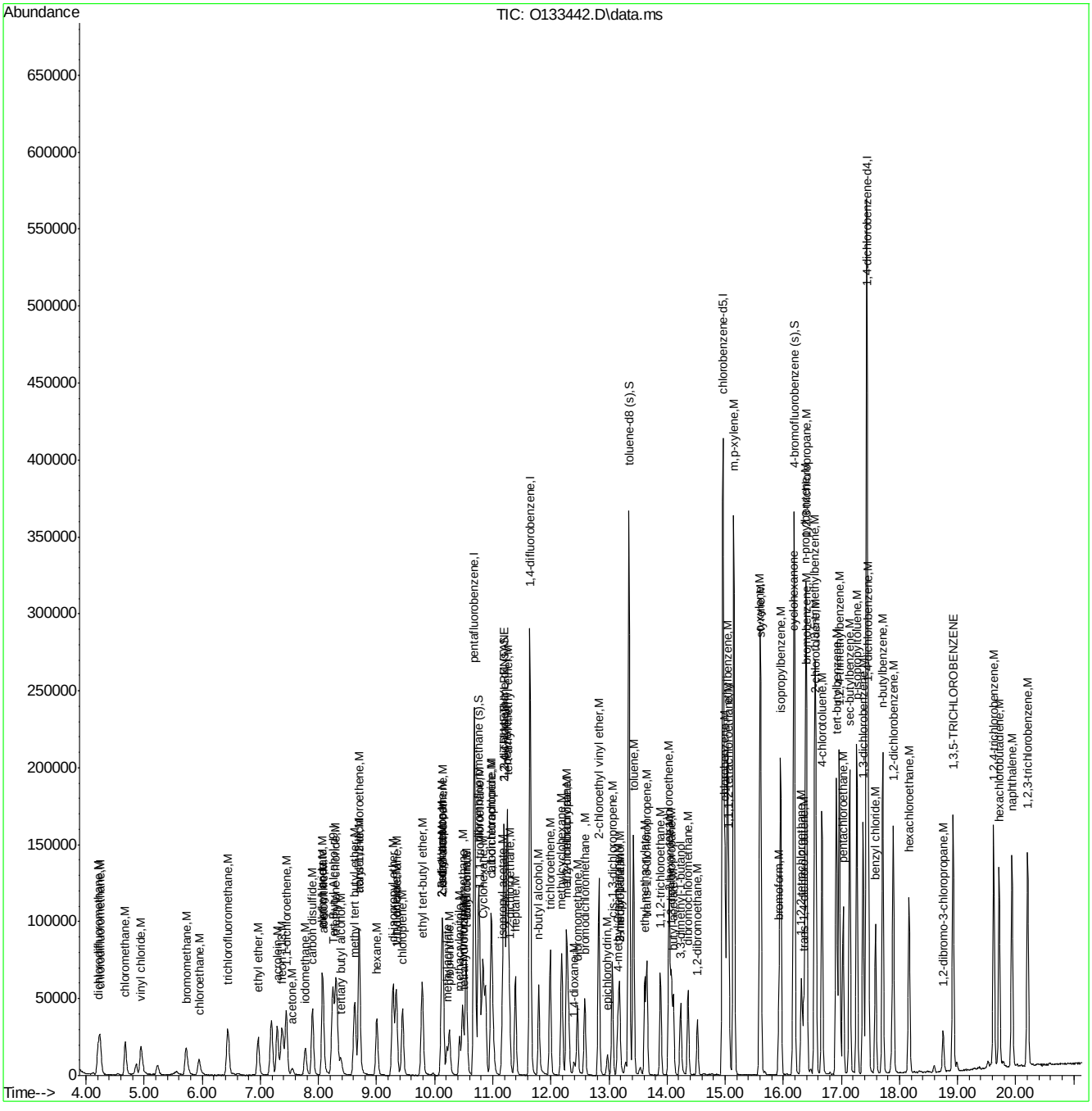
7.7.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133442.D
Acq On : 25 Feb 2013 1:00 pm
Operator : DIPAP
Sample : CC5870-20
Misc : MS43731,VO5887,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 26 11:38:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133462.D
Acq On : 26 Feb 2013 12:19 am
Operator : DIPAP
Sample : cc5870-50
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 12:04:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.255	65	107487	500.00	ug/L	-0.01
5) pentafluorobenzene	10.687	168	207707	50.00	ug/L	0.00
50) 1,4-difluorobenzene	11.644	114	286762	50.00	ug/L	0.00
82) chlorobenzene-d5	14.960	117	278710	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	17.434	152	174487	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.755	113	69431	48.92	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.84%			
45) 1,2-dichloroethane-d4 (s)	11.194	65	78533	52.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 104.26%			
74) toluene-d8 (s)	13.344	98	285349	52.98	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.96%			
99) 4-bromofluorobenzene (s)	16.189	95	113961	50.06	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.12%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.385	59	46825	249.22	ug/L	98
4) 1,4-dioxane	12.402	88	22169	1198.58	ug/L	94
6) chlorodifluoromethane	4.238	51	75545	38.28	ug/L	98
7) dichlorodifluoromethane	4.206	85	106230	47.63	ug/L	99
8) chloromethane	4.672	50	93885	45.59	ug/L	99
9) vinyl chloride	4.944	62	95873	46.04	ug/L	100
10) bromomethane	5.702	94	56541	52.80	ug/L	97
11) chloroethane	5.932	64	47558	54.70	ug/L	99
13) trichlorofluoromethane	6.434	101	125964	53.97	ug/L	99
15) ethyl ether	6.957	74	38886	50.58	ug/L	96
16) acrolein	7.287	56	105707	427.21	ug/L	97
17) 1,1-dichloroethene	7.444	96	64773	50.64	ug/L	99
18) acetone	7.548	43	20228	46.19	ug/L	96
19) allyl chloride	8.071	76	39103	50.78	ug/L	95
20) acetonitrile	8.071	40	48678	463.11	ug/L #	80
21) iodomethane	7.773	142	79460	57.19	ug/L	97
23) carbon disulfide	7.894	76	223331	50.36	ug/L	100
24) methylene chloride	8.296	84	70429	46.14	ug/L	99
25) methyl acetate	8.061	43	45204	47.84	ug/L	99
26) methyl tert butyl ether	8.626	73	197114	57.04	ug/L	100
27) trans-1,2-dichloroethene	8.699	96	73496	51.50	ug/L	98
28) di-isopropyl ether	9.280	45	186201	51.95	ug/L	99
29) 2-butanone	10.117	72	8615	48.23	ug/L #	88
30) 1,1-dichloroethane	9.342	63	116145	52.56	ug/L	99
31) chloroprene	9.447	53	86930	47.29	ug/L	98
32) acrylonitrile	8.699	53	107590	234.18	ug/L	97
33) vinyl acetate	9.327	86	10173	46.42	ug/L	95
34) ethyl tert-butyl ether	9.787	59	192659	54.01	ug/L	99
35) ethyl acetate	10.127	45	8247	46.73	ug/L	81
36) 2,2-dichloropropane	10.122	77	107039	51.97	ug/L	99
37) cis-1,2-dichloroethene	10.143	96	79447	52.75	ug/L	97
38) methylacrylate	10.211	85	11166	53.18	ug/L #	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133462.D
Acq On : 26 Feb 2013 12:19 am
Operator : DIPAP
Sample : cc5870-50
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 12:04:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	10.252	54	88885	479.62	ug/L	97
40) bromochloromethane	10.477	128	40396	57.20	ug/L	95
41) tetrahydrofuran	10.509	42	21155	48.22	ug/L	97
42) chloroform	10.540	85	81473	52.09	ug/L	99
43) t-butyl formate	10.556	59	53492	55.41	ug/L	99
46) freon 113	7.371	151	51654	50.80	ug/L	98
47) methacrylonitrile	10.430	41	34694	50.65	ug/L	96
48) 1,1,1-trichloroethane	10.775	97	118501	53.96	ug/L	99
49) Cyclohexane	10.833	84	103764	53.34	ug/L	97
51) epichlorohydrin	12.972	57	30427	250.80	ug/L	98
52) n-butyl alcohol	11.795	56	109858	2515.49	ug/L	98
53) carbon tetrachloride	10.979	117	106902	59.68	ug/L	97
54) 1,1-dichloropropene	10.969	75	95673	55.15	ug/L	99
56) hexane	9.008	57	60244	39.53	ug/L	98
57) 2,2,4-TRIMETHYLPENTANE	11.204	57	207621	51.54	ug/L	99
58) benzene	11.246	78	283914	54.63	ug/L	100
59) tert-amyl methyl ether	11.262	87	48694	60.19	ug/L	92
60) heptane	11.387	57	41898	48.52	ug/L	94
61) isopropyl acetate	11.168	43	143793	50.01	ug/L	99
62) 1,2-dichloroethane	11.288	62	90040	59.58	ug/L	97
64) trichloroethene	11.989	95	75323	56.18	ug/L	97
66) methyl methacrylate	12.266	69	45911	55.13	ug/L	92
67) 2-nitropropane	13.181	46	3529	51.55	ug/L #	62
68) 2-chloroethyl vinyl ether	12.826	63	160141	316.29	ug/L	99
69) 1,2-dichloropropane	12.282	63	66283	56.42	ug/L	97
70) dibromomethane	12.454	93	42811	58.10	ug/L	92
71) methylcyclohexane	12.188	83	103384	50.15	ug/L	99
72) bromodichloromethane	12.585	83	97480	58.04	ug/L	96
73) cis-1,3-dichloropropene	13.056	75	118942	56.96	ug/L	99
75) 4-methyl-2-pentanone	13.150	58	26257	55.68	ug/L	91
76) toluene	13.422	92	195206	53.20	ug/L	98
77) 3-methyl-1-butanol	13.181	55	67762	1057.86	ug/L	95
78) trans-1,3-dichloropropene	13.652	75	111300	57.67	ug/L	99
79) ethyl methacrylate	13.616	69	92707	59.50	ug/L	98
80) 1,1,2-trichloroethane	13.882	83	52557	57.93	ug/L	98
81) 2-hexanone	14.050	58	26837	54.49	ug/L	97
83) tetrachloroethene	14.039	164	82375	58.27	ug/L	98
84) 1,3-dichloropropane	14.076	76	103553	55.09	ug/L	98
85) butyl acetate	14.112	56	44580	53.98	ug/L	92
86) 3,3-dimethyl-1-butanol	14.233	57	69522	531.01	ug/L	99
87) dibromochloromethane	14.358	129	90324	58.66	ug/L	98
88) 1,2-dibromoethane	14.520	107	70594	56.38	ug/L	96
89) chlorobenzene	14.996	112	233093	55.35	ug/L	97
90) 1,1,1,2-tetrachloroethane	15.059	131	89113	58.96	ug/L	95
91) ethylbenzene	15.038	91	388074	53.38	ug/L	97
92) m,p-xylene	15.148	106	313295	107.62	ug/L	99
93) o-xylene	15.598	106	153532	54.84	ug/L	98
95) styrene	15.613	104	265176	55.96	ug/L	99
96) bromoform	15.927	173	71682	60.94	ug/L	99
98) isopropylbenzene	15.953	105	411030	51.12	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133462.D
Acq On : 26 Feb 2013 12:19 am
Operator : DIPAP
Sample : cc5870-50
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 12:04:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) cyclohexanone	16.178	98	57894	487.66 ug/L	95
101) bromobenzene	16.403	156	115100	54.14 ug/L	95
102) 1,1,2,2-tetrachloroethane	16.314	83	90834	51.49 ug/L	98
103) trans-1,4-dichloro-2-b...	16.351	53	26094	50.52 ug/L	95
104) 1,2,3-trichloropropane	16.393	110	27149	52.26 ug/L	93
105) n-propylbenzene	16.388	120	111289	51.52 ug/L	92
107) 2-chlorotoluene	16.560	126	100815	51.87 ug/L	89
108) 4-chlorotoluene	16.665	126	104808	52.49 ug/L	93
109) 1,3,5-trimethylbenzene	16.539	105	346995	51.91 ug/L	99
110) tert-butylbenzene	16.916	119	315590	52.74 ug/L	98
111) pentachloroethane	17.031	167	72747	54.97 ug/L	97
112) 1,2,4-trimethylbenzene	16.963	105	346482	50.17 ug/L	99
113) sec-butylbenzene	17.141	105	451608	51.29 ug/L	100
114) 1,3-dichlorobenzene	17.371	146	210691	51.57 ug/L	99
115) p-isopropyltoluene	17.266	119	385484	51.35 ug/L	100
116) 1,4-dichlorobenzene	17.460	146	216006	51.13 ug/L	100
117) 1,2-dichlorobenzene	17.894	146	203911	53.86 ug/L	98
118) benzyl chloride	17.591	91	176301	44.54 ug/L	99
120) n-butylbenzene	17.711	92	182721	47.49 ug/L	99
121) 1,2-dibromo-3-chloropr...	18.746	75	18374	46.48 ug/L	99
122) 1,3,5-TRICHLOROBENZENE	18.919	180	171360	53.02 ug/L	99
123) 1,2,4-trichlorobenzene	19.620	180	160325	53.36 ug/L	99
124) hexachlorobutadiene	19.714	225	101605	55.35 ug/L	98
125) naphthalene	19.934	128	351324	52.17 ug/L	99
126) 1,2,3-trichlorobenzene	20.206	180	151003	55.47 ug/L	99
127) hexachloroethane	18.161	201	77907	57.60 ug/L	98

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

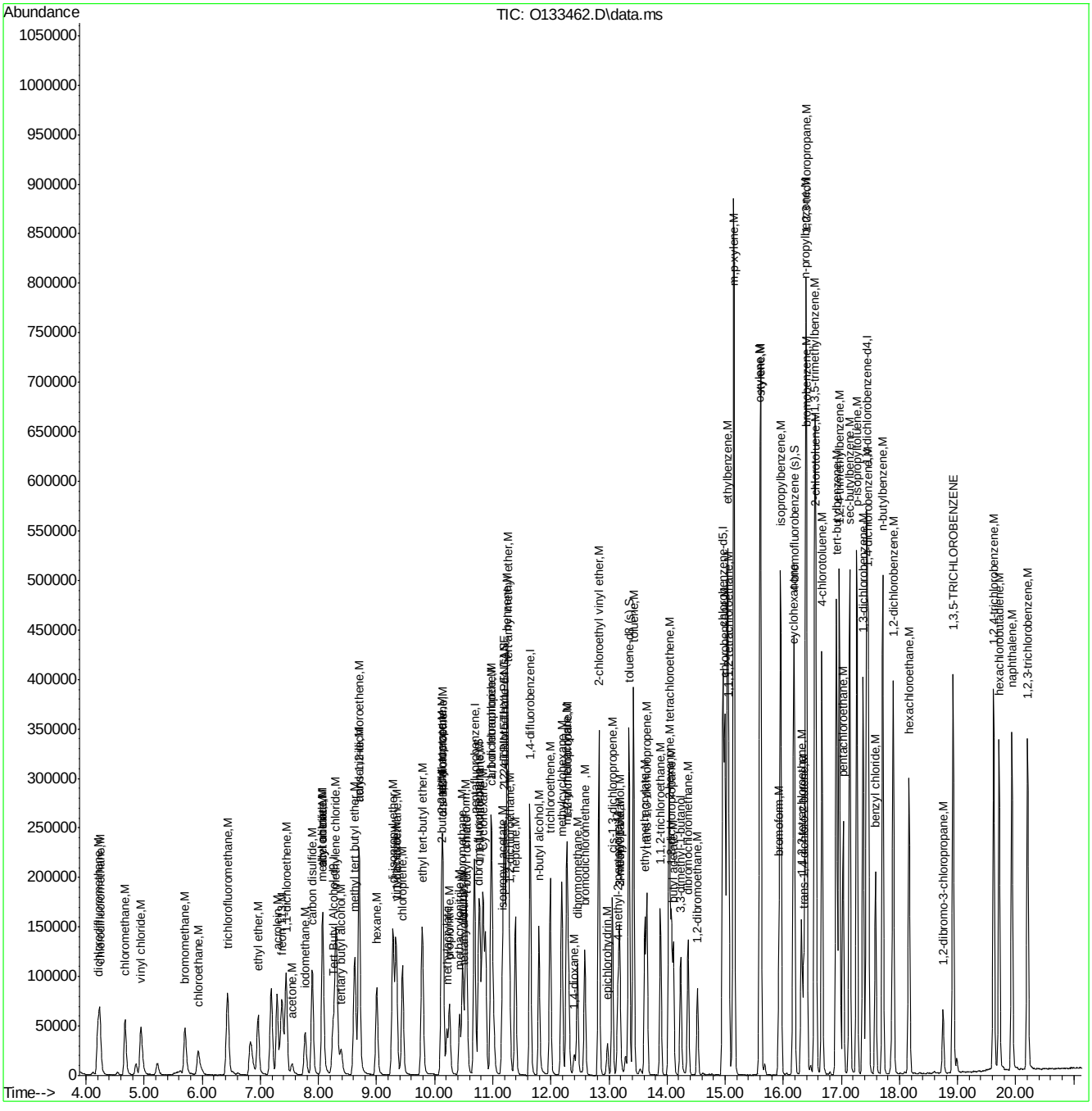
7.7.35

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : O133462.D
Acq On : 26 Feb 2013 12:19 am
Operator : DIPAP
Sample : cc5870-50
Misc : MS43527,VO5887,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 26 12:04:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\MO5870S.M
Quant Title : Method 624, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Feb 07 12:45:22 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB29314

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8379

Print Analyst Name: Emily T

Analyst Signature: [signature]

Date: 2/11/13 (MON)

Columns: DB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method MD8379

Standard Data

Lot #	Description	Conc.
VD2-MT2-3	STDA	100ppm
-43	B	
-93	C	
-92	Acrolein	100ppm
-94	Surrogate	100ppm

Standard Data

Lot #	Description	Conc.
VD2-MT2-126	Int only	10ppm
VD2-MT2-52	STDA	
-72	B	
-95	C	
-74	Int Acrolein	100ppm

Pentane VD2-MT2-119 (100ppm) MBUF VD2-MT2-120 100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 2/12/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	D205384	BFB				1							ok		
	205385	IC8379-05	8260 initial	W		2	5/5	10					ok	0.5 ul AB, Acrolein, Surrogate → 10ul Pentane, MBUF	
	205386	IC8379-1				3	5/5						ok	1ul	
	205387	IC8379-2				4	5/5						ok	2ul	
	205388	IC8379-5				5	5/5						ok	5ul	
	205389	IC8379-10				6	5/5						ok	5ul AB, Acrolein, Surrogate → 5ml Pentane, MBUF	
	205390	IC8379-20				7	5/5						ok	10ul	
	205391	IC8379-50				8	5/5						ok	25ul	
	205392	IC8379-100				9	5/5						ok	50ul	
	205393	IC8379-200				10	5/5						ok	100ul	
	205394	IB				11	5/5						[illegible]		
	205395	IB				12	5/5								
	205396	ICV8379-50				13	5/5						MG	25ul EXTAB, Acrolein, Surrogate → 5ml Pentane, MBUF due to pentane allowance, degrade	
													YL 2/12/2013		

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
mple Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; computer miscalculation; 4 = analyst's correction error

rm: OR001-9
v. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8380

Date: 2/12/13 (TUES)

Print Analyst Name: Emily T

Analyst Signature: Emily T

Columns: DB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method MD8379

Standard Data

Lot #	Description	Conc.
042423	624A	100ppm
-43	B	↓
-93	C	↓
-92	Acrolein	100ppm
041187	Mix (Acrylonitrile)	

Standard Data

Lot #	Description	Conc.
042423	Acrylonitrile	250/250ppm
-55	624A	100ppm
-72	B	↓
-95	C	↓
-74	Acrolein	100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 2/13/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	D205398	~~BFB~~				1							OK		
	205399	CC8379-20				2							OK	10ul ABC Acrolein → 80	
	205400	ICV8379-50 ~~IB~~				3	S/S						OK		
	205401	~~MB~~ IB				4	S/S						clip PB pressure #24		
	205402	~~BS~~ MB				5	S/S						OK	25ul ABC Acrolein → 80	
	205403	~~IB~~ BS				6	S/S						OK		
	205404	JB27801-3	42756 TCLP		4	7	6.4/5	100					~~OK~~ clip		
R	205405	JB28137-1	42954 TCLP		1	8	6/10	10					OK		
R	205406	JB28137-1			1	9	6/10	1					Not Heed		
R	205407	JB28137-3			1	10	8/10	1	2				OK ~~TOL RR~~		
R	205408	JB28137-5			1	11	5/10	1	10				OK/D2 RR 2500 X		
R	205409	JB28137-7			1	12	8/10	1	5				OK		
R	205410	JB28137-9			1	13	6/10	5					OK		
	205411	JB28137-11			1	14	5/10	10					OK		
	205412	JB28374-2(mj)	43031 SC		B2	15	6.9/10	100					OK	25ul ABC Acrolein → 80	
	205413	JB28374-2(mj)			2	16	6.9/10	100					OK		
	205414	IB				17	S/S						clip		

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error
orm: OR001-9
ev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD 8380

Date: 2/12/13 (TUES)

Print Analyst Name: Emily T

Analyst Signature: Emily T

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Del page 251	

Columns: DB624 (Gem x0.25mm x 1.4um)

Method 8260

Initial Cal. Method MP8379

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/13/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
R	D205415	JB28374-2	8260B SL	W	2	18	6.9/10	100			✓		ok		
R	205416	JB28374-1	↓	↓	2	19	6.7/10	100			✓		ok		
R	205417	JB28374-3			2	20	6.1/10	100			✓		ok		
R	205418	JB28374-4			2	21	6.3/10	100			✓		ok		
R	205419	JB28374-5	↓	↓	2	22	6.4/10	100			✓		ok		
	205420	IB				23	5/5								
	205421	IB				24	5/5				✓				

YL 2/13/2013

X = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
nple Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; computer miscalculation; 4 = analyst's correction error

m: OR001-9
Date: 2/14/2007

253

7.8.2

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8399

Date: 2/26/13 (TUES)

Print Analyst Name: Emily T

Analyst Signature: Emily Tran

Standard Data

Lot #	Description	Conc.
W2-1472-122	STDA	100ppm
↓ -112	↓ B	↓
W2-1472-117	↓ C	
W2-1472-145	Acrolein	100ppm
DH187	MeOH (Methyl Alc)	

Standard Data

Lot #	Description	Conc.
W2-1472-135	Int/Sur	25ppm
-114	~~Std~~	100ppm
-128	↓ B	
W3-1486-14	↓ C	↓
W2-1472-147	~~Std~~ Acrolein	100ppm

Columns: ZB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method VD8379

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 2/27/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	D205877	~~BEB~~ ZB				1							clip		
	205878	BEB				2							ok	9:45AM	
	205879	CL8379-20				3							ok	10ul A.B.C Acrolein	>50
	205880	IB				4	5/5						clip		
	205881	MB				5	5/5			✓	—		ok	Dispenser #24	
	205882	BS				6	5/5				—		ok	25ul EA A.B.C Acrolein	>50
	205883	IB				7	5/5				—		clip		
R	205884	JB28728-9	483729 TCLP	W	4	8	5/4.1/5	100		✓	—		ok		
R	205885	JB28728-7	↓	↓	4	9	2.7/5	20		✓	—		ok		
R	205886	JB 29973-2	483452 SVOC ~~[illegible]~~		3	10	6.4/5	100			✓		ok	matrix	
R	205887	JB29317-3	483627 STD SVOC		3	11	5.2/10	100			✓		ok	matrix	
~~R~~	~~205888~~	~~JB28908-2~~	~~483442 BFX SVOC~~		~~3~~	~~12~~	~~6.3/5~~	~~4~~					~~not needed~~		
~~R~~	~~205889~~	~~JB28908-8~~	~~↓~~	~~↓~~	~~3~~	~~13~~	~~6.1/5~~	~~2~~					~~↓~~		
	205890 ~~88~~	JB28908-9	↓	↓	3	14	6.3/5	100			✓	↑	ok/D2	RR fox	
	205891 ~~89~~	JB28908-10	↓	↓	3	15	6.4/5	100			✓	↑	ok/D2	RR fox	
	205892 ~~90~~	JB28910-2MS	483445 TCLP	↓	3	16	5.5/5	100			✓		ok	25ul A.B.C A-Acrolein	>50
	205893 ~~91~~	JB28910-2MSD	↓	↓	3	17	5.5/5	100			✓		ok	↓	

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error
orm: OR001-9
ev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8399

Date: 2/26/13 (TUES)

Print Analyst Name: Emily T

Analyst Signature: Emily T

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 55	

Columns: ZB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method VD8379

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 2/27/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	D205894 90	IB				18	5/5				✓		clmp		
R	205895 93	JB28910-2	43445 TCLH4	W	3	19	5.5/5	100		✓	✓		ok		
R	205896 94	JB28910-4	↓	↓	3	20	5.3/5	100		✓	✓		ok	matrix.	
	205897 95	JB29314-1	43693 SL3	W	3	21	5.1/5	100			✓		ok		
	205898 96	JB29314-2	↓	↓	3	22	4.6/5	10			✓		ok/R	1x compine.	
	205899 97	~~JB28778-2R~~ JB29314-4R	↓	↓	3	23	4.5/5	100		✓	✓		ok	MS 43706 WPTCLH4T	
	205900 98	022613 IB				24	5/5				clmp				
	205901 99	IB				25	5/5								
	205902	IB				26	5/5								
	205903	IB				27	5/5								
														YL 2/27/2013	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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7.8.3

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8401

Date: 2/27/13 (WED)

Print Analyst Name: Emily T

Analyst Signature: Emily T

Columns: ZB624 (60m x 0.25mm x 1.4µm)

Method 8260

Initial Cal. Method MP8379

Standard Data

Lot #	Description	Conc.
WB1518-24	STDA	100ppm
↓ -28	↓ B	↓
WB1518-24	↓ C	↓
WB1518-25	Acrolein	100ppm
DH187	Mesh (Library well)	

Standard Data

Lot #	Description	Conc.
WB1518-19	Int Std	25/50ppm
WB1518-27	Ext A	100ppm
↓ -21	↓ B C	↓
WB1518-22 ~~27~~ 14		↓
WB2472-117	Ext Acrolein	100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/28/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	D205926	BFB				1							ok		11:51AM
	205927	CC8374-20				2							ok	10ul A.B.C. Acrolein → 5	
	205928	IB				3	5/5				✓		clip		
	205929	MB				4	5/5				✓		ok	Dispenser #24	
	205930	BS				5	5/5				✓		ok	25ul Ext A.B.C. Acrolein → 5	
	205931	JB29173-8MS	43545 PALO SMA		3	6	4.7/5	100			✓		ok	25ul A.B.C. Acrolein → 5	
	205932	JB29173-8MSD	↓		3	7	4.7/5	100			✓		ok	↓	
	205933	IB				8	5/5				✓		clip		
	205934	JB29173-8	43545 PALO SMA		3	9	4.7/5	100			✓		ok		
	205935	JB29173-9			3	10	5.8/5	100			✓		ok		
	205936	JB29173-7			3	11	6.5/5	100			✓		ok		
	205937	JB29173-6			3	12	6/5	100			✓		ok		
	205938	JB29173-5			3	13	6.2/5	100			✓		ok		
	205939	JB29173-4			3	14	6.3/5	100			✓		ok		
	205940	JB29173-3			3	15	4.2/5	100			✓		ok		
	205941	JB29173-2			3	16	5.9/5	100			✓		ok		
	205942	JB29173-1	↓		3	17	5.5/5	100			✓		ok		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VD8401

Print Analyst Name: Emily T

Analyst Signature: Emily T

Date: 2/27/13 (Wed)

Columns: 8260/Con x 0.25mm x (.4u)

Method 8260

Initial Cal. Method MD8379

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 43	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 2/28/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
02	D205943	JB28897-21	43440 TCL11+10	soil	3	18	5.5/10	20ul			W		NG	RR 5X TIC Cmpnt	
R	205944	JB32P314-4	43443 TCL3		3	19	4.5/5	100			W		NG	RR low level - "X"	
R	205945	JB32P314-2	↓		3	20	4.6/5	100			W		ok		
02	205946	JB28908-1	43442 TCL11+10	soil	3	21	5.6/5	4			W		ok		
02	205947	JB32P266-6	43558 TCL11+		3	22	~~5.6/5~~ 4.7/5	2			W		ok		
02	205948	JB32P266-12	↓		3	23	4.1/5	4			W		ok		10:40 pm
	205949	2B				24	5/5	100			clmp				
	205950	2B				25	5/5	100							
	205951	2B				26	5/5	100					↓		

YL 2/28/2013

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-X 7342

Date: 2/26/13

Print Analyst Name: SCOTT MCGONIGAL

Analyst Signature:

Columns: ZB-624

Method SW846-8260

Initial Cal. Method MI-7342

Standard Data

Lot #	Description	Conc.
V013-1985-185	BFB	5000ppm
V012-1472-104	8260 A	100ppm
V013-1918-29	B	
V013-1918-24	C	
V012-1472-145	ACRL	1000ppm

Standard Data

Lot #	Description	Conc.
V013-1918-12	INT. STD	250ppm
V013-1918-08	SURR	100ppm
V013-1918-27	EXT. A	
V013-1918-21	B	
V013-1918-14	C	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: RO Date: 2/28

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	I181796	BFB											ok		
	I181797	IC7342-0.5	8260	S		16	5.0						ok	A,B,C,ACR, SURR 0.5ml OF STDS. TO 100ml	
	I181798	IC7342-1				17							ok	" 1.0ml	"
	I181799	IC7342-2				18							ok	" 2.0ml	"
	I181800	IC7342-5				19							ok	" 5.0ml	"
	I181801	IC7342-10				20							ok	" 10ml	"
	I181802	IC7342-20				21							ok	A,B,C,ACR,SUR 10ml OF STDS TO 50ml	
	I181803	IC7342-200				22							ok	" 100ml	"
	I181804	IC7342-100				23							ok	" 50ml	"
	I181805	ICC7342-50				24							ok	" 25ml	"
	I181806	~~IC7342~~ IB				25									
	I181807	ICV7342-50				26							ok	A,B,C,ACR,SUR 25ml OF STDS TO 50ml	
	I181808	IB				27									
	I181809					28									
	I														
	I														
	I														

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-7353

Date: 3/06/13

Print Analyst Name: SCOTT [illegible]

Analyst Signature: [illegible]

Columns: ZB-624

Method SW846-8260

Initial Cal. Method MT-7342

Standard Data

Lot #	Description	Conc.
V013-1518-22	8260 A	100ppm
V013-1518-29	B	
V013-1518-30	C	
V013-1518-1872-1/48	ASROL	1000ppm
V013-1518-3	INT. STD/SUR	250ppm

Standard Data

Lot #	Description	Conc.
V013-1518-27	EXT. A	100ppm
V013-1518-21	B	
V013-1518-28	C	
V013-1518-46	ASROL	1000ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 3/7/13

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	I182033	BFB											ok	959	
	I182034	CC7342-50	8260	S			5.0						ok	25ml of STDS to 50ml	
	I182035	IB													
	I182036	MB1									✓	✓	ok		
	I182037	BS									✓	✓	ok	25ml of STDS to 50ml	
	I182038	IB													
	I182039	JB29330-1	MDVO		2	10	5.7				✓	✓	ok	INTACT BOTT.	
	I182040	JB30401-1	TOA/ VTCL11		4	11	5.4			+	✓	✓	ok		
	I182041	JB30401-3				12	6.0			+	✓	✓	ok		
	I182042	JB30401-4				13	5.4			+	✓	✓	ok		
	I182043	JB30401-5				14	6.0			+	✓	✓	ok		
	I182044	JB30401-6				15	5.2			+	✓	✓	ok		
	I182045	JB29314-4	VTCL11		5	16	4.4			N	✓	✓	ok		
	I182046	JB29437-17			4	17	5.5			+	✓	✓	LSF/ok		
R	I182047	JB30328-24			5	18	6.4			+	✓	✓	ok		
	I182048	JB30328-26			4	19	6.5			+	✓	✓	ok		
	I182049	JB30328-27			4	20	6.3			+	✓	✓	ok		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-7353

Date: 3/06/13

Print Analyst Name: SCOTT McGonagle

Analyst Signature:

Standard Data

Lot #	Description	Conc.
	19 91	

Standard Data

Lot #	Description	Conc.

Columns: 2B-624

Method SW846-8260D

Initial Cal. Method MT-7342

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 3/8/13

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	I182050	JB30328-28	VTCL11	S	4	21	6.2			+	✓	✓	ok		
	I182051	JB30328-29				22	6.7			+	✓	✓	ok		
	I182052	JB30328-30				23	5.1			+	✓	✓	ok		
	I182053	JB30328-32				24	6.8			+	✓	✓	ok		
	I182054	JB30319-1			6	25	6.4			+	✓	✓	ok		
	I182055	JB29330-1mr			2	26	5.7			+	✓	✓	ok	A, B, C, AVR 25ml OF STDS. TO 50ml	
	I182056	JB29330-1mr			2	27				+	✓	✓	ok	"	"
	I182057	IB				28									

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V05870

Date: 2/6/13 wed

Print Analyst Name: Dipa Patel

Analyst Signature: DP

Columns: Restec RX1 624

Method V8260

Initial Cal. Method M05810S

Standard Data

Lot #	Description	Conc.
VOR1472 114	EXTA	100 ppm
112	B	100
118	C	100
117	Acrolein	100
115	Acrolein Entony	100

Standard Data

Lot #	Description	Conc.
VOR1472 104	A	100 ppm
112	B	100
125	C	100
120	STD S	100
94	Surrogate	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: HS Date: 2/7

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	0133055	BFB											ok	2:48 pm	
	133056	IC5870-0.5											ok	0.5 ml of A,B,C, Acrolein Surrogate STD S STD Extra	100 ml FV
	133057	IC5870-1											ok	1 ml of	100 ml FV
	133058	IC5870-2											ok	2 ml of	100 ml FV
	133059	IC5870-5											ok	5 ml of	100 ml FV
	133060	IC5870-10											ok	5 ml of	50 ml FV
	133061	IC5870-20											ok	10 ml of A,B,C, Acrolein STD S, STD Extra 25 ml of Surrogate	50 ml FV
	133062	IC5870-50											ok	25 ml of A,B,C, Acrolein Surrogate STD S, STD Extra	50 ml FV
	133063	IC5870-100											ok	50 ml of	
	133064	IC5870-200											ok	100 ml of	
	133065	IB											–		
	133066	IB											–		
	133067	ICV5870-50											NG	25 ml of ExtA, Surrogate B, C, STD S, ExtAcrolein STD Extra	ghost 50 ml FV
	133068	BFB2											ok	9:27 am	
	133069	ICV5870-50											ok	25 ml of ExtA,B,C, Surrogate ExtAcrolein STD S, Extra STD	50 ml FV

DP 2/7/13

*MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VO5887

Print Analyst Name: Dipa Patel

Analyst Signature: DP

Date: 2/25/13 Monday

Columns: ZB624 60m x .25mm x 1.4um

Method V8260

Initial Cal. Method M058705

Standard Data

Lot #	Description	Conc.
012472-14	Ext A	100 ppm
012472-28	B	100
013158-14	C	100
012472-97	IS	250/2mm

Standard Data

Lot #	Description	Conc.
012472-104	A	100 ppm
012472-112	B	100
013158-24	C	100
012472-115	Anolein	100
012472-117	Ext Anolein	100

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 2/26/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	0133440	BFB											ok	11:32am	
	133441	CC5870-20											Not used	10ml A,B,C of Anolein/50ml FV	
	133442	CC5870-20										✓	ok		
	133443	MB1								✓	✓		calcup		
	133444	MB1								✓	✓		ok		
	133445	BS									✓		ok	25ml Ext A + B + Ext C of Anolein	/50ml FV
	133446	IB	DP 2/25/13								✓		clup		
	133447	JB29267-10	43630 NJPTCL11+	S	3		5.9			✓	✓		ok		
	133448	JB29267-11	TBA		3		6.6			✓	✓		ok		
R	133449	JB29267-3			4		4.8			✓	✓		ok		
	133450	JB29267-10 Dup			4		6.5						Not used	Bad purged	
	133451	JB29267-11MS			4		6.5				✓		ok		
	133452	IB									✓		clup		
	133453	JB29216-1	43620 TCL11+	S	4		5.6			✓	✓		ok		
	133454	JB29216-1Dup	TBA		5		5.2				✓		ok		
R	133455	JB29254-5	43606 TCL11 Nap 124 1,3,5 TMB	S	6		5.4			✓	✓		ok		
R	133456	JB29182-6	43527 TCL11+		7		6.1			✓	✓		ok		

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Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VO5887

Print Analyst Name: Dipa Patel
Analyst Signature: DP

Date: 2/25/13

Columns: ZB624

Method V8260

Initial Cal. Method MO58705

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	SEEP-219	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ **Date:** 2/26/2013

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
R	0133457	JB29182-10	43527 TCL11+	SCL	7		2.8			✓	✓		ok		
R	133458	JB29182-13	↓	↓	7		5.7			✓	✓		ok		
R	133459	JB29182-9	↓	↓	7		4.6			✓	✓		ok	10:48pm	
	133460	IB											chip		
	133461	BFB2											ok		
	133462	CCS870-50									✓		ok	11:49PM	
	133463	IB									✓		chip		
	133464	MB2								✓	✓		ok		
	133465	JB29216-2	43620 TCL11+TBA	SCL	4		6.1			✓	✓		ok		
	133466	JB29216-3	↓	↓	4		5.9			✓	✓		ok		
	133467	JB29216-4	↓	↓	4		5.7			✓	✓		ok		
	133468	JB29216-5	↓	↓	4		4.3			✓	✓		ok		
	133469	JB29314-3	43693 SL3	SCL	4		4.5				✓		ok		
	133470	JB29437-1	43743 TCL11+	↓	4		5.7			✓	✓	↓	~~ok~~ RR	RR CFS	
	133471	JB29437-2	↓	↓	4		5.8			✓	✓		ok		
	133472	JB29437-3	↓	↓	4		5.6			✓	✓		ok		
	133473	JB29437-4	↓	↓	4		5.7				✓	↓	~~HR~~ CFS ~~RR~~	↓ Surrogate RR LL CFS possible co	DP 2/27/13
	133474	JB29437-5	↓	↓	4		5.6			✓	✓		ok		

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result DP 2/25/13

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Form: OR001-9
Rev. Date: 2/14/2007

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New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JB29314
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JB29314-1 **Analyzed:** 26-FEB-13 by BM **Method:** SM2540 G-97
ClientID: AREAEC7_BOT

Wet Weight (Total)	26.85	g
Tare Weight	21.84	g
Dry Weight (Total)	25.48	g
Solids, Percent	72.7	%

Sample: JB29314-2 **Analyzed:** 26-FEB-13 by BM **Method:** SM2540 G-97
ClientID: AREAEC8_7FT

Wet Weight (Total)	29.14	g
Tare Weight	22.69	g
Dry Weight (Total)	28.53	g
Solids, Percent	90.5	%

Sample: JB29314-3 **Analyzed:** 26-FEB-13 by BM **Method:** SM2540 G-97
ClientID: AREAEC8_BOT

Wet Weight (Total)	27.75	g
Tare Weight	22.34	g
Dry Weight (Total)	25.54	g
Solids, Percent	59.1	%

Sample: JB29314-4 **Analyzed:** 26-FEB-13 by BM **Method:** SM2540 G-97
ClientID: AREAEC8_BOTD

Wet Weight (Total)	26.65	g
Tare Weight	19.78	g
Dry Weight (Total)	23.74	g
Solids, Percent	57.6	%

New Jersey

ACCUTEST LABORATORIES

Misc. Raw Data

Raw Data

Methanol Prep Log

Vial Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By	Vial Desc:	Comments
2/19/2013-6020	JB29314-1.3	32.9000	38.0000	5.1000	2/21/2013 11:17:46 AM	dh187	jp	5ml MeOH	
2/19/2013-5944	JB29314-1.4	29.7000	34.6800	4.9800	2/21/2013 11:17:54 AM	di	jp	DI water	
2/19/2013-5945	JB29314-1.5	29.6500	34.0400	4.3900	2/21/2013 11:18:00 AM	di	jp	DI water	
2/19/2013-6021	JB29314-2.3	32.7800	37.4000	4.6200	2/21/2013 11:18:07 AM	dh187	jp	5ml MeOH	
2/19/2013-5946	JB29314-2.4	29.7400	34.0500	4.3100	2/21/2013 11:18:13 AM	di	jp	DI water	
2/19/2013-5947	JB29314-2.5	29.7200	34.1600	4.4400	2/21/2013 11:18:21 AM	di	jp	DI water	
2/19/2013-6022	JB29314-3.3	32.6400	37.2500	4.6100	2/21/2013 11:18:48 AM	dh187	jp	5ml MeOH	
2/19/2013-5948	JB29314-3.4	29.8200	34.3500	4.5300	2/21/2013 11:18:57 AM	di	jp	DI water	
2/19/2013-5949	JB29314-3.5	29.6900	33.4400	3.7500	2/21/2013 11:19:03 AM	di	jp	DI water	
2/19/2013-6023	JB29314-4.3	32.8200	37.2700	4.4500	2/21/2013 11:19:11 AM	dh187	jp	5ml MeOH	
2/19/2013-5950	JB29314-4.4	29.5400	34.3700	4.8300	2/21/2013 11:19:18 AM	di	jp	DI water	
2/19/2013-5951	JB29314-4.5	29.6400	34.0100	4.3700	2/21/2013 11:19:41 AM	di	jp	DI water	