New Jersey
ACCUTEST LABORATORIES

03/15/13

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

Accutest Job Number: JB28370

Sampling Dates: 02/06/13 - 02/07/13

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **410**

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: JB28370

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB28370-1	02/06/13	15:45	TT	02/08/13	SO	Soil	AREAEC1_BOT
JB28370-2	02/06/13	15:50	TT	02/08/13	SO	Soil	AREAEC1_SW
JB28370-3	02/07/13	11:24	TT	02/08/13	SO	Soil	AREAEC2_BOT
JB28370-4	02/07/13	13:50	TT	02/08/13	SO	Soil	AREAEC3_SW
JB28370-5	02/07/13	14:20	TT	02/08/13	SO	Soil	AREAEC3_BOT

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JB28370
Site:	BMSMC, Building 5 Area, PR	**Report Date**	2/25/2013 5:50:12 PM

On 02/08/2013, 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 JB28370 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:** VD8381

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB28374-6MS, JB28374-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** VD8383

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28044-7MS, JB28044-7MSD were used as the QC samples indicated.
- JB28370-2: Diluted due to high concentration of target compound.
- JB28370-1: Confirmation run.

Matrix: SO **Batch ID:** VI7333

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28636-4MS, JB28636-4MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VY5654

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29432-10DUP, JB29432-9MS, JB29432-10DUP were used as the QC samples indicated.
- The following samples were run outside of holding time for method SW846 8260B: JB28370-1 Sample analyzed outside the holding time but the original run within holding time.
- RPD(s) for Duplicate for Xylene (total) are outside control limits for sample JB29432-10DUP. High RPD due to low concentration of hit
- JB28370-1: Sample analyzed outside the holding time but the original run within holding time.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN80035

- 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: JB28370
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 02/06/13 thru 02/07/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB28370-1	**AREAEC1_BOT**					
Acetone [a]		36.0	14	2.3	ug/kg	SW846 8260B
Benzene [a]		0.85 J	1.4	0.16	ug/kg	SW846 8260B
Ethylbenzene [a]		2.3	1.4	0.36	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK) [a]		1.6 J	6.8	1.0	ug/kg	SW846 8260B
Xylene (total) [a]		14.3	1.4	0.19	ug/kg	SW846 8260B
JB28370-2	**AREAEC1_SW**					
Ethylbenzene [b]		471	68	18	ug/kg	SW846 8260B
Xylene (total) [b]		1710	68	9.5	ug/kg	SW846 8260B
JB28370-3	**AREAEC2_BOT**					
Acetone		16000	810	140	ug/kg	SW846 8260B
Ethylbenzene		782	81	21	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		7390	400	60	ug/kg	SW846 8260B
Toluene		793	81	8.5	ug/kg	SW846 8260B
Xylene (total)		3190	81	11	ug/kg	SW846 8260B
JB28370-5	**AREAEC3_BOT**					
Acetone		143	13	2.3	ug/kg	SW846 8260B
Benzene		3.4	1.3	0.16	ug/kg	SW846 8260B
Ethylbenzene		0.89 J	1.3	0.35	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		6.0 J	6.7	1.0	ug/kg	SW846 8260B
Toluene		3.0	1.3	0.14	ug/kg	SW846 8260B
Xylene (total)		34.8	1.3	0.19	ug/kg	SW846 8260B

(a) Sample analyzed outside the holding time but the original run within holding time.
(b) Diluted due to high concentration of target compound.

New Jersey

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Sample Results

Report of Analysis

Accutest LabLink@718861 13:53 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC1_BOT		
Lab Sample ID:	JB28370-1	**Date Sampled:**	02/06/13
Matrix:	SO - Soil	**Date Received:**	02/08/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	73.8
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y131352.D	1	02/25/13	RS	02/08/13 13:00	n/a	VY5654
Run #2 [b]	D205472.D	1	02/14/13	ET	02/08/13 13:00	n/a	VD8383

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g		
Run #2	4.4 g	5.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	36.0	14	2.3	ug/kg	
71-43-2	Benzene	0.85	1.4	0.16	ug/kg	J
100-41-4	Ethylbenzene	2.3	1.4	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	1.6	6.8	1.0	ug/kg	J
108-88-3	Toluene	ND	1.4	0.14	ug/kg	
1330-20-7	Xylene (total)	14.3	1.4	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	97%	70-130%
17060-07-0	1,2-Dichloroethane-D4	109%	101%	70-122%
2037-26-5	Toluene-D8	106%	99%	81-127%
460-00-4	4-Bromofluorobenzene	105%	100%	66-132%

(a) Sample analyzed outside the holding time but the original run within holding time.
(b) Confirmation run.

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 13:53 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC1_SW		
Lab Sample ID:	JB28370-2	**Date Sampled:**	02/06/13
Matrix:	SO - Soil	**Date Received:**	02/08/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	79.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	D205473.D	1	02/14/13	ET	02/08/13 13:00	n/a	VD8383
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.7 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	680	120	ug/kg	
71-43-2	Benzene	ND	68	8.1	ug/kg	
100-41-4	Ethylbenzene	471	68	18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	340	51	ug/kg	
108-88-3	Toluene	ND	68	7.2	ug/kg	
1330-20-7	Xylene (total)	1710	68	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-122%
2037-26-5	Toluene-D8	99%		81-127%
460-00-4	4-Bromofluorobenzene	99%		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 13:53 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC2_BOT		
Lab Sample ID:	JB28370-3	**Date Sampled:**	02/07/13
Matrix:	SO - Soil	**Date Received:**	02/08/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	76.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D205440.D	1	02/13/13	ET	02/08/13 13:00	n/a	VD8381
Run #2							

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	16000	810	140	ug/kg	
71-43-2	Benzene	ND	81	9.6	ug/kg	
100-41-4	Ethylbenzene	782	81	21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	7390	400	60	ug/kg	
108-88-3	Toluene	793	81	8.5	ug/kg	
1330-20-7	Xylene (total)	3190	81	11	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	99%		81-127%
460-00-4	4-Bromofluorobenzene	101%		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 13:53 15-Mar-2013

Report of Analysis

Client Sample ID:	AREAEC3_BOT		
Lab Sample ID:	JB28370-5	**Date Sampled:**	02/07/13
Matrix:	SO - Soil	**Date Received:**	02/08/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	74.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I181544.D	1	02/15/13	SJM	02/08/13 13:00	n/a	VI7333
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	143	13	2.3	ug/kg	
71-43-2	Benzene	3.4	1.3	0.16	ug/kg	
100-41-4	Ethylbenzene	0.89	1.3	0.35	ug/kg	J
108-10-1	4-Methyl-2-pentanone(MIBK)	6.0	6.7	1.0	ug/kg	J
108-88-3	Toluene	3.0	1.3	0.14	ug/kg	
1330-20-7	Xylene (total)	34.8	1.3	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	100%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	115%		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

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CHAIN OF CUSTODY

PAGE 1 OF 1

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

FED-EX Tracking # 7947003731 09
Bottle Order Control #
Accutest Quote #
Accutest Job # JB28370

Client / Reporting Information

Company Name: AMAI
Street Address: 110 Corporate Pk Dr.
City State Zip: White Plains, NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): Terry Taylor
Phone #:

Project Information

Project Name: Building 5 Area E ICM
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Biegs Area Special List	LAB USE ONLY
-1	AREAEC1_BOT		2/6/13	1545	TT	SO	4									X	0058
-2	AREAEC1_SW		2/6/13	1550	TT	SO	4									X	1481
-3	AREAEC2_BOT		2/7/13	1124	TT	SO	4									X	4047
-4	AREAEC3_SW		2/7/13	1350	TT	SO	4									X	
-5	AREAEC3_BOT		2/7/13	1420	TT	SO	4									X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

#3 Encores DJ 2/8/13

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	2/7/13:1500	1 Fed Ex	2 Fed Ex	2/8/13 0930	2 Tony Ho
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 580	Intact / Not intact	Preserved where applicable: On Ice: Cooler Temp. 3.0°C

1A

Fri 2/8/13

1A

JB28370: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB28370 **Client:** **Project:**

Date / Time Received: 2/8/2013 **Delivery Method:** **Airbill #'s:**

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

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

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

Quality Control Preservation	Y	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	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

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

Sample Integrity - Instructions	Y	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

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Dayton, New Jersey
www/accutest.com

JB28370: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JB28370

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB28370-1	Collected: 06-FEB-13 15:45 By: TT		Received: 08-FEB-13 By: TH			
AREAEC1_BOT						
JB28370-1	SW846 8260B	14-FEB-13 17:25	ET			V8260SL3
JB28370-1	SM2540 G-97	19-FEB-13 12:59	KP			%SOL
JB28370-1	SW846 8260B	25-FEB-13 15:08	RS			V8260SL3
JB28370-2	Collected: 06-FEB-13 15:50 By: TT		Received: 08-FEB-13 By: TH			
AREAEC1_SW						
JB28370-2	SW846 8260B	14-FEB-13 17:54	ET			V8260SL3
JB28370-2	SM2540 G-97	19-FEB-13 12:59	KP			%SOL
JB28370-3	Collected: 07-FEB-13 11:24 By: TT		Received: 08-FEB-13 By: TH			
AREAEC2_BOT						
JB28370-3	SW846 8260B	13-FEB-13 17:17	ET			V8260SL3
JB28370-3	SM2540 G-97	19-FEB-13 12:59	KP			%SOL
JB28370-5	Collected: 07-FEB-13 14:20 By: TT		Received: 08-FEB-13 By: TH			
AREAEC3_BOT						
JB28370-5	SW846 8260B	15-FEB-13 21:08	SJM			V8260SL3
JB28370-5	SM2540 G-97	19-FEB-13 12:59	KP			%SOL

Accutest Internal Chain of Custody

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/08/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB28370-1.1	Secured Storage	Todd Shoemaker	02/19/13 09:43	Retrieve from Storage
JB28370-1.1	Todd Shoemaker	Secured Staging Area	02/19/13 09:43	Return to Storage
JB28370-1.1	Secured Staging Area	Krimesh Patel	02/19/13 09:47	Retrieve from Storage
JB28370-1.1	Krimesh Patel	Secured Storage	02/19/13 15:00	Return to Storage
JB28370-1.3	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-1.3	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-1.3	Secured Storage	Emily Tran	02/12/13 10:16	Retrieve from Storage
JB28370-1.3	Emily Tran	Secured Storage	02/12/13 17:11	Return to Storage
JB28370-1.4	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-1.4	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-1.4	Secured Storage	Scott McGonigal	02/11/13 15:29	Retrieve from Storage
JB28370-1.4	Scott McGonigal	GCMSI	02/11/13 15:29	Load on Instrument
JB28370-1.4	GCMSI	Scott McGonigal	02/11/13 17:08	Unload from Instrument
JB28370-1.4	Scott McGonigal	Secured Storage	02/12/13 09:50	Return to Storage
JB28370-1.5	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-1.5	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-1.5	Secured Storage	Robert Szot	02/25/13 14:46	Retrieve from Storage
JB28370-1.5	Robert Szot	GCMSY	02/25/13 14:46	Load on Instrument
JB28370-1.5	GCMSY	Robert Szot	02/26/13 12:00	Unload from Instrument
JB28370-1.5	Robert Szot		02/26/13 12:00	Depleted
JB28370-2.1	Secured Storage	Todd Shoemaker	02/19/13 09:43	Retrieve from Storage
JB28370-2.1	Todd Shoemaker	Secured Staging Area	02/19/13 09:43	Return to Storage
JB28370-2.1	Secured Staging Area	Krimesh Patel	02/19/13 09:47	Retrieve from Storage
JB28370-2.1	Krimesh Patel	Secured Storage	02/19/13 15:00	Return to Storage
JB28370-2.3	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-2.3	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-2.3	Secured Storage	Emily Tran	02/12/13 10:16	Retrieve from Storage
JB28370-2.3	Emily Tran	Secured Storage	02/12/13 17:11	Return to Storage
JB28370-2.4	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-2.4	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-2.4	Secured Storage	Scott McGonigal	02/11/13 15:29	Retrieve from Storage
JB28370-2.4	Scott McGonigal	GCMSI	02/11/13 15:29	Load on Instrument
JB28370-2.4	GCMSI	Scott McGonigal	02/11/13 17:08	Unload from Instrument
JB28370-2.4	Scott McGonigal	Secured Storage	02/12/13 09:50	Return to Storage
JB28370-2.5	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-2.5	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage

Accutest Internal Chain of Custody

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/08/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB28370-3.1	Secured Storage	Todd Shoemaker	02/19/13 09:43	Retrieve from Storage
JB28370-3.1	Todd Shoemaker	Secured Staging Area	02/19/13 09:43	Return to Storage
JB28370-3.1	Secured Staging Area	Krimesh Patel	02/19/13 09:47	Retrieve from Storage
JB28370-3.1	Krimesh Patel	Secured Storage	02/19/13 15:00	Return to Storage
JB28370-3.3	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-3.3	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-3.3	Secured Storage	Emily Tran	02/12/13 10:16	Retrieve from Storage
JB28370-3.3	Emily Tran	Secured Storage	02/12/13 17:11	Return to Storage
JB28370-3.4	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-3.4	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-3.4	Secured Storage	Scott McGonigal	02/11/13 15:29	Retrieve from Storage
JB28370-3.4	Scott McGonigal	GCMSI	02/11/13 15:29	Load on Instrument
JB28370-3.4	GCMSI	Scott McGonigal	02/11/13 17:08	Unload from Instrument
JB28370-3.4	Scott McGonigal	Secured Storage	02/12/13 09:50	Return to Storage
JB28370-3.5	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-3.5	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-4.3	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-4.3	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-4.4	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-4.4	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-4.4	Secured Storage	Scott McGonigal	02/11/13 15:29	Retrieve from Storage
JB28370-4.4	Scott McGonigal	GCMSI	02/11/13 15:29	Load on Instrument
JB28370-4.4	GCMSI	Scott McGonigal	02/11/13 17:08	Unload from Instrument
JB28370-4.4	Scott McGonigal	Secured Storage	02/12/13 09:50	Return to Storage
JB28370-4.5	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-4.5	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-5.1	Secured Storage	Todd Shoemaker	02/19/13 09:43	Retrieve from Storage
JB28370-5.1	Todd Shoemaker	Secured Staging Area	02/19/13 09:43	Return to Storage
JB28370-5.1	Secured Staging Area	Krimesh Patel	02/19/13 09:47	Retrieve from Storage
JB28370-5.1	Krimesh Patel	Secured Storage	02/19/13 15:00	Return to Storage
JB28370-5.3	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-5.3	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-5.3	Secured Storage	Emily Tran	02/12/13 10:16	Retrieve from Storage
JB28370-5.3	Emily Tran	Secured Storage	02/12/13 17:11	Return to Storage
JB28370-5.4	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/08/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB28370-5.4	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-5.4	Secured Storage	Scott McGonigal	02/15/13 14:42	Retrieve from Storage
JB28370-5.4	Scott McGonigal	GCMSI	02/15/13 14:42	Load on Instrument
JB28370-5.4	GCMSI	Scott McGonigal	02/18/13 13:31	Unload from Instrument
JB28370-5.4	Scott McGonigal		02/18/13 13:32	Depleted
JB28370-5.5	Secured Storage	Jayna Patel	02/08/13 13:15	Retrieve from Storage
JB28370-5.5	Jayna Patel	Secured Storage	02/08/13 13:38	Return to Storage
JB28370-5.5	Secured Storage	Robert Szot	02/14/13 15:37	Retrieve from Storage
JB28370-5.5	Robert Szot	GCMSY	02/14/13 15:37	Load on Instrument
JB28370-5.5	GCMSY	Robert Szot	02/15/13 11:53	Unload from Instrument
JB28370-5.5	Robert Szot		02/15/13 11:53	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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8381-MB	D205425.D	1	02/13/13	ET	n/a	n/a	VD8381

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

JB28370-3

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	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	70-122%
2037-26-5	Toluene-D8	98%	81-127%
460-00-4	4-Bromofluorobenzene	100%	66-132%

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

Method Blank Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8383-MB	D205459.D	1	02/14/13	ET	n/a	n/a	VD8383

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

JB28370-2

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	100%	70-122%
2037-26-5	Toluene-D8	98%	81-127%
460-00-4	4-Bromofluorobenzene	100%	66-132%

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

Method Blank Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7333-MB1	I181530.D	1	02/15/13	SJM	n/a	n/a	VI7333

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

JB28370-5

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	92%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-122%
2037-26-5	Toluene-D8	92%	81-127%
460-00-4	4-Bromofluorobenzene	120%	66-132%

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

Method Blank Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5654-MB	Y131344.D	1	02/25/13	RS	n/a	n/a	VY5654

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

JB28370-1

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	107%	70-130%
17060-07-0	1,2-Dichloroethane-D4	104%	70-122%
2037-26-5	Toluene-D8	106%	81-127%
460-00-4	4-Bromofluorobenzene	104%	66-132%

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

Blank Spike Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8381-BS	D205426.D	1	02/13/13	ET	n/a	n/a	VD8381

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

JB28370-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2950	118	31-168
71-43-2	Benzene	2500	2640	106	76-117
100-41-4	Ethylbenzene	2500	2530	101	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2580	103	68-134
108-88-3	Toluene	2500	2570	103	77-121
1330-20-7	Xylene (total)	7500	7500	100	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD8383-BS	D205460.D	1	02/14/13	ET	n/a	n/a	VD8383

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

JB28370-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2640	106	31-168
71-43-2	Benzene	2500	2670	107	76-117
100-41-4	Ethylbenzene	2500	2550	102	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2540	102	68-134
108-88-3	Toluene	2500	2580	103	77-121
1330-20-7	Xylene (total)	7500	7400	99	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	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%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI7333-BS	I181531.D	1	02/15/13	SJM	n/a	n/a	VI7333

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

JB28370-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	56.7	113	31-168
71-43-2	Benzene	50	47.9	96	76-117
100-41-4	Ethylbenzene	50	46.0	92	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	50	61.2	122	68-134
108-88-3	Toluene	50	45.6	91	77-121
1330-20-7	Xylene (total)	150	136	91	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	113%	70-122%
2037-26-5	Toluene-D8	104%	81-127%
460-00-4	4-Bromofluorobenzene	110%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY5654-BS	Y131345.D	1	02/25/13	RS	n/a	n/a	VY5654

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

JB28370-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	41.2	82	31-168
71-43-2	Benzene	50	41.3	83	76-117
100-41-4	Ethylbenzene	50	42.2	84	74-119
108-10-1	4-Methyl-2-pentanone(MIBK)	50	47.3	95	68-134
108-88-3	Toluene	50	40.6	81	77-121
1330-20-7	Xylene (total)	150	123	82	76-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	70-122%
2037-26-5	Toluene-D8	107%	81-127%
460-00-4	4-Bromofluorobenzene	99%	66-132%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29432-9MS	Y131353.D	1	02/25/13	RS	n/a	n/a	VY5654
JB29432-9	Y131350.D	1	02/25/13	RS	n/a	n/a	VY5654

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

JB28370-1

CAS No.	Compound	JB29432-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	9.1		46.6	60.5	110	10-198
71-43-2	Benzene	ND		46.6	34.4	74	44-130
100-41-4	Ethylbenzene	0.47	J	46.6	35.3	75	29-137
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		46.6	42.6	92	39-143
108-88-3	Toluene	0.33	J	46.6	34.4	73	40-135
1330-20-7	Xylene (total)	0.72	J	140	102	73	28-139

CAS No.	Surrogate Recoveries	MS	JB29432-9	Limits
1868-53-7	Dibromofluoromethane	106%	105%	70-130%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	70-122%
2037-26-5	Toluene-D8	107%	106%	81-127%
460-00-4	4-Bromofluorobenzene	97%	104%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB28374-6MS	D205433.D	1	02/13/13	ET	n/a	n/a	VD8381
JB28374-6MSD	D205434.D	1	02/13/13	ET	n/a	n/a	VD8381
JB28374-6	D205428.D	1	02/13/13	ET	n/a	n/a	VD8381

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

JB28370-3

CAS No.	Compound	JB28374-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		4280	4440	104	4840	113	9	10-198/35
71-43-2	Benzene	ND		4280	4460	104	4600	107	3	44-130/21
100-41-4	Ethylbenzene	ND		4280	4330	101	4500	105	4	29-137/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		4280	4220	99	4340	101	3	39-143/22
108-88-3	Toluene	ND		4280	4410	103	4560	106	3	40-135/22
1330-20-7	Xylene (total)	ND		12900	12600	98	13300	103	5	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB28374-6	Limits
1868-53-7	Dibromofluoromethane	96%	97%	94%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	97%	70-122%
2037-26-5	Toluene-D8	99%	99%	98%	81-127%
460-00-4	4-Bromofluorobenzene	96%	96%	101%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB28044-7MS	D205467.D	1	02/14/13	ET	n/a	n/a	VD8383
JB28044-7MSD	D205468.D	1	02/14/13	ET	n/a	n/a	VD8383
JB28044-7	D205470.D	1	02/14/13	ET	n/a	n/a	VD8383

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

JB28370-2

CAS No.	Compound	JB28044-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3900	3940	101	3960	102	1	10-198/35
71-43-2	Benzene	ND		3900	3940	101	4050	104	3	44-130/21
100-41-4	Ethylbenzene	ND		3900	3850	99	4010	103	4	29-137/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		3900	3740	96	3870	99	3	39-143/22
108-88-3	Toluene	ND		3900	3880	99	4020	103	4	40-135/22
1330-20-7	Xylene (total)	ND		11700	11200	96	11700	100	4	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB28044-7	Limits
1868-53-7	Dibromofluoromethane	98%	96%	95%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	98%	70-122%
2037-26-5	Toluene-D8	99%	99%	98%	81-127%
460-00-4	4-Bromofluorobenzene	98%	98%	101%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB28636-4MS	I181548.D	1	02/15/13	SJM	n/a	n/a	VI7333
JB28636-4MSD	I181549.D	1	02/15/13	SJM	n/a	n/a	VI7333
JB28636-4	I181547.D	1	02/15/13	SJM	n/a	n/a	VI7333

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

JB28370-5

CAS No.	Compound	JB28636-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		62	55.6	90	62.2	100	11	10-198/35
71-43-2	Benzene	ND		62	50.1	81	50.6	82	1	44-130/21
100-41-4	Ethylbenzene	ND		62	45.8	74	44.6	72	3	29-137/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		62	50.4	81	58.7	95	15	39-143/22
108-88-3	Toluene	3.6		62	48.2	72	49.7	74	3	40-135/22
1330-20-7	Xylene (total)	ND		186	131	70	128	69	2	28-139/25

CAS No.	Surrogate Recoveries	MS	MSD	JB28636-4	Limits
1868-53-7	Dibromofluoromethane	99%	102%	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	108%	112%	107%	70-122%
2037-26-5	Toluene-D8	106%	106%	106%	81-127%
460-00-4	4-Bromofluorobenzene	114%	116%	113%	66-132%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB29432-10DUP	Y131354.D	1	02/25/13	RS	n/a	n/a	VY5654
JB29432-10	Y131351.D	1	02/25/13	RS	n/a	n/a	VY5654

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

JB28370-1

CAS No.	Compound	JB29432-10 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	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)	1.2		0.39	J	102* [a]	26

CAS No.	Surrogate Recoveries	DUP	JB29432-10	Limits
1868-53-7	Dibromofluoromethane	104%	106%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	70-122%
2037-26-5	Toluene-D8	107%	105%	81-127%
460-00-4	4-Bromofluorobenzene	101%	103%	66-132%

(a) High RPD due to low concentration of hit

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB28370
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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD8381-BFB
Lab File ID: D205422.D
Instrument ID: GCMSD
Injection Date: 02/13/13
Injection Time: 08:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	94565	18.6		Pass
75	30.0 - 60.0% of mass 95	250432	49.2		Pass
95	Base peak, 100% relative abundance	509376	100.0		Pass
96	5.0 - 9.0% of mass 95	34986	6.87		Pass
173	Less than 2.0% of mass 174	1103	0.22	(0.27) [a]	Pass
174	50.0 - 120.0% of mass 95	407317	80.0		Pass
175	5.0 - 9.0% of mass 174	30450	5.98	(7.48) [a]	Pass
176	95.0 - 101.0% of mass 174	395754	77.7	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	27202	5.34	(6.87) [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
VD8381-CC8379	D205423.D	02/13/13	08:49	00:29	Continuing cal 20
VD8381-MB	D205425.D	02/13/13	09:58	01:38	Method Blank
VD8381-BS	D205426.D	02/13/13	10:27	02:07	Blank Spike
JB28374-6	D205428.D	02/13/13	11:25	03:05	(used for QC only; not part of job JB28370)
ZZZZZZ	D205429.D	02/13/13	11:55	03:35	(unrelated sample)
ZZZZZZ	D205430.D	02/13/13	12:24	04:04	(unrelated sample)
ZZZZZZ	D205431.D	02/13/13	12:53	04:33	(unrelated sample)
ZZZZZZ	D205432.D	02/13/13	13:22	05:02	(unrelated sample)
JB28374-6MS	D205433.D	02/13/13	13:51	05:31	Matrix Spike
JB28374-6MSD	D205434.D	02/13/13	14:21	06:01	Matrix Spike Duplicate
ZZZZZZ	D205435.D	02/13/13	14:50	06:30	(unrelated sample)
ZZZZZZ	D205436.D	02/13/13	15:19	06:59	(unrelated sample)
ZZZZZZ	D205437.D	02/13/13	15:49	07:29	(unrelated sample)
ZZZZZZ	D205438.D	02/13/13	16:18	07:58	(unrelated sample)
ZZZZZZ	D205439.D	02/13/13	16:47	08:27	(unrelated sample)
JB28370-3	D205440.D	02/13/13	17:17	08:57	AREAEC2_BOT
ZZZZZZ	D205442.D	02/13/13	18:15	09:55	(unrelated sample)
ZZZZZZ	D205443.D	02/13/13	18:44	10:24	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD8383-BFB
Lab File ID: D205455.D
Instrument ID: GCMSD
Injection Date: 02/14/13
Injection Time: 08:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	24261	18.8		Pass
75	30.0 - 60.0% of mass 95	62466	48.5		Pass
95	Base peak, 100% relative abundance	128730	100.0		Pass
96	5.0 - 9.0% of mass 95	8765	6.81		Pass
173	Less than 2.0% of mass 174	323	0.25	(0.30) [a]	Pass
174	50.0 - 120.0% of mass 95	108762	84.5		Pass
175	5.0 - 9.0% of mass 174	7884	6.12	(7.25) [a]	Pass
176	95.0 - 101.0% of mass 174	105450	81.9	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	7180	5.58	(6.81) [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
VD8383-CC8379	D205457.D	02/14/13	09:30	01:06	Continuing cal 20
VD8383-MB	D205459.D	02/14/13	10:39	02:15	Method Blank
VD8383-BS	D205460.D	02/14/13	11:17	02:53	Blank Spike
ZZZZZZ	D205462.D	02/14/13	12:31	04:07	(unrelated sample)
ZZZZZZ	D205463.D	02/14/13	13:01	04:37	(unrelated sample)
ZZZZZZ	D205464.D	02/14/13	13:30	05:06	(unrelated sample)
ZZZZZZ	D205465.D	02/14/13	14:00	05:36	(unrelated sample)
ZZZZZZ	D205466.D	02/14/13	14:29	06:05	(unrelated sample)
JB28044-7MS	D205467.D	02/14/13	14:58	06:34	Matrix Spike
JB28044-7MSD	D205468.D	02/14/13	15:27	07:03	Matrix Spike Duplicate
JB28044-7	D205470.D	02/14/13	16:26	08:02	(used for QC only; not part of job JB28370)
ZZZZZZ	D205471.D	02/14/13	16:55	08:31	(unrelated sample)
JB28370-1	D205472.D	02/14/13	17:25	09:01	AREAEC1_BOT
JB28370-2	D205473.D	02/14/13	17:54	09:30	AREAEC1_SW
ZZZZZZ	D205476.D	02/14/13	19:22	10:58	(unrelated sample)
ZZZZZZ	D205477.D	02/14/13	19:51	11:27	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VI7266-BFB1 **Injection Date:** 12/28/12
Lab File ID: I179916.D **Injection Time:** 09:45
Instrument ID: GCMSI

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6103	20.1		Pass
75	30.0 - 60.0% of mass 95	14826	48.7		Pass
95	Base peak, 100% relative abundance	30426	100.0		Pass
96	5.0 - 9.0% of mass 95	2050	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	23829	78.3		Pass
175	5.0 - 9.0% of mass 174	1991	6.54	(8.36) [a]	Pass
176	95.0 - 101.0% of mass 174	23168	76.1	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	1560	5.13	(6.73) [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
VI7266-IC7266	I179917.D	12/28/12	10:21	00:36	Initial cal 0.5
VI7266-IC7266	I179918.D	12/28/12	10:50	01:05	Initial cal 1
VI7266-IC7266	I179919.D	12/28/12	11:30	01:45	Initial cal 2
VI7266-IC7266	I179920.D	12/28/12	11:58	02:13	Initial cal 5
VI7266-IC7266	I179921.D	12/28/12	12:27	02:42	Initial cal 10
VI7266-IC7266	I179922.D	12/28/12	12:56	03:11	Initial cal 20
VI7266-ICC7266	I179923.D	12/28/12	13:25	03:40	Initial cal 50
VI7266-IC7266	I179924.D	12/28/12	13:53	04:08	Initial cal 100
VI7266-IC7266	I179925.D	12/28/12	14:22	04:37	Initial cal 200
VI7266-ICV7266	I179927.D	12/28/12	15:26	05:41	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VI7333-BFB
Lab File ID: I181527.D
Instrument ID: GCMSI
Injection Date: 02/15/13
Injection Time: 12:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14559	20.9		Pass
75	30.0 - 60.0% of mass 95	33664	48.3		Pass
95	Base peak, 100% relative abundance	69656	100.0		Pass
96	5.0 - 9.0% of mass 95	4409	6.33		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	54858	78.8		Pass
175	5.0 - 9.0% of mass 174	4588	6.59	(8.36) [a]	Pass
176	95.0 - 101.0% of mass 174	53298	76.5	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3563	5.12	(6.69) [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
VI7333-CC7266	I181528.D	02/15/13	12:40	00:40	Continuing cal 50
VI7333-MB1	I181530.D	02/15/13	14:18	02:18	Method Blank
VI7333-BS	I181531.D	02/15/13	14:51	02:51	Blank Spike
ZZZZZZ	I181533.D	02/15/13	15:50	03:50	(unrelated sample)
ZZZZZZ	I181534.D	02/15/13	16:19	04:19	(unrelated sample)
ZZZZZZ	I181535.D	02/15/13	16:48	04:48	(unrelated sample)
ZZZZZZ	I181536.D	02/15/13	17:17	05:17	(unrelated sample)
ZZZZZZ	I181537.D	02/15/13	17:46	05:46	(unrelated sample)
ZZZZZZ	I181538.D	02/15/13	18:15	06:15	(unrelated sample)
ZZZZZZ	I181539.D	02/15/13	18:44	06:44	(unrelated sample)
ZZZZZZ	I181540.D	02/15/13	19:12	07:12	(unrelated sample)
ZZZZZZ	I181541.D	02/15/13	19:41	07:41	(unrelated sample)
ZZZZZZ	I181542.D	02/15/13	20:10	08:10	(unrelated sample)
ZZZZZZ	I181543.D	02/15/13	20:39	08:39	(unrelated sample)
JB28370-5	I181544.D	02/15/13	21:08	09:08	AREAEC3_BOT
ZZZZZZ	I181545.D	02/15/13	21:37	09:37	(unrelated sample)
ZZZZZZ	I181546.D	02/15/13	22:05	10:05	(unrelated sample)
JB28636-4	I181547.D	02/15/13	22:34	10:34	(used for QC only; not part of job JB28370)
JB28636-4MS	I181548.D	02/15/13	23:03	11:03	Matrix Spike
JB28636-4MSD	I181549.D	02/15/13	23:32	11:32	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VY5578-BFB
Lab File ID: Y129648.D
Instrument ID: GCMSY
Injection Date: 01/07/13
Injection Time: 10:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7385	16.4		Pass
75	30.0 - 60.0% of mass 95	20656	45.9		Pass
95	Base peak, 100% relative abundance	45010	100.0		Pass
96	5.0 - 9.0% of mass 95	3227	7.17		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	40456	89.9		Pass
175	5.0 - 9.0% of mass 174	3264	7.25	(8.07) [a]	Pass
176	95.0 - 101.0% of mass 174	39624	88.0	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	2762	6.14	(6.97) [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
VY5578-IC5578	Y129649.D	01/07/13	11:49	01:13	Initial cal 10
VY5578-IC5578	Y129650.D	01/07/13	12:25	01:49	Initial cal 5
VY5578-IC5578	Y129651.D	01/07/13	12:55	02:19	Initial cal 2
VY5578-IC5578	Y129652.D	01/07/13	13:24	02:48	Initial cal 1
VY5578-IC5578	Y129653.D	01/07/13	13:53	03:17	Initial cal 0.5
VY5578-IC5578	Y129654.D	01/07/13	14:22	03:46	Initial cal 20
VY5578-ICC5578	Y129655.D	01/07/13	14:51	04:15	Initial cal 50
VY5578-IC5578	Y129656.D	01/07/13	15:20	04:44	Initial cal 75
VY5578-IC5578	Y129657.D	01/07/13	15:50	05:14	Initial cal 100
VY5578-IC5578	Y129658.D	01/07/13	16:19	05:43	Initial cal 200
VY5578-ICV5578	Y129660.D	01/07/13	17:55	07:19	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VY5654-BFB
Lab File ID: Y131342.D
Instrument ID: GCMSY
Injection Date: 02/25/13
Injection Time: 09:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	4609	17.4		Pass
75	30.0 - 60.0% of mass 95	12539	47.2		Pass
95	Base peak, 100% relative abundance	26541	100.0		Pass
96	5.0 - 9.0% of mass 95	1725	6.50		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	24365	91.8		Pass
175	5.0 - 9.0% of mass 174	2001	7.54	(8.21) [a]	Pass
176	95.0 - 101.0% of mass 174	23440	88.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	1539	5.80	(6.57) [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
VY5654-CC5578	Y131343.D	02/25/13	10:25	00:32	Continuing cal 20
VY5654-MB	Y131344.D	02/25/13	11:01	01:08	Method Blank
VY5654-BS	Y131345.D	02/25/13	11:34	01:41	Blank Spike
ZZZZZZ	Y131346.D	02/25/13	12:12	02:19	(unrelated sample)
ZZZZZZ	Y131347.D	02/25/13	12:41	02:48	(unrelated sample)
ZZZZZZ	Y131348.D	02/25/13	13:10	03:17	(unrelated sample)
ZZZZZZ	Y131349.D	02/25/13	13:40	03:47	(unrelated sample)
JB29432-9	Y131350.D	02/25/13	14:09	04:16	(used for QC only; not part of job JB28370)
JB29432-10	Y131351.D	02/25/13	14:38	04:45	(used for QC only; not part of job JB28370)
JB28370-1	Y131352.D	02/25/13	15:08	05:15	AREAEC1_BOT
JB29432-9MS	Y131353.D	02/25/13	15:37	05:44	Matrix Spike
JB29432-10DUP	Y131354.D	02/25/13	16:06	06:13	Duplicate
ZZZZZZ	Y131355.D	02/25/13	16:35	06:42	(unrelated sample)
ZZZZZZ	Y131356.D	02/25/13	17:04	07:11	(unrelated sample)
ZZZZZZ	Y131357.D	02/25/13	17:34	07:41	(unrelated sample)
ZZZZZZ	Y131358.D	02/25/13	18:03	08:10	(unrelated sample)
ZZZZZZ	Y131359.D	02/25/13	18:32	08:39	(unrelated sample)
ZZZZZZ	Y131360.D	02/25/13	19:01	09:08	(unrelated sample)
ZZZZZZ	Y131361.D	02/25/13	19:31	09:38	(unrelated sample)
ZZZZZZ	Y131362.D	02/25/13	20:00	10:07	(unrelated sample)
ZZZZZZ	Y131364.D	02/25/13	20:58	11:05	(unrelated sample)
ZZZZZZ	Y131365.D	02/25/13	21:28	11:35	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VD8381-CC8379	**Injection Date:**	02/13/13
Lab File ID:	D205423.D	**Injection Time:**	08:49
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	140756	8.01	212856	10.25	329287	11.17	305946	14.51	186965	17.10
Upper Limit [a]	281512	8.51	425712	10.75	658574	11.67	611892	15.01	373930	17.60
Lower Limit [b]	70378	7.51	106428	9.75	164644	10.67	152973	14.01	93483	16.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD8381-MB	134861	8.08	208875	10.25	323359	11.17	305157	14.51	181058	17.10
VD8381-BS	136257	8.03	209457	10.25	325572	11.17	301840	14.51	186294	17.10
JB28374-6	128783	8.03	211637	10.25	328303	11.17	302823	14.51	176242	17.10
ZZZZZZ	124953	8.04	206563	10.25	317703	11.17	300441	14.51	176293	17.10
ZZZZZZ	125348	8.03	208548	10.25	319957	11.17	298704	14.51	173256	17.10
ZZZZZZ	129985	8.02	210492	10.25	325961	11.17	300196	14.51	176730	17.10
ZZZZZZ	133492	8.01	214132	10.25	336028	11.17	308669	14.51	193949	17.10
JB28374-6MS	143474	8.04	216349	10.25	334821	11.17	307863	14.51	190417	17.10
JB28374-6MSD	140662	8.03	216333	10.25	336004	11.17	307125	14.51	189827	17.10
ZZZZZZ	132364	8.02	215236	10.25	328901	11.17	309253	14.51	181782	17.10
ZZZZZZ	142062	8.01	217481	10.25	332307	11.17	305815	14.51	178754	17.10
ZZZZZZ	137566	8.02	211354	10.25	328878	11.17	302080	14.51	176979	17.10
ZZZZZZ	132624	8.01	213351	10.25	328933	11.17	304193	14.51	174956	17.10
ZZZZZZ	128772	8.04	213456	10.25	328239	11.16	304925	14.51	180989	17.10
JB28370-3	136317	8.04	217164	10.25	332499	11.17	305383	14.51	178362	17.10
ZZZZZZ	140132	8.05	211604	10.25	327158	11.17	304007	14.51	192446	17.10
ZZZZZZ	131943	8.03	214194	10.25	331260	11.17	309329	14.51	199081	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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VD8383-CC8379	**Injection Date:**	02/14/13
Lab File ID:	D205457.D	**Injection Time:**	09:30
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	136809	8.02	214612	10.25	332317	11.17	290583	14.51	174558	17.10
Upper Limit [a]	273618	8.52	429224	10.75	664634	11.67	581166	15.01	349116	17.60
Lower Limit [b]	68405	7.52	107306	9.75	166159	10.67	145292	14.01	87279	16.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD8383-MB	109775	8.05	209320	10.25	322600	11.16	297038	14.51	173066	17.09
VD8383-BS	142826	8.02	209006	10.25	320599	11.16	292798	14.51	177176	17.09
ZZZZZZ	136465	8.11	207224	10.25	317681	11.17	293187	14.51	174531	17.09
ZZZZZZ	106191	8.07	204116	10.25	314461	11.17	290151	14.51	169773	17.09
ZZZZZZ	108091	8.05	205389	10.25	314345	11.17	290980	14.51	169141	17.10
ZZZZZZ	101253	8.03	208476	10.25	322205	11.17	296264	14.51	171054	17.09
ZZZZZZ	124460	8.05	207057	10.25	317401	11.17	293071	14.51	172560	17.09
JB28044-7MS	119868	8.02	210813	10.25	329563	11.17	303017	14.51	182091	17.09
JB28044-7MSD	126857	8.02	210647	10.25	325613	11.17	297423	14.51	179917	17.10
JB28044-7	133758	8.03	211792	10.25	324408	11.16	299958	14.51	173427	17.09
ZZZZZZ	126462	8.02	208680	10.25	320812	11.17	297134	14.51	172520	17.09
JB28370-1 [c]	134490	8.03	207443	10.25	320947	11.16	295331	14.51	172604	17.09
JB28370-2 [d]	124611	8.08	198835	10.25	308854	11.17	286404	14.51	166301	17.10
ZZZZZZ	130492	8.02	203132	10.25	313241	11.17	289830	14.51	164328	17.10
ZZZZZZ	131798	8.01	201390	10.25	309306	11.17	288626	14.51	161475	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) Confirmation run.
(d) Diluted due to high concentration of target compound.

Volatile Internal Standard Area Summary

Job Number: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VI7333-CC7266	**Injection Date:**	02/15/13
Lab File ID:	I181528.D	**Injection Time:**	12:40
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	114689	7.22	213417	9.48	339861	10.39	254580	13.56	131849	15.92
Upper Limit [a]	229378	7.72	426834	9.98	679722	10.89	509160	14.06	263698	16.42
Lower Limit [b]	57345	6.72	106709	8.98	169931	9.89	127290	13.06	65925	15.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VI7333-MB1	79609	7.21	198322	9.47	295771	10.39	227968	13.56	103684	15.92
VI7333-BS	141366	7.21	214825	9.47	340069	10.39	261411	13.56	135008	15.92
ZZZZZZ	89945	7.22	164944	9.48	276798	10.39	151683	13.56	17510*	15.92
ZZZZZZ	81741	7.22	180627	9.48	280257	10.39	208830	13.56	95907	15.92
ZZZZZZ	85517	7.21	192860	9.48	298211	10.40	219473	13.56	98117	15.92
ZZZZZZ	76004	7.21	175591	9.47	262586	10.39	167698	13.56	36742*	15.92
ZZZZZZ	74335	7.21	197609	9.48	284641	10.39	209474	13.56	101373	15.93
ZZZZZZ	86759	7.21	188575	9.48	298635	10.39	218800	13.56	94889	15.92
ZZZZZZ	74674	7.21	186414	9.47	293069	10.39	216192	13.56	91602	15.92
ZZZZZZ	67102	7.22	179906	9.47	269132	10.39	213617	13.56	96511	15.92
ZZZZZZ	86598	7.21	193860	9.48	298858	10.39	205431	13.56	101342	15.92
ZZZZZZ	87882	7.21	180899	9.47	291980	10.39	223482	13.56	104393	15.92
ZZZZZZ	79099	7.21	178153	9.48	262497	10.39	185889	13.56	50343*	15.92
JB28370-5	42521*	7.21	145860	9.48	236923	10.39	174094	13.56	73204	15.92
ZZZZZZ	83316	7.22	184108	9.48	269551	10.39	205772	13.56	93895	15.92
ZZZZZZ	75961	7.21	174101	9.48	281043	10.39	213757	13.56	99333	15.92
JB28636-4	81130	7.22	192518	9.47	303838	10.39	228939	13.56	111377	15.92
JB28636-4MS	91230	7.21	188499	9.47	302800	10.39	227840	13.56	113471	15.92
JB28636-4MSD	92235	7.22	189626	9.48	306191	10.39	232743	13.56	115086	15.92

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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VY5654-CC5578	**Injection Date:**	02/25/13
Lab File ID:	Y131343.D	**Injection Time:**	10:25
Instrument ID:	GCMSY	**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	49802	7.65	111311	9.82	160156	10.74	124759	13.83	60479	16.11
Upper Limit [a]	99604	8.15	222622	10.32	320312	11.24	249518	14.33	120958	16.61
Lower Limit [b]	24901	7.15	55656	9.32	80078	10.24	62380	13.33	30240	15.61

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VY5654-MB	46504	7.65	112857	9.82	162750	10.74	126245	13.83	57183	16.11
VY5654-BS	43685	7.65	112753	9.82	160527	10.74	126830	13.83	60678	16.11
ZZZZZZ	54554	7.64	128638	9.82	185999	10.74	143639	13.83	70988	16.11
ZZZZZZ	56385	7.65	139934	9.82	201070	10.74	155559	13.83	76185	16.11
ZZZZZZ	40817	7.65	135610	9.82	187753	10.74	143386	13.83	66834	16.11
ZZZZZZ	39730	7.65	130998	9.82	181905	10.74	138605	13.83	64298	16.11
JB29432-9	50771	7.65	123928	9.82	176333	10.74	135576	13.83	63799	16.11
JB29432-10	47313	7.65	125704	9.82	179057	10.74	134813	13.83	63095	16.11
JB28370-1 [c]	43731	7.66	117998	9.82	167189	10.74	128471	13.83	58655	16.11
JB29432-9MS	47823	7.65	112250	9.82	163052	10.74	129772	13.83	64537	16.11
JB29432-10DUP	45205	7.65	126715	9.82	179061	10.74	136549	13.83	64065	16.11
ZZZZZZ	41384	7.66	121981	9.82	171830	10.74	131991	13.83	60934	16.11
ZZZZZZ	45623	7.65	118482	9.82	169816	10.74	128643	13.83	59876	16.11
ZZZZZZ	47407	7.65	119548	9.82	170167	10.74	131954	13.83	60744	16.11
ZZZZZZ	42544	7.65	112348	9.82	160508	10.74	121594	13.83	56242	16.11
ZZZZZZ	43430	7.65	109321	9.82	156565	10.74	120849	13.83	55027	16.11
ZZZZZZ	43437	7.65	116454	9.82	167184	10.74	126727	13.83	59017	16.11
ZZZZZZ	37153	7.66	115381	9.82	164496	10.74	124291	13.83	55895	16.11
ZZZZZZ	40929	7.65	106755	9.82	153084	10.74	116189	13.83	54756	16.11
ZZZZZZ	53893	7.65	142609	9.82	198968	10.74	156179	13.83	72667	16.11
ZZZZZZ	49578	7.65	146185	9.83	205706	10.74	158522	13.83	79908	16.11

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) Sample analyzed outside the holding time but the original run within holding time.

Volatile Surrogate Recovery Summary

Job Number: JB28370
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
JB28370-1	Y131352.D	108.0	109.0	106.0	105.0
JB28370-1	D205472.D	97.0	101.0	99.0	100.0
JB28370-2	D205473.D	99.0	102.0	99.0	99.0
JB28370-3	D205440.D	94.0	98.0	99.0	101.0
JB28370-5	I181544.D	93.0	100.0	103.0	115.0
JB28044-7MS	D205467.D	98.0	99.0	99.0	98.0
JB28044-7MSD	D205468.D	96.0	98.0	99.0	98.0
JB28374-6MS	D205433.D	96.0	97.0	99.0	96.0
JB28374-6MSD	D205434.D	97.0	97.0	99.0	96.0
JB28636-4MS	I181548.D	99.0	108.0	106.0	114.0
JB28636-4MSD	I181549.D	102.0	112.0	106.0	116.0
JB29432-10DUP	Y131354.D	104.0	103.0	107.0	101.0
JB29432-9MS	Y131353.D	106.0	104.0	107.0	97.0
VD8381-BS	D205426.D	98.0	98.0	100.0	97.0
VD8381-MB	D205425.D	96.0	101.0	98.0	100.0
VD8383-BS	D205460.D	96.0	98.0	99.0	98.0
VD8383-MB	D205459.D	94.0	100.0	98.0	100.0
VI7333-BS	I181531.D	102.0	113.0	104.0	110.0
VI7333-MB1	I181530.D	92.0	96.0	92.0	120.0
VY5654-BS	Y131345.D	104.0	98.0	107.0	99.0
VY5654-MB	Y131344.D	107.0	104.0	106.0	104.0

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: JB28370 **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: JB28370 **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: JB28370 **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
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VD8379-ICC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205391.D
Project: BMSMC, Building 5 Area, PR

```
            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: JB28370 **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: JB28370 **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: JB28370 **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: JB28370 **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

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8381-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205423.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\d205423.D Vial: 2
Acq On : 13 Feb 2013 8:49 am Operator: EmilyT
Sample : cc8379-20 Inst : MSD
Misc : ms42756,vd8381,5,,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	107	0.00	8.01
2	M	1,4-dioxane	0.095	0.095	0.0	102	0.00	11.89
3	M	tertiary butyl alcohol	1.065	1.154	-8.4	107	0.00	8.13
4	I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	10.25
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.547	0.565	-3.3	113	0.00	4.57
7	M	dichlorodifluoromethane	0.670	0.703	-4.9	108	0.00	4.54
8	M	chloromethane	0.746	0.702	5.9	101	-0.01	4.90
9	M	vinyl chloride	0.757	0.768	-1.5	106	-0.02	5.18
10	M	bromomethane	0.424	0.443	-4.5	102	0.00	5.87
11	M	chloroethane	0.425	0.407	4.2	102	0.00	6.05
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.803	0.867	-8.0	111	0.00	6.57
14		pentane		----------NA----------				
15	M	ethyl ether	0.356	0.325	8.7	104	0.00	6.95
16	M	acrolein	0.143	0.131	8.4	102	0.00	7.18
17	M	chlorotrifluoroethene		----------NA----------				
18	M	2-chloropropane	1.048	1.001	4.5	110	0.00	7.16
19	M	1,1-dichloroethene	0.506	0.502	0.8	107	0.00	7.39
20	M	acetone	0.056	0.059	-5.4	105	0.00	7.39
21	M	allyl chloride	1.209	1.171	3.1	98	0.00	7.90
22	M	acetonitrile	0.028	0.038	-35.7#	153	0.01	7.82
23	M	acetaldehyde		----------NA----------				
24	M	iodomethane	0.896	0.912	-1.8	104	0.00	7.65
25	M	iso-butyl alcohol		----------NA----------				
26	M	carbon disulfide	1.741	1.765	-1.4	106	0.00	7.79
27	M	methylene chloride	0.622	0.576	7.4	103	0.00	8.07
28	M	1-chloropropane	1.049	0.979	6.7	105	0.00	8.13
29	M	methyl acetate	0.526	0.499	5.1	104	0.00	7.87
30	M	methyl tert butyl ether	1.694	1.718	-1.4	103	0.00	8.43
31	M	trans-1,2-dichloroethene	0.526	0.525	0.2	107	0.00	8.46
32	M	di-isopropyl ether	1.786	1.845	-3.3	107	0.00	9.03
33	M	ethyl tert-butyl ether	1.783	1.872	-5.0	107	0.00	9.49
34	M	2-butanone	0.071	0.072	-1.4	101	0.00	9.69
35	M	1,1-dichloroethane	0.941	0.977	-3.8	106	0.00	9.01
36	M	chloroprene	0.748	0.803	-7.4	111	0.00	9.13
37	M	acrylonitrile	0.232	0.237	-2.2	102	0.00	8.37
38	M	vinyl acetate	0.113	0.110	2.7	103	0.00	8.99
39	M	ethyl acetate	0.086	0.084	2.3	101	0.00	9.72
40	M	2,2-dichloropropane	0.693	0.792	-14.3	121	-0.01	9.76
41	M	cis-1,2-dichloroethene	0.562	0.578	-2.8	107	0.00	9.73

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8381-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205423.D
Project: BMSMC, Building 5 Area, PR

42	M	propionitrile	0.091	0.094	-3.3	102	0.00	9.77
43	M	bromochloromethane	0.270	0.272	-0.7	103	0.00	10.03
44	M	tetrahydrofuran	0.086	0.081	5.8	100	0.00	10.10
45	M	chloroform	0.866	0.895	-3.3	106	0.00	10.09
46	S	dibromofluoromethane (s)	0.488	0.471	3.5	103	0.00	10.28
47	S	1,2-dichloroethane-d4 (s)	0.590	0.576	2.4	101	0.00	10.71
48	M	freon 113	0.354	0.371	-4.8	113	0.00	7.38
49	M	methacrylonitrile	0.392	0.383	2.3	103	0.00	9.97
50	m	t-butyl formate	0.562	0.573	-2.0	106	0.00	10.16
51	M	1,1,1-trichloroethane	0.758	0.798	-5.3	108	0.00	10.38
52	M	tert-amyl methyl ether	1.764	1.777	-0.7	106	0.00	10.86
53	I	1,4-difluorobenzene	1.000	1.000	0.0	109	0.00	11.17
54	M	cyclohexane	0.518	0.551	-6.4	114	0.00	10.48
55		tert amyl alcohol		----------NA----------				
56	M	2,2,4-trimethylpentane	1.245	1.315	-5.6	112	0.00	10.86
57	M	epichlorohydrin	0.042	0.045	-7.1	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	0.453	-5.3	110	0.00	10.59
60	M	1,1-dichloropropene	0.445	0.463	-4.0	107	0.00	10.55
61	M	hexane	0.409	0.406	0.7	111	0.00	8.79
62	M	benzene	1.325	1.341	-1.2	104	0.00	10.81
63	M	heptane	0.230	0.237	-3.0	111	0.00	11.02
64	M	isopropyl acetate	0.724	0.722	0.3	106	0.00	10.72
65	M	1,2-dichloroethane	0.445	0.468	-5.2	103	0.00	10.80
66		Ethyl Acrylate		----------NA----------				
67	M	trichloroethene	0.326	0.333	-2.1	105	0.00	11.52
68	M	2-nitropropane	0.977	0.962	1.5	103	0.00	12.31
69	M	2-chloroethyl vinyl ether	0.249	0.252	-1.2	104	0.00	12.31
70	M	methyl methacrylate	0.098	0.096	2.0	100	0.00	11.78
71	M	tert-amyl ethyl ether		----------NA----------				
72	M	1,2-dichloropropane	0.356	0.362	-1.7	104	0.00	11.78
73	M	methylcyclohexane	0.552	0.589	-6.7	115	0.00	11.78
74	M	dibromomethane	0.210	0.216	-2.9	101	0.00	11.92
75	M	bromodichloromethane	0.433	0.446	-3.0	102	0.00	12.06
76	M	cis-1,3-dichloropropene	0.561	0.575	-2.5	101	0.00	12.54
77	S	toluene-d8 (s)	1.212	1.199	1.1	106	0.00	12.88
78	M	4-methyl-2-pentanone	0.156	0.157	-0.6	102	0.00	12.66
79	M	toluene	0.826	0.826	0.0	102	0.00	12.95
80	M	3-methyl-1-butanol	0.012	0.012	0.0	101	0.00	12.64
81	M	trans-1,3-dichloropropene	0.530	0.540	-1.9	102	0.00	13.13
82	M	ethyl methacrylate	0.496	0.496	0.0	100	0.00	13.14
83	M	1,1,2-trichloroethane	0.261	0.261	0.0	102	0.00	13.36
84	M	2-hexanone	0.142	0.143	-0.7	99	0.00	13.56
85	I	chlorobenzene-d5	1.000	1.000	0.0	111	0.00	14.51
86	M	tetrachloroethene	0.409	0.392	4.2	102	0.00	13.59
87	M	1,3-dichloropropane	0.600	0.595	0.8	101	0.00	13.56
88	M	butyl acetate	0.264	0.278	-5.3	108	0.00	13.65
89	m	3,3-dimethyl-1-butanol	0.047	0.045	4.3	99	0.00	13.73
90	M	dibromochloromethane	0.381	0.369	3.1	101	0.00	13.84
91	M	1,2-dibromoethane	0.353	0.355	-0.6	102	0.00	14.02
92	M	chlorobenzene	1.016	0.994	2.2	103	0.00	14.54
93	M	1,1,1,2-tetrachloroethane	0.376	0.371	1.3	102	0.00	14.60
94	M	ethylbenzene	1.766	1.731	2.0	106	0.00	14.62
95	M	m,p-xylene	0.704	0.673	4.4	106	0.00	14.73
96	M	o-xylene	0.698	0.660	5.4	103	0.00	15.20
97	M	styrene	1.176	1.143	2.8	102	0.00	15.20
98	M	bromoform	0.295	0.292	1.0	105	0.00	15.47

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8381-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205423.D
Project: BMSMC, Building 5 Area, PR

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	17.10
100	M	isopropylbenzene	2.987	2.909	2.6	107	0.00	15.58
101	S	4-bromofluorobenzene (s)	0.908	0.883	2.8	108	0.00	15.79
102	M	bromobenzene	0.812	0.780	3.9	104	0.00	16.01
103	M	cyclohexanone	0.023	0.017	26.1#	72	0.00	15.74
104	M	1,1,2,2-tetrachloroethane	0.921	0.853	7.4	104	0.00	15.88
105	M	trans-1,4-dichloro-2-bute	0.251	0.252	-0.4	105	0.00	15.93
106	M	1,2,3-trichloropropane	0.262	0.244	6.9	105	0.00	15.97
107	M	n-propylbenzene	3.560	3.407	4.3	108	0.00	16.04
108	M	p-ethyltoluene		----------NA----------				
109	M	2-chlorotoluene	0.742	0.705	5.0	103	0.00	16.20
110	M	4-chlorotoluene	2.324	2.192	5.7	106	0.00	16.31
111	M	1,3,5-trimethylbenzene	2.777	2.542	8.5	106	0.00	16.21
112	M	tert-butylbenzene	2.331	2.188	6.1	103	0.00	16.60
113	M	pentachloroethane	0.520	0.490	5.8	101	0.00	16.67
114	M	1,2,4-trimethylbenzene	2.823	2.602	7.8	104	0.00	16.65
115	M	sec-butylbenzene	3.433	3.302	3.8	107	0.00	16.84
116	M	1,3-dichlorobenzene	1.601	1.491	6.9	103	0.00	17.03
117	M	p-isopropyltoluene	2.843	2.707	4.8	104	0.00	16.98
118	M	1,4-dichlorobenzene	1.671	1.530	8.4	101	0.00	17.12
119		Benzyl Chloride	1.528	1.698	-11.1	120	0.00	17.24
120	M	p-diethylbenzene		----------NA----------				
121	M	1,2-dichlorobenzene	1.627	1.467	9.8	99	0.00	17.56
122	M	n-butylbenzene	1.562	1.411	9.7	100	0.00	17.43
123	M	1,2,4,5-tetramethylbenzen		----------NA----------				
124	M	1,2-dibromo-3-chloropropa	0.179	0.161	10.1	96	0.00	18.40
125	M	1,3,5-trichlorobenzene	1.241	1.160	6.5	100	0.00	18.64
126	M	1,2,4-trichlorobenzene	1.006	0.969	3.7	97	0.00	19.37
127	M	hexachlorobutadiene	0.586	0.571	2.6	106	0.00	19.52
128	M	naphthalene	2.212	2.200	0.5	94	0.00	19.69
129	M	1,2,3-trichlorobenzene	0.810	0.826	-2.0	96	0.00	19.97
130	M	hexachloroethane	0.538	0.507	5.8	103	0.00	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d205390.D MD8379.M Wed Feb 13 09:28:42 2013

6.9.3

6

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8383-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205457.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\d205457.D                    Vial: 3
Acq On    : 14 Feb 2013   9:30 am                     Operator: EmilyT
Sample    : cc8379-20                                 Inst    : MSD
Misc      : ms42950,vd8383,5,,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	104	0.00	8.02
2	M	1,4-dioxane	0.095	0.109	-14.7	114	0.00	11.89
3	M	tertiary butyl alcohol	1.065	1.222	-14.7	110	0.00	8.13
4	I	pentafluorobenzene	1.000	1.000	0.0	111	0.00	10.25
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.547	0.583	-6.6	117	0.00	4.56
7	M	dichlorodifluoromethane	0.670	0.608	9.3	94	0.00	4.55
8	M	chloromethane	0.746	0.643	13.8	94	-0.01	4.90
9	M	vinyl chloride	0.757	0.707	6.6	98	-0.02	5.18
10	M	bromomethane	0.424	0.412	2.8	96	0.00	5.86
11	M	chloroethane	0.425	0.379	10.8	96	0.00	6.05
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.803	0.792	1.4	103	0.00	6.57
14		pentane		----------NA----------				
15	M	ethyl ether	0.356	0.316	11.2	101	0.00	6.96
16	M	acrolein	0.143	0.132	7.7	104	0.00	7.18
17	M	chlorotrifluoroethene		----------NA----------				
18	M	2-chloropropane	1.048	0.967	7.7	107	0.00	7.16
19	M	1,1-dichloroethene	0.506	0.478	5.5	103	-0.01	7.39
20	M	acetone	0.056	0.060	-7.1	108	0.00	7.40
21	M	allyl chloride	1.209	1.158	4.2	97	0.00	7.90
22	M	acetonitrile	0.028	0.038	-35.7#	153	0.02	7.83
23	M	acetaldehyde		----------NA----------				
24	M	iodomethane	0.896	0.870	2.9	100	0.00	7.66
25	M	iso-butyl alcohol		----------NA----------				
26	M	carbon disulfide	1.741	1.703	2.2	103	0.00	7.79
27	M	methylene chloride	0.622	0.555	10.8	100	0.00	8.07
28	M	1-chloropropane	1.049	0.935	10.9	101	0.00	8.13
29	M	methyl acetate	0.526	0.511	2.9	107	0.00	7.87
30	M	methyl tert butyl ether	1.694	1.684	0.6	102	0.00	8.44
31	M	trans-1,2-dichloroethene	0.526	0.498	5.3	102	0.00	8.46
32	M	di-isopropyl ether	1.786	1.840	-3.0	108	0.00	9.03
33	M	ethyl tert-butyl ether	1.783	1.884	-5.7	109	0.00	9.49
34	M	2-butanone	0.071	0.068	4.2	96	0.00	9.70
35	M	1,1-dichloroethane	0.941	0.926	1.6	102	0.00	9.01
36	M	chloroprene	0.748	0.795	-6.3	111	0.00	9.13
37	M	acrylonitrile	0.232	0.233	-0.4	101	0.00	8.37
38	M	vinyl acetate	0.113	0.109	3.5	104	0.00	9.00
39	M	ethyl acetate	0.086	0.084	2.3	102	-0.01	9.72
40	M	2,2-dichloropropane	0.693	0.789	-13.9	122	0.00	9.77
41	M	cis-1,2-dichloroethene	0.562	0.543	3.4	102	0.00	9.73

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8383-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205457.D
Project: BMSMC, Building 5 Area, PR

42	M	propionitrile	0.091	0.092	-1.1	100	0.00	9.77
43	M	bromochloromethane	0.270	0.267	1.1	102	0.00	10.03
44	M	tetrahydrofuran	0.086	0.084	2.3	105	0.00	10.09
45	M	chloroform	0.866	0.866	0.0	103	0.00	10.08
46	S	dibromofluoromethane (s)	0.488	0.465	4.7	103	0.00	10.28
47	S	1,2-dichloroethane-d4 (s)	0.590	0.570	3.4	101	0.00	10.71
48	M	freon 113	0.354	0.395	-11.6	121	0.00	7.37
49	M	methacrylonitrile	0.392	0.363	7.4	98	0.00	9.96
50	m	t-butyl formate	0.562	0.585	-4.1	109	0.00	10.16
51	M	1,1,1-trichloroethane	0.758	0.784	-3.4	107	0.00	10.38
52	M	tert-amyl methyl ether	1.764	1.835	-4.0	110	0.00	10.86
53	I	1,4-difluorobenzene	1.000	1.000	0.0	110	0.00	11.17
54	M	cyclohexane	0.518	0.544	-5.0	113	0.00	10.48
55		tert amyl alcohol		----------NA----------				
56	M	2,2,4-trimethylpentane	1.245	1.485	-19.3	127	0.00	10.86
57	M	epichlorohydrin	0.042	0.048	-14.3	115	0.00	12.43
58	M	n-butyl alcohol	0.013	0.013	0.0	108	0.00	11.25
59	M	carbon tetrachloride	0.430	0.445	-3.5	109	0.00	10.59
60	M	1,1-dichloropropene	0.445	0.447	-0.4	104	0.00	10.55
61	M	hexane	0.409	0.453	-10.8	125	0.00	8.80
62	M	benzene	1.325	1.309	1.2	103	0.00	10.81
63	M	heptane	0.230	0.277	-20.4#	130	0.00	11.02
64	M	isopropyl acetate	0.724	0.730	-0.8	108	0.00	10.72
65	M	1,2-dichloroethane	0.445	0.464	-4.3	104	0.00	10.80
66		Ethyl Acrylate		----------NA----------				
67	M	trichloroethene	0.326	0.327	-0.3	104	0.00	11.52
68	M	2-nitropropane	0.977	1.000	-2.4	109	0.00	12.31
69	M	2-chloroethyl vinyl ether	0.249	0.262	-5.2	109	0.00	12.31
70	M	methyl methacrylate	0.098	0.095	3.1	100	0.00	11.78
71	M	tert-amyl ethyl ether		----------NA----------				
72	M	1,2-dichloropropane	0.356	0.355	0.3	102	0.00	11.78
73	M	methylcyclohexane	0.552	0.655	-18.7	129	0.00	11.78
74	M	dibromomethane	0.210	0.219	-4.3	104	0.00	11.92
75	M	bromodichloromethane	0.433	0.441	-1.8	101	0.00	12.06
76	M	cis-1,3-dichloropropene	0.561	0.584	-4.1	103	0.00	12.54
77	S	toluene-d8 (s)	1.212	1.146	5.4	102	0.00	12.88
78	M	4-methyl-2-pentanone	0.156	0.161	-3.2	106	0.00	12.65
79	M	toluene	0.826	0.770	6.8	96	0.00	12.95
80	M	3-methyl-1-butanol	0.012	0.013	-8.3	106	0.00	12.64
81	M	trans-1,3-dichloropropene	0.530	0.514	3.0	98	0.00	13.13
82	M	ethyl methacrylate	0.496	0.464	6.5	95	0.00	13.14
83	M	1,1,2-trichloroethane	0.261	0.247	5.4	97	0.00	13.36
84	M	2-hexanone	0.142	0.135	4.9	94	0.00	13.57
85	I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	14.51
86	M	tetrachloroethene	0.409	0.388	5.1	96	0.00	13.59
87	M	1,3-dichloropropane	0.600	0.594	1.0	96	0.00	13.56
88	M	butyl acetate	0.264	0.283	-7.2	104	0.00	13.65
89	m	3,3-dimethyl-1-butanol	0.047	0.049	-4.3	103	0.00	13.73
90	M	dibromochloromethane	0.381	0.378	0.8	98	0.00	13.85
91	M	1,2-dibromoethane	0.353	0.363	-2.8	99	0.00	14.02
92	M	chlorobenzene	1.016	0.991	2.5	97	0.00	14.54
93	M	1,1,1,2-tetrachloroethane	0.376	0.373	0.8	97	0.00	14.61
94	M	ethylbenzene	1.766	1.716	2.8	99	0.00	14.62
95	M	m,p-xylene	0.704	0.657	6.7	98	0.00	14.73
96	M	o-xylene	0.698	0.666	4.6	99	0.00	15.20
97	M	styrene	1.176	1.128	4.1	96	0.00	15.20
98	M	bromoform	0.295	0.292	1.0	100	0.00	15.47

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VD8383-CC8379
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D205457.D
Project: BMSMC, Building 5 Area, PR

99	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	17.10
100	M	isopropylbenzene	2.987	2.932	1.8	100	0.00	15.58
101	S	4-bromofluorobenzene (s)	0.908	0.881	3.0	101	0.00	15.79
102	M	bromobenzene	0.812	0.790	2.7	99	0.00	16.01
103	M	cyclohexanone	0.023	0.020	13.0	78	0.00	15.74
104	M	1,1,2,2-tetrachloroethane	0.921	0.865	6.1	99	0.00	15.88
105	M	trans-1,4-dichloro-2-bute	0.251	0.265	-5.6	103	0.00	15.93
106	M	1,2,3-trichloropropane	0.262	0.246	6.1	98	0.00	15.97
107	M	n-propylbenzene	3.560	3.476	2.4	103	0.00	16.04
108	M	p-ethyltoluene		----------NA----------				
109	M	2-chlorotoluene	0.742	0.717	3.4	98	0.00	16.20
110	M	4-chlorotoluene	2.324	2.226	4.2	100	0.00	16.31
111	M	1,3,5-trimethylbenzene	2.777	2.572	7.4	100	0.00	16.21
112	M	tert-butylbenzene	2.331	2.239	3.9	99	0.00	16.60
113	M	pentachloroethane	0.520	0.509	2.1	98	0.00	16.67
114	M	1,2,4-trimethylbenzene	2.823	2.619	7.2	98	0.00	16.65
115	M	sec-butylbenzene	3.433	3.391	1.2	103	0.00	16.84
116	M	1,3-dichlorobenzene	1.601	1.512	5.6	97	0.00	17.03
117	M	p-isopropyltoluene	2.843	2.772	2.5	100	0.00	16.97
118	M	1,4-dichlorobenzene	1.671	1.564	6.4	97	0.00	17.12
119		Benzyl Chloride	1.528	2.003	-31.1#	132	0.00	17.24
120	M	p-diethylbenzene		----------NA----------				
121	M	1,2-dichlorobenzene	1.627	1.512	7.1	95	0.00	17.56
122	M	n-butylbenzene	1.562	1.479	5.3	98	0.00	17.43
123	M	1,2,4,5-tetramethylbenzen		----------NA----------				
124	M	1,2-dibromo-3-chloropropa	0.179	0.170	5.0	94	0.00	18.40
125	M	1,3,5-trichlorobenzene	1.241	1.268	-2.2	102	0.00	18.64
126	M	1,2,4-trichlorobenzene	1.006	1.071	-6.5	101	0.00	19.36
127	M	hexachlorobutadiene	0.586	0.616	-5.1	107	0.00	19.52
128	M	naphthalene	2.212	2.359	-6.6	95	0.00	19.69
129	M	1,2,3-trichlorobenzene	0.810	0.905	-11.7	99	0.00	19.97
130	M	hexachloroethane	0.538	0.513	4.6	97	0.00	17.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
d205390.D MD8379.M Thu Feb 14 11:18:09 2013

6.9.4

6

Initial Calibration Summary

Job Number: JB28370 **Sample:** VI7266-ICC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179923.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSI

```
Method       : C:\msdchem\1\METHODS\MI7266.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 04 12:46:35 2013
Response via : Initial Calibration

Calibration Files
0.5 =I179917.D   1   =I179918.D   2   =I179919.D   5   =I179920.D
10  =I179921.D   20  =I179922.D   50  =I179923.D   100 =I179924.D
200 =I179925.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	0.157	0.125	0.139	0.133	0.118	0.122	0.120	0.115		0.129	10.77
3) iso-butyl alcohol			0.042	0.050	0.041	0.039	0.040	0.037		0.041	10.73
4) 1,4-dioxane		0.007	0.007	0.008	0.008	0.008	0.008	0.008		0.008#	5.14
5) I pentafluorobenzene ----------ISTD----------											
6) chlorodifluoromethane	0.580	0.551	0.741	0.715	0.697	0.702	0.735	0.734		0.682	10.86
7) dichlorodifluoromethane	0.719	0.648	0.806	0.791	0.753	0.809	0.811	0.804		0.767	7.61
8) chloromethane	0.828	0.723	0.828	0.838	0.755	0.800	0.787	0.806		0.796	4.99
9) vinyl chloride	0.711	0.649	0.773	0.781	0.711	0.750	0.753	0.754		0.735	5.85
10) bromomethane	0.441	0.355	0.373	0.369	0.309	0.328	0.323	0.327		0.353	11.98
11) chloroethane	0.294	0.267	0.306	0.311	0.282	0.297	0.291	0.292		0.292	4.67
12) trichlorofluoromethane	0.630	0.634	0.744	0.775	0.720	0.774	0.783	0.787		0.731	8.90
13) ethyl ether	0.339	0.291	0.313	0.276	0.263	0.284	0.263	0.278		0.288	9.06
14) acrolein	0.089	0.080	0.093	0.079	0.079	0.088	0.078	0.078		0.083	6.96
15) freon 113		0.291	0.393	0.467	0.369	0.366	0.379	0.379		0.378	13.64
16) 1,1-dichloroethene	0.938	0.821	0.774	0.942	1.016	0.914	0.947	0.939	0.955	0.916	8.03
17) acetone			0.047	0.038	0.036	0.038	0.034	0.036		0.038	12.56
18) iodomethane	0.792	0.727	0.893	0.908	0.843	0.887	0.861	0.893		0.850	7.32
19) carbon disulfide	1.767	1.761	1.611	2.000	2.110	1.922	2.002	1.955	1.987	1.902	8.24
20) methyl acetate		0.063	0.077	0.068	0.066	0.071	0.066	0.066		0.068	6.68
21) allyl chloride	0.311	0.279	0.340	0.349	0.322	0.335	0.324	0.333		0.324	6.67
22) acetonitrile		0.148	0.176	0.172	0.162	0.172	0.164	0.167		0.166	5.56
23) methylene chloride											

Initial Calibration Summary

Job Number: JB28370 **Sample:** VI7266-ICC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179923.D
Project: BMSMC, Building 5 Area, PR

```
                  0.671 0.561 0.592 0.569 0.533 0.555 0.531 0.547   0.570    7.97
24)  methyl tert butyl ether
            1.535 1.473 1.529 1.648 1.497 1.465 1.611 1.489 1.544   1.532    4.04
25)  acrylonitrile
                  0.159 0.156 0.170 0.145 0.143 0.159 0.142 0.148   0.153    6.38
26)  trans-1,2-dichloroethene
                  0.500 0.542 0.561 0.569 0.515 0.531 0.521 0.531   0.534    4.32
27)  hexane
                                                                    0.000#  -1.00
28)  di-isopropyl ether
            2.184 2.083 1.948 2.220 2.149 2.066 2.140 2.076 2.028   2.099    3.98
29)  vinyl acetate
                                                                    0.000#  -1.00
30)  1,1-dichloroethane
            1.061 1.021 0.958 1.137 1.155 1.070 1.117 1.071 1.077   1.074    5.59
31)  chloroprene
                  0.907 0.823 1.020 1.046 0.956 0.943 0.966 0.948   0.951    7.16
32)  ethyl tert-butyl ether
            1.951 1.845 1.728 2.044 1.928 1.879 1.967 1.913 1.898   1.906    4.60
33)  2-butanone
                        0.047 0.042 0.043 0.049 0.045 0.048   0.046    6.38
34)  ethyl acetate
                  0.083 0.081 0.063 0.061 0.067 0.061 0.061   0.068   14.07
35)  2,2-dichloropropane
                  1.012 0.846 0.992 1.005 0.925 0.953 0.932 0.938   0.951    5.72
36)  cis-1,2-dichloroethene
                  0.551 0.515 0.629 0.622 0.560 0.590 0.561 0.569   0.575    6.56
37)  methacrylonitrile
                  0.168 0.190 0.168 0.162 0.179 0.162 0.175   0.172    5.96
38)  propionitrile
                  0.053 0.063 0.054 0.054 0.061 0.055 0.058   0.057    7.20
39)  bromochloromethane
            0.195 0.219 0.202 0.246 0.234 0.226 0.245 0.233 0.244   0.227    8.21
40)  tetrahydrofuran
                  0.189 0.196 0.165 0.157 0.177 0.157 0.167   0.173    8.89
41)  chloroform
            1.071 1.016 0.898 1.018 1.025 0.958 1.006 0.963 0.994   0.994    4.96
42)  tert-Butyl Formate
                  0.488 0.424 0.496 0.451 0.459 0.491 0.474 0.477   0.470    5.12
43)  dibromofluoromethane (s)
                        0.500 0.474 0.475 0.504 0.490 0.504   0.491    2.81
44)  1,1,1-trichloroethane
            0.825 0.805 0.723 0.867 0.919 0.859 0.891 0.879 0.908   0.853    7.15
45)  cyclohexane
            0.981 0.735 0.726 0.816 0.918 0.807 0.839 0.834 0.854   0.834    9.62

46) I   1,4-difluorobenzene   ----------------ISTD---------------------
47)   1,2-dichloroethane-d4 (s)
                        0.412 0.391 0.380 0.407 0.392 0.397   0.396    2.97
48)  carbon tetrachloride
            0.490 0.409 0.398 0.474 0.524 0.462 0.489 0.497 0.510   0.472    9.15
49)  1,1-dichloropropene
                  0.482 0.462 0.528 0.607 0.506 0.527 0.532 0.540   0.523    8.29
50)  isopropyl acetate
                  0.097 0.133 0.114 0.112 0.124 0.119 0.120   0.117    9.67
51)  benzene
            1.449 1.396 1.311 1.577 1.562 1.423 1.484 1.447 1.438   1.454    5.59
52)  2,2,4-trimethylpentane
                                                                    0.000#  -1.00
53)  tert-amyl methyl ether
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VI7266-ICC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179923.D
Project: BMSMC, Building 5 Area, PR

```
            1.107 1.041 0.980 1.151 1.066 1.014 1.083 1.054 1.033   1.059    4.80
54)  1,2-dichloroethane
            0.472 0.464 0.439 0.510 0.488 0.458 0.495 0.464 0.464   0.473    4.53
55)  heptane
                                                                    0.000#  -1.00
56)  n-butyl alcohol
                  0.008 0.006 0.008 0.007 0.007 0.008 0.008 0.008   0.008#  11.19
57)  trichloroethene
            0.422 0.325 0.319 0.375 0.404 0.348 0.365 0.364 0.375   0.366    9.15
58)  ethyl acrylate
                                                                    0.000#  -1.00
59)  methyl methacrylate
                  0.176 0.155 0.199 0.177 0.178 0.201 0.184 0.192   0.183    8.19
60)  1,2-dichloropropane
            0.378 0.357 0.346 0.407 0.409 0.375 0.399 0.385 0.390   0.383    5.56
61)  methylcyclohexane
            0.676 0.546 0.531 0.678 0.833 0.621 0.626 0.647 0.639   0.644   13.60
62)  dibromomethane
            0.185 0.190 0.172 0.202 0.190 0.178 0.196 0.186 0.193   0.188    4.81
63)  bromodichloromethane
            0.473 0.458 0.416 0.476 0.468 0.440 0.476 0.465 0.484   0.462    4.60
64)  2-nitropropane
                        0.113 0.093 0.090 0.101 0.093 0.099   0.098    8.39
65)  2-chloroethyl vinyl ether
                  0.079 0.076 0.099 0.080 0.083 0.090 0.082 0.085   0.084    8.55
66)  epichlorohydrin
                      0.026 0.031 0.024 0.024 0.026 0.024 0.025   0.026    9.33
67)  cis-1,3-dichloropropene
            0.636 0.576 0.517 0.600 0.588 0.551 0.600 0.574 0.595   0.582    5.80
68)  4-methyl-2-pentanone
                        0.107 0.092 0.093 0.106 0.098 0.105   0.100    6.64
69)  3-methyl-1-butanol
                        0.007 0.006 0.006 0.007 0.006 0.007   0.006#   9.35
             ----- Linear regression -----  Coefficient =  0.9992
               Response Ratio = -0.00356 + 0.00665 *A

70)  toluene
            1.703 1.376 1.296 1.511 1.575 1.385 1.451 1.420 1.431   1.461    8.28
71)  trans-1,3-dichloropropene
            0.567 0.474 0.447 0.519 0.489 0.463 0.510 0.483 0.491   0.494    7.16
72)  ethyl methacrylate
                  0.293 0.304 0.342 0.316 0.313 0.358 0.335 0.348   0.326    7.01
73)  1,1,2-trichloroethane
            0.242 0.207 0.197 0.222 0.212 0.200 0.223 0.209 0.218   0.215    6.43
74)  2-hexanone
                        0.087 0.076 0.074 0.086 0.081 0.084   0.081    6.48

75) I   chlorobenzene-d5      ----------------ISTD--------------------
76)  toluene-d8 (s)
                        1.462 1.480 1.429 1.512 1.526 1.533   1.490    2.72
77)  tetrachloroethene
                  0.379 0.405 0.424 0.531 0.412 0.425 0.429 0.436   0.430   10.34
78)  1,3-dichloropropane
            0.504 0.525 0.478 0.541 0.525 0.491 0.538 0.510 0.522   0.515    4.08
79)  butyl acetate
                      0.178 0.216 0.186 0.178 0.194 0.194 0.198   0.192    6.81
80)  3,3-Dimethyl-1-Butanol
                      0.026 0.032 0.025 0.026 0.029 0.029 0.030   0.028    9.68
81)  dibromochloromethane
            0.324 0.325 0.297 0.359 0.352 0.334 0.374 0.370 0.392   0.347    8.57
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VI7266-ICC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179923.D
Project: BMSMC, Building 5 Area, PR

```
 82)  1,2-dibromoethane
            0.281 0.290 0.271 0.308 0.294 0.279 0.308 0.294 0.311   0.293    4.86
 83)  chlorobenzene
            1.195 1.012 0.955 1.093 1.149 1.017 1.070 1.061 1.087   1.071    6.78
 84)  1,1,1,2-tetrachloroethane
            0.355 0.355 0.318 0.371 0.385 0.353 0.378 0.373 0.389   0.364    6.01
 85)  ethylbenzene
            2.633 1.719 1.765 1.938 2.170 1.826 1.900 1.878 1.883   1.968   14.22
 86)  m,p-xylene
            0.938 0.663 0.658 0.733 0.828 0.691 0.719 0.707 0.709   0.738   12.14
 87)  o-xylene
            0.793 0.652 0.607 0.715 0.768 0.672 0.703 0.686 0.693   0.699    8.07
 88)  styrene
            1.296 1.062 1.021 1.177 1.236 1.095 1.171 1.150 1.153   1.151    7.35
 89)  bromoform
                  0.175 0.177 0.213 0.199 0.194 0.224 0.222 0.241   0.206   11.38

 90) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 91)  4-bromofluorobenzene (s)
                              1.020 1.009 0.969 1.018 1.003 0.994   1.002    1.90
 92)  isopropylbenzene
                  3.139 3.137 3.397 3.907 3.207 3.335 3.329 3.298   3.344    7.38
 93)  cyclohexanone
                        0.028 0.022 0.018 0.018 0.016 0.017 0.020   0.020   20.62
              ----- Linear regression -----  Coefficient =  0.9944
                Response Ratio = -0.01080 + 0.01973 *A

 94)  1,1,2,2-tetrachloroethane
            0.739 0.711 0.632 0.721 0.692 0.645 0.721 0.678 0.698   0.693    5.17
 95)  trans-1,4-dichloro-2-butene
                  0.224 0.222 0.236 0.202 0.193 0.211 0.202 0.214   0.213    6.62
 96)  1,2,3-trichloropropane
            0.143 0.137 0.135 0.158 0.151 0.141 0.159 0.147 0.149   0.147    5.64
 97)  n-propylbenzene
                  3.915 3.957 4.124 4.996 3.853 3.957 3.930 3.787   4.065    9.56
 98)  bromobenzene
            0.967 0.798 0.757 0.807 0.847 0.742 0.802 0.786 0.786   0.810    8.13
 99)  2-chlorotoluene
                  0.819 0.757 0.807 0.926 0.755 0.787 0.773 0.757   0.798    7.19
100)  4-chlorotoluene
                  2.487 2.534 2.600 2.979 2.364 2.499 2.475 2.464   2.550    7.27
101)  1,3,5-trimethylbenzene
                  2.745 2.757 2.890 3.416 2.745 2.838 2.817 2.748   2.869    7.92
102)  tert-butylbenzene
            3.043 2.246 2.123 2.346 2.664 2.259 2.333 2.373 2.354   2.416   11.44
103)  pentachloroethane
                  0.409 0.389 0.441 0.454 0.427 0.477 0.485 0.508   0.449    8.93
104)  1,2,4-trimethylbenzene
                  2.843 2.760 2.921 3.387 2.731 2.853 2.833 2.815   2.893    7.18
105)  sec-butylbenzene
                  3.373 3.542 3.699 4.492 3.552 3.632 3.665 3.610   3.696    9.12
106)  p-isopropyltoluene
                  2.849 3.078 3.032 3.855 2.875 2.989 3.009 2.980   3.083   10.41
107)  benzyl chloride
                        1.081 1.414 1.197 1.172 1.320 1.323 1.354   1.266    9.33
108)  1,3-dichlorobenzene
                  1.576 1.541 1.617 1.831 1.477 1.574 1.565 1.591   1.596    6.46
109)  1,4-dichlorobenzene
                  1.646 1.584 1.609 1.814 1.487 1.591 1.585 1.607   1.615    5.71
110)  1,2-dichlorobenzene
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VI7266-ICC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179923.D
Project: BMSMC, Building 5 Area, PR

```
            1.908 1.498 1.383 1.509 1.603 1.381 1.474 1.465 1.462   1.520   10.51
111)  n-butylbenzene
                  1.612 1.842 1.722 2.443 1.630 1.685 1.703 1.666   1.788   15.31
              ----- Linear regression -----  Coefficient =  0.9994
                Response Ratio = 0.03380 + 1.66295 *A

112)  hexachloroethane
                        0.463 0.593 0.632 0.565 0.602 0.619 0.615   0.584    9.85
113)  1,2-dibromo-3-chloropropane
                        0.112 0.132 0.117 0.117 0.132 0.124 0.120   0.122    6.40
114)  1,3,5-Trichlorobenzene
                  1.284 1.384 1.290 1.675 1.219 1.304 1.286 1.193   1.330   11.35
115)  1,2,4-trichlorobenzene
                  1.088 1.063 1.077 1.275 1.030 1.122 1.079 0.986   1.090    7.79
116)  hexachlorobutadiene
                  0.669 0.767 0.697 0.968 0.670 0.691 0.690         0.736   14.60
117)  naphthalene
                        1.617 1.812 1.779 1.728 1.923 1.810 1.652   1.760    5.92
118)  1,2,3-trichlorobenzene
                  0.919 0.862 0.930 1.010 0.881 0.966 0.888 0.783   0.905    7.60
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MI7266.M          Fri Jan 04 12:52:32 2013   RPT1
```

Initial Calibration Verification

Job Number: JB28370 **Sample:** VI7266-ICV7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179927.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VI7266\I179927.D Vial: 18
Acq On : 28 Dec 2012 3:26 pm Operator: SCOTTM
Sample : ICV7266-50 Inst : MSI
Misc : MS40394,VI7266,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MI7266.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 04 12:46:35 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	105	0.00	7.23
2	tertiary butyl alcohol	0.129	0.116	10.1	100	0.00	7.35
3	iso-butyl alcohol	0.041	0.037	9.8	99	0.00	9.99
4	1,4-dioxane	0.008	0.008#	0.0	101	0.00	11.09
5 I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	9.45
6	chlorodifluoromethane	0.682	0.679	0.4	103	0.00	3.90
7	dichlorodifluoromethane	0.767	0.784	-2.2	104	0.00	3.87
8	chloromethane	0.796	0.762	4.3	102	0.00	4.21
9	vinyl chloride	0.735	0.736	-0.1	105	0.00	4.46
10	bromomethane	0.353	0.313	11.3	102	0.00	5.09
11	chloroethane	0.292	0.284	2.7	102	0.00	5.27
12	trichlorofluoromethane	0.731	0.762	-4.2	105	0.00	5.72
13	ethyl ether	0.288	0.261	9.4	98	0.00	6.12
14	acrolein	0.083	0.076	8.4	91	0.00	6.38
15	freon 113	0.378	0.371	1.9	108	0.00	6.51
16	1,1-dichloroethene	0.916	0.901	1.6	102	0.00	6.54
17	acetone	0.038	0.035	7.9	100	-0.01	6.59
18	iodomethane	0.850	0.823	3.2	99	0.00	6.82
19	carbon disulfide	1.902	1.868	1.8	100	0.00	6.94
20	methyl acetate	0.068	0.061	10.3	93	0.00	7.06
21	allyl chloride	0.324	0.309	4.6	98	0.00	7.07
22	acetonitrile	0.166	0.160	3.6	100	0.00	7.07
23	methylene chloride	0.570	0.516	9.5	99	0.00	7.26
24	methyl tert butyl ether	1.532	1.434	-6.6	95	0.00	7.59
25	acrylonitrile	0.153	0.145	5.2	97	0.00	7.58
26	trans-1,2-dichloroethene	0.534	0.499	6.6	100	0.00	7.63
27	hexane	0.000	0.828	0.0	0#	0.00	7.93
28	di-isopropyl ether	2.099	2.051	2.3	102	0.00	8.18
29	vinyl acetate	0.000	0.329	0.0	0#	0.00	8.20
30	1,1-dichloroethane	1.074	1.027	4.4	98	0.00	8.20
31	chloroprene	0.951	0.898	5.6	102	0.00	8.30
32	ethyl tert-butyl ether	1.906	1.836	3.7	100	0.00	8.64
33	2-butanone	0.046	0.045	2.2	99	0.00	8.90
34	ethyl acetate	0.068	0.063	7.4	100	0.00	8.92
35	2,2-dichloropropane	0.951	0.884	7.0	99	0.00	8.93
36	cis-1,2-dichloroethene	0.575	0.538	6.4	97	0.00	8.93
37	methacrylonitrile	0.172	0.160	7.0	96	0.00	9.18
38	propionitrile	0.057	0.055	3.5	96	0.00	9.00
39	bromochloromethane	0.227	0.224	1.3	98	0.00	9.25
40	tetrahydrofuran	0.173	0.160	7.5	96	0.00	9.28
41	chloroform	0.994	0.918	7.6	98	0.00	9.30

Initial Calibration Verification

Job Number: JB28370 **Sample:** VI7266-ICV7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179927.D
Project: BMSMC, Building 5 Area, PR

42		tert-Butyl Formate	0.470	0.476	-1.3	104	0.00	9.33
43	S	dibromofluoromethane (s)	0.491	0.465	5.3	99	0.00	9.50
44		1,1,1-trichloroethane	0.853	0.834	2.2	100	0.00	9.55
45		cyclohexane	0.834	0.798	4.3	102	0.00	9.62
46	I	1,4-difluorobenzene	1.000	1.000	0.0	107	0.00	10.37
47	s	1,2-dichloroethane-d4 (s	0.396	0.373	5.8	98	0.00	9.92
48		carbon tetrachloride	0.472	0.469	0.6	103	0.00	9.75
49		1,1-dichloropropene	0.523	0.500	4.4	101	0.00	9.73
50		isopropyl acetate	0.117	0.117	0.0	101	0.00	9.92
51		benzene	1.454	1.381	5.0	100	0.00	9.99
52		2,2,4-trimethylpentane	0.000	1.577	0.0	0#	0.00	9.99
53		tert-amyl methyl ether	1.059	1.013	4.3	100	0.00	10.03
54		1,2-dichloroethane	0.473	0.447	5.5	97	0.00	10.01
55		heptane	0.000	0.317	0.0	0#	0.00	10.16
56		n-butyl alcohol	0.008	0.008#	0.0	101	0.00	10.49
57		trichloroethene	0.366	0.340	7.1	100	0.00	10.71
58		ethyl acrylate	0.000	0.588	0.0	0#	0.00	10.93
59		methyl methacrylate	0.183	0.177	3.3	95	0.00	10.98
60		1,2-dichloropropane	0.383	0.363	5.2	98	0.00	10.98
61		methylcyclohexane	0.644	0.614	4.7	105	0.00	10.93
62		dibromomethane	0.188	0.177	5.9	97	0.00	11.13
63		bromodichloromethane	0.462	0.434	6.1	98	0.00	11.27
64		2-nitropropane	0.098	0.088	10.2	94	0.00	11.48
65		2-chloroethyl vinyl ether	0.084	0.078	7.1	92	0.00	11.51
66		epichlorohydrin	0.026	0.025	3.8	102	0.00	11.63
67		cis-1,3-dichloropropene	0.582	0.542	6.9	97	0.00	11.72
68		4-methyl-2-pentanone	0.100	0.094	6.0	95	0.00	11.81
		----------	True	Calc.	% Drift	----------		
69		3-methyl-1-butanol	1000.000	958.439	4.2	97	0.00	11.84
		----------	AvgRF	CCRF	% Dev	----------		
70		toluene	1.461	1.341	8.2	99	0.00	12.09
71		trans-1,3-dichloropropene	0.494	0.462	6.5	97	0.00	12.29
72		ethyl methacrylate	0.326	0.320	1.8	96	0.00	12.27
73		1,1,2-trichloroethane	0.215	0.200	7.0	96	0.00	12.50
74		2-hexanone	0.081	0.076	6.2	94	0.00	12.67
75	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	13.52
76	S	toluene-d8 (s)	1.490	1.421	4.6	100	0.00	12.01
77		tetrachloroethene	0.430	0.396	7.9	99	0.00	12.67
78		1,3-dichloropropane	0.515	0.484	6.0	96	0.00	12.68
79		butyl acetate	0.192	0.182	5.2	100	0.00	12.74
80		3,3-Dimethyl-1-Butanol	0.028	0.027	3.6	101	0.00	12.84
81		dibromochloromethane	0.347	0.340	2.0	97	0.00	12.94
82		1,2-dibromoethane	0.293	0.280	4.4	97	0.00	13.10
83		chlorobenzene	1.071	0.983	8.2	98	0.00	13.55
84		1,1,1,2-tetrachloroethane	0.364	0.346	4.9	98	0.00	13.61
85		ethylbenzene	1.968	1.759	10.6	99	0.00	13.61
86		m,p-xylene	0.738	0.665	9.9	99	0.00	13.71
87		o-xylene	0.699	0.642	8.2	97	0.00	14.13
88		styrene	1.151	1.073	6.8	98	0.00	14.14
89		bromoform	0.206	0.204	1.0	97	0.00	14.41
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	15.84
91	S	4-bromofluorobenzene (s)	1.002	0.939	6.3	98	0.00	14.68
92		isopropylbenzene	3.344	3.092	7.5	99	0.00	14.47
		----------	True	Calc.	% Drift	----------		

Initial Calibration Verification

Job Number: JB28370 **Sample:** VI7266-ICV7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I179927.D
Project: BMSMC, Building 5 Area, PR

93	cyclohexanone	500.000	400.560	19.9	96	0.00	14.64
	----------	AvgRF	CCRF	% Dev	----------		
94	1,1,2,2-tetrachloroethane	0.693	0.643	7.2	95	0.00	14.78
95	trans-1,4-dichloro-2-bute	0.213	0.189	11.3	95	0.00	14.82
96	1,2,3-trichloropropane	0.147	0.140	4.8	94	0.00	14.85
97	n-propylbenzene	4.065	3.674	9.6	99	0.00	14.88
98	bromobenzene	0.810	0.732	9.6	97	0.00	14.87
99	2-chlorotoluene	0.798	0.723	9.4	98	0.00	15.03
100	4-chlorotoluene	2.550	2.284	10.4	97	0.00	15.13
101	1,3,5-trimethylbenzene	2.869	2.602	9.3	98	0.00	15.03
102	tert-butylbenzene	2.416	2.161	10.6	99	0.00	15.38
103	pentachloroethane	0.449	0.446	0.7	100	0.00	15.46
104	1,2,4-trimethylbenzene	2.893	2.600	10.1	97	0.00	15.42
105	sec-butylbenzene	3.696	3.376	8.7	99	0.00	15.59
106	p-isopropyltoluene	3.083	2.762	10.4	98	0.00	15.71
107	benzyl chloride	1.266	1.243	1.8	100	0.00	15.98
108	1,3-dichlorobenzene	1.596	1.430	10.4	97	0.00	15.78
109	1,4-dichlorobenzene	1.615	1.444	10.6	97	0.00	15.87
110	1,2-dichlorobenzene	1.520	1.347	11.4	97	0.00	16.27
	----------	True	Calc.	% Drift	----------		
111	n-butylbenzene	50.000	45.801	8.4	98	0.00	16.13
	----------	AvgRF	CCRF	% Dev	----------		
112	hexachloroethane	0.584	0.565	3.3	100	0.00	16.53
113	1,2-dibromo-3-chloropropa	0.122	0.121	0.8	97	0.00	17.06
114	1,3,5-Trichlorobenzene	1.330	1.192	10.4	97	0.00	17.25
115	1,2,4-trichlorobenzene	1.090	1.028	5.7	98	0.00	17.90
116	hexachlorobutadiene	0.736	0.650	11.7	100	0.00	18.02
117	naphthalene	1.760	1.795	-2.0	99	0.00	18.18
118	1,2,3-trichlorobenzene	0.905	0.883	2.4	97	0.00	18.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I179923.D MI7266.M Fri Jan 04 12:49:06 2013 RPT1

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VI7333-CC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181528.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\VI7333\I181528.D          Vial: 1
Acq On    : 15 Feb 2013  12:40 pm                   Operator: SCOTTM
Sample    : CC7266-50                               Inst    : MSI
Misc      : MS43192,VI7333,,,,,1                    Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MI7266.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue Jan 29 10:37:03 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	142	0.00	7.22
2	tertiary butyl alcohol	0.129	0.120	7.0	140	-0.02	7.33
3	iso-butyl alcohol	0.041	0.036	12.2	133	0.00	10.02
4	1,4-dioxane	0.008	0.007#	12.5	134	-0.01	11.11
5 I	pentafluorobenzene	1.000	1.000	0.0	127	0.00	9.48
6	chlorodifluoromethane	0.682	0.731	-7.2	133	0.00	3.80
7	dichlorodifluoromethane	0.767	0.681	11.2	107	0.00	3.77
8	chloromethane	0.796	0.879	-10.4	140	0.00	4.13
9	vinyl chloride	0.735	0.738	-0.4	125	0.00	4.38
10	bromomethane	0.353	0.334	5.4	130	0.00	5.03
11	chloroethane	0.292	0.307	-5.1	132	0.00	5.21
12	trichlorofluoromethane	0.731	0.740	-1.2	122	0.00	5.67
13	ethyl ether	0.288	0.277	3.8	124	0.00	6.09
14	acrolein	0.083	0.093	-12.0	133	-0.02	6.33
15	freon 113	0.378	0.359	5.0	125	0.00	6.48
16	1,1-dichloroethene	0.916	0.984	-7.4	132	0.00	6.51
17	acetone	0.038	0.039	-2.6	131	-0.02	6.56
18	iodomethane	0.850	0.786	7.5	113	-0.01	6.78
19	carbon disulfide	1.902	1.833	3.6	117	-0.01	6.90
20	methyl acetate	0.068	0.073	-7.4	131	0.00	7.04
21	allyl chloride	0.324	0.305	5.9	116	-0.01	7.04
22	acetonitrile	0.166	0.196	-18.1	146	-0.01	7.04
23	methylene chloride	0.570	0.532	6.7	122	-0.01	7.24
24	methyl tert butyl ether	1.532	1.647	-7.5	130	0.00	7.58
25	acrylonitrile	0.153	0.175	-14.4	140	-0.02	7.57
26	trans-1,2-dichloroethene	0.534	0.490	8.2	118	-0.01	7.62
27	hexane	0.000	0.859	0.0	0#	0.00	7.93
28	di-isopropyl ether	2.099	2.368	-12.8	141	0.00	8.19
29	vinyl acetate	0.000	0.360	0.0	0#	-0.01	8.20
30	1,1-dichloroethane	1.074	1.141	-6.2	130	-0.01	8.20
31	chloroprene	0.951	1.028	-8.1	139	-0.01	8.30
32	ethyl tert-butyl ether	1.906	2.178	-14.3	141	0.00	8.66
33	2-butanone	0.046	0.051	-10.9	132	-0.02	8.91
34	ethyl acetate	0.068	0.081	-19.1	153	-0.02	8.93
35	2,2-dichloropropane	0.951	0.955	-0.4	128	-0.01	8.94
36	cis-1,2-dichloroethene	0.575	0.534	7.1	115	-0.01	8.94
37	methacrylonitrile	0.172	0.183	-6.4	131	-0.01	9.19
38	propionitrile	0.057	0.067	-17.5	140	-0.02	9.01
39	bromochloromethane	0.227	0.230	-1.3	119	-0.01	9.26
40	tetrahydrofuran	0.173	0.211	-22.0#	152	-0.01	9.29
41	chloroform	0.994	1.003	-0.9	127	-0.01	9.31

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VI7333-CC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181528.D
Project: BMSMC, Building 5 Area, PR

42		tert-Butyl Formate	0.470	0.561	-19.4	145	-0.02	9.35
43	S	dibromofluoromethane (s)	0.491	0.506	-3.1	128	-0.02	9.51
44		1,1,1-trichloroethane	0.853	0.867	-1.6	124	0.00	9.57
45		cyclohexane	0.834	0.751	10.0	114	-0.01	9.64
46	I	1,4-difluorobenzene	1.000	1.000	0.0	134	-0.01	10.39
47	s	1,2-dichloroethane-d4 (s	0.396	0.430	-8.6	141	-0.01	9.94
48		carbon tetrachloride	0.472	0.474	-0.4	130	-0.01	9.77
49		1,1-dichloropropene	0.523	0.499	4.6	127	-0.01	9.75
50		isopropyl acetate	0.117	0.136	-16.2	146	-0.01	9.95
51		benzene	1.454	1.361	6.4	123	-0.01	10.01
52		2,2,4-trimethylpentane	0.000	1.610	0.0	0#	-0.01	10.02
53		tert-amyl methyl ether	1.059	1.107	-4.5	137	-0.01	10.05
54		1,2-dichloroethane	0.473	0.537	-13.5	145	-0.02	10.03
55		heptane	0.000	0.312	0.0	0#	-0.01	10.19
56		n-butyl alcohol	0.008	0.009#	-12.5	144	-0.01	10.52
57		trichloroethene	0.366	0.333	9.0	122	-0.01	10.74
58		ethyl acrylate	0.000	0.630	0.0	0#	0.04	10.96
59		methyl methacrylate	0.183	0.187	-2.2	124	-0.01	11.01
60		1,2-dichloropropane	0.383	0.384	-0.3	129	-0.02	11.00
61		methylcyclohexane	0.644	0.579	10.1	124	0.00	10.96
62		dibromomethane	0.188	0.191	-1.6	131	-0.01	11.16
63		bromodichloromethane	0.462	0.460	0.4	129	-0.02	11.29
64		2-nitropropane	0.098	0.146	-49.0#	193	-0.01	11.51
65		2-chloroethyl vinyl ether	0.084	0.139	-65.5#	206#	-0.01	11.54
66		epichlorohydrin	0.026	0.028	-7.7	144	-0.01	11.66
67		cis-1,3-dichloropropene	0.582	0.560	3.8	125	-0.01	11.75
68		4-methyl-2-pentanone	0.100	0.114	-14.0	144	-0.01	11.85
		----------	True	Calc.	% Drift	----------		
69		3-methyl-1-butanol	1000.000	1067.807	-6.8	136	-0.01	11.87
		----------	AvgRF	CCRF	% Dev	----------		
70		toluene	1.461	1.297	11.2	120	-0.01	12.12
71		trans-1,3-dichloropropene	0.494	0.498	-0.8	131	-0.01	12.32
72		ethyl methacrylate	0.326	0.345	-5.8	129	0.00	12.32
73		1,1,2-trichloroethane	0.215	0.213	0.9	128	-0.01	12.53
74		2-hexanone	0.081	0.091	-12.3	141	-0.01	12.70
75	I	chlorobenzene-d5	1.000	1.000	0.0	124	-0.01	13.56
76	S	toluene-d8 (s)	1.490	1.561	-4.8	128	-0.01	12.04
77		tetrachloroethene	0.430	0.370	14.0	108	-0.01	12.70
78		1,3-dichloropropane	0.515	0.546	-6.0	126	-0.01	12.71
79		butyl acetate	0.192	0.232	-20.8#	149	0.00	12.79
80		3,3-Dimethyl-1-Butanol	0.028	0.034	-21.4#	145	-0.01	12.88
81		dibromochloromethane	0.347	0.380	-9.5	126	-0.01	12.98
82		1,2-dibromoethane	0.293	0.314	-7.2	126	-0.01	13.13
83		chlorobenzene	1.071	1.009	5.8	117	-0.01	13.59
84		1,1,1,2-tetrachloroethane	0.364	0.368	-1.1	121	-0.01	13.65
85		ethylbenzene	1.968	1.790	9.0	117	-0.01	13.64
86		m,p-xylene	0.738	0.662	10.3	114	0.00	13.75
87		o-xylene	0.699	0.638	8.7	113	-0.01	14.17
88		styrene	1.151	1.055	8.3	112	-0.01	14.18
89		bromoform	0.206	0.228	-10.7	126	-0.01	14.45
90	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	118	-0.01	15.92
91	S	4-bromofluorobenzene (s)	1.002	1.075	-7.3	125	0.00	14.72
92		isopropylbenzene	3.344	3.152	5.7	112	0.00	14.52
		----------	True	Calc.	% Drift	----------		

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VI7333-CC7266
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I181528.D
Project: BMSMC, Building 5 Area, PR

93	cyclohexanone	500.000	916.368	-83.3#	255	-0.01	14.68
	----------	AvgRF	CCRF	% Dev	----------		
94	1,1,2,2-tetrachloroethane	0.693	0.794	-14.6	130	-0.01	14.83
95	trans-1,4-dichloro-2-bute	0.213	0.249	-16.9	139	-0.01	14.87
96	1,2,3-trichloropropane	0.147	0.163	-10.9	121	-0.01	14.90
97	n-propylbenzene	4.065	3.859	5.1	115	-0.01	14.93
98	bromobenzene	0.810	0.785	3.1	116	-0.01	14.92
99	2-chlorotoluene	0.798	0.761	4.6	114	-0.01	15.08
100	4-chlorotoluene	2.550	2.544	0.2	120	-0.02	15.18
101	1,3,5-trimethylbenzene	2.869	2.793	2.6	116	0.00	15.09
102	tert-butylbenzene	2.416	2.274	5.9	115	-0.01	15.44
103	pentachloroethane	0.449	0.510	-13.6	126	-0.01	15.53
104	1,2,4-trimethylbenzene	2.893	2.862	1.1	119	-0.01	15.49
105	sec-butylbenzene	3.696	3.549	4.0	116	-0.01	15.67
106	p-isopropyltoluene	3.083	2.908	5.7	115	-0.01	15.79
107	benzyl chloride	1.266	1.614	-27.5#	145	-0.01	16.07
108	1,3-dichlorobenzene	1.596	1.529	4.2	115	-0.01	15.86
109	1,4-dichlorobenzene	1.615	1.541	4.6	115	0.00	15.95
110	1,2-dichlorobenzene	1.520	1.456	4.2	117	0.00	16.36
	----------	True	Calc.	% Drift	----------		
111	n-butylbenzene	50.000	48.584	2.8	116	-0.01	16.23
	----------	AvgRF	CCRF	% Dev	----------		
112	hexachloroethane	0.584	0.596	-2.1	117	-0.01	16.64
113	1,2-dibromo-3-chloropropa	0.122	0.141	-15.6	126	0.00	17.19
114	1,3,5-Trichlorobenzene	1.330	1.306	1.8	118	0.00	17.38
115	1,2,4-trichlorobenzene	1.090	1.126	-3.3	119	-0.01	18.04
116	hexachlorobutadiene	0.736	0.723	1.8	124	-0.01	18.17
117	naphthalene	1.760	2.040	-15.9	125	-0.01	18.33
118	1,2,3-trichlorobenzene	0.905	0.982	-8.5	120	-0.01	18.59

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I180697.D MI7266.M Mon Feb 18 08:39:27 2013 RPT1

Initial Calibration Summary

Job Number: JB28370 **Sample:** VY5578-ICC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129655.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSY

Method : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Feb 27 16:31:25 2013
Response via : Initial Calibration

Calibration Files
5 =Y129650.D 10 =Y129649.D 0.5 =Y129653.D 50 =Y129655.D
100 =Y129657.D 1 =Y129652.D 200 =Y129658.D 20 =Y129654.D
2 =Y129651.D 75 =Y129656.D = =

Compound

	5	10	0.5	50	100	1	200	20	2	75	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------												
2) 1,4-dioxane	0.084	0.102		0.105	0.110		0.102	0.108	0.074	0.107	0.099	12.95
3) tertiary butyl alcohol	1.130	1.194		1.186	1.133		1.090	1.319	1.034	1.137	1.153	7.31
4) I pentafluorobenzene ----------ISTD----------												
5) propene	0.382	0.483		0.435	0.493	0.606		0.436	0.502		0.477	14.88
6) freon 141b	0.338	0.402		0.353	0.330	0.336	0.401	0.373	0.343	0.365	0.360	7.55
7) freon 142b	0.402	0.483		0.422	0.451	0.383	0.428	0.448	0.389	0.433	0.426	7.51
8) freon 143a	0.272	0.349		0.280		0.253	0.309	0.290	0.263	0.277	0.287	10.55
9) chlorodifluoromethane	0.352	0.427		0.383	0.372		0.367	0.412	0.362	0.375	0.381	6.74
10) dichlorodifluoromethane	0.509	0.599		0.532	0.520		0.534	0.542	0.462	0.531	0.529	7.18
11) chloromethane	0.533	0.586		0.505	0.504	0.670	0.498	0.523	0.610	0.504	0.548	11.01
12) vinyl chloride	0.498	0.550		0.480	0.487	0.449	0.490	0.487	0.468	0.495	0.489	5.60
13) bromomethane	0.318	0.362		0.315	0.296	0.334	0.255	0.324	0.316	0.295	0.313	9.50
14) chloroethane	0.232	0.259		0.228	0.221		0.208	0.228	0.195	0.222	0.224	8.40
15) Vinyl Bromide											0.000	-1.00
16) trichlorofluoromethane	0.606	0.676		0.606	0.595		0.594	0.625	0.558	0.608	0.609	5.46
17) ethyl ether	0.237	0.246		0.243	0.232	0.326	0.231	0.236	0.264	0.219	0.248	12.75
18) 2-chloropropane	0.135	0.174		0.148	0.148		0.148	0.157	0.108	0.147	0.146	12.89
19) acrolein	0.070	0.068		0.072	0.091	0.064	0.085	0.069	0.066	0.065	0.072	12.76
20) 1,1-dichloroethene	0.550	0.634		0.538	0.503		0.490	0.582		0.517	0.545	9.16
21) acetone		0.029		0.031	0.035		0.031	0.034		0.029	0.032	8.19
22) allyl chloride	0.229	0.271		0.239	0.233	0.217	0.222	0.249	0.204	0.225	0.232	8.42
23) acetonitrile												

Initial Calibration Summary

Job Number: JB28370 **Sample:** VY5578-ICC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129655.D
Project: BMSMC, Building 5 Area, PR

```
            0.012       0.018 0.017       0.017 0.016       0.016  0.016   13.90
24)  iodomethane
      0.731 0.811 0.689 0.772 0.744 0.851 0.743 0.777 0.813 0.727  0.766    6.34
25)  iso-butyl alcohol
      0.015 0.014       0.013 0.012       0.011 0.015       0.012  0.013   12.29
26)  carbon disulfide
      1.232 1.411 1.162 1.223 1.200 1.206 1.193 1.318 1.103 1.202  1.225    6.92
27)  1-chloropropane
      0.028 0.034       0.030 0.028       0.028 0.032       0.029  0.030    8.41
28)  methylene chloride
      0.565 0.598       0.562 0.523       0.498 0.578 0.605 0.514  0.555    7.13
29)  methyl acetate
      0.041 0.056       0.060 0.060       0.060 0.058       0.056  0.056   12.05
30)  methyl tert butyl ether
      1.253 1.242 1.227 1.265 1.180 1.288 1.161 1.270 1.277 1.140  1.230    4.24
31)  trans-1,2-dichloroethene
      0.523 0.602 0.433 0.535 0.506 0.512 0.482 0.573 0.509 0.508  0.518    8.90
32)  di-isopropyl ether
      1.295 1.449       1.401 1.290       1.250 1.416 1.424 1.274  1.350    5.91
33)  ethyl tert-butyl ether
      1.304 1.386       1.404 1.302       1.266 1.419 1.395 1.266  1.343    4.81
34)  2-butanone
      0.030 0.036       0.044 0.047       0.042 0.047       0.042  0.041   14.56
35)  1,1-dichloroethane
      0.690 0.774 0.679 0.713 0.658 0.714 0.631 0.743 0.679 0.656  0.694    6.20
36)  chloroprene
      0.495 0.582       0.522 0.492       0.476 0.569 0.571 0.509  0.527    7.82
37)  acrylonitrile
      0.122 0.114       0.121 0.113 0.102 0.108 0.124 0.110 0.108  0.113    6.68
38)  vinyl acetate
            0.049       0.057 0.055       0.055 0.052       0.053  0.053    5.55
39)  ethyl acetate
      0.039 0.044       0.050 0.046       0.046 0.047       0.045  0.045    7.46
40)  2,2-dichloropropane
      0.571 0.652 0.554 0.567 0.548 0.593 0.529 0.624 0.538 0.559  0.573    6.80
41)  cis-1,2-dichloroethene
      0.460 0.491 0.540 0.473 0.436 0.519 0.420 0.482 0.492 0.435  0.475    8.06
42)  propionitrile
      0.046 0.046       0.049 0.047       0.046 0.054 0.043 0.044  0.047    7.14
43)  bromochloromethane
      0.292 0.312       0.311 0.290 0.276 0.282 0.310 0.293 0.279  0.294    4.77
44)  tetrahydrofuran
      0.046 0.048       0.050 0.047       0.046 0.053       0.045  0.048    5.55
45)  chloroform
      0.741 0.788 0.869 0.755 0.687 0.776 0.658 0.793 0.738 0.692  0.750    8.21
46)  tert-Butyl Formate
      0.294 0.304       0.318 0.302       0.298 0.320 0.305 0.295  0.305    3.17
47)  dibromofluoromethane (s)
            0.312       0.426 0.387       0.382 0.420       0.387  0.386   10.58
48)  1,2-dichloroethane-d4 (s)
            0.321       0.442 0.388       0.360 0.438       0.390  0.390   11.80
49)  freon 113
      0.259 0.304       0.250 0.263       0.268 0.290       0.252  0.269    7.45
50)  methacrylonitrile
      0.134 0.141       0.152 0.147       0.145 0.155       0.140  0.145    5.00
51)  1,1,1-trichloroethane
      0.590 0.662 0.576 0.590 0.566 0.601 0.555 0.645 0.555 0.575  0.591    6.13
52)  Cyclohexane
      0.524 0.604 0.467 0.500 0.481 0.558 0.478 0.561 0.522 0.493  0.519    8.47
53)  2,2,4-trimethylpentane
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VY5578-ICC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129655.D
Project: BMSMC, Building 5 Area, PR

```
      1.299 1.519       1.226 1.211       1.166 1.464 1.404 1.236  1.316    9.91
54)  tert-amyl methyl ether
      1.243 1.296       1.250 1.130       1.071 1.301 1.406 1.117  1.227    9.19

55) I   1,4-difluorobenzene   ----------------ISTD--------------------
56)  epichlorohydrin
      0.022 0.022       0.023 0.023       0.023 0.026       0.022  0.023    6.14
57)  n-butyl alcohol
      0.008 0.008       0.008 0.008       0.008 0.009       0.007  0.008    6.80
58)  carbon tetrachloride
      0.357 0.408 0.323 0.351 0.332 0.363 0.321 0.389 0.356 0.344  0.355    7.83
59)  1,1-dichloropropene
      0.345 0.382 0.296 0.333 0.316 0.342 0.301 0.365 0.332 0.321  0.333    8.08
60)  hexane
      0.299 0.345       0.284 0.279       0.273 0.327 0.338 0.282  0.303    9.60
61)  Tert Amyl Alcohol
      0.019 0.015       0.016 0.016       0.015 0.016 0.017 0.015  0.016    9.64
62)  benzene
      1.115 1.179 1.265 1.050 0.956 1.259 0.900 1.117 1.149 0.959  1.095   11.57
63)  heptane
      0.176 0.205       0.167 0.162       0.158 0.194 0.189 0.168  0.178    9.50
64)  isopropyl acetate
      0.106 0.102       0.103 0.099       0.094 0.111       0.093  0.101    6.45
65)  1,2-dichloroethane
      0.349 0.345 0.317 0.346 0.310 0.350 0.289 0.356 0.330 0.307  0.330    6.95
66)  trichloroethene
      0.271 0.293 0.250 0.271 0.262 0.279 0.252 0.290 0.264 0.261  0.269    5.49
67)  ethyl acrylate
      0.269 0.262       0.298 0.295       0.279 0.286       0.281  0.282    4.63
68)  2-nitropropane
      0.073 0.068       0.075 0.069       0.064 0.081 0.085 0.066  0.073    9.96
69)  2-chloroethyl vinyl ether
      0.072 0.071       0.077 0.078       0.078 0.081 0.075 0.073  0.076    4.27
70)  methyl methacrylate
      0.164 0.168       0.172 0.166       0.159 0.185 0.168 0.159  0.168    4.98
71)  1,2-dichloropropane
      0.282 0.291 0.250 0.274 0.254 0.289 0.238 0.292 0.285 0.249  0.270    7.57
72)  methylcyclohexane
      0.382 0.440       0.366 0.362       0.349 0.428 0.422 0.369  0.390    8.94
73)  Tert-amyl ethyl ether
      0.704 0.708       0.722 0.655       0.627 0.711       0.660  0.684    5.31
74)  dibromomethane
      0.168 0.171       0.176 0.166 0.194 0.160 0.187 0.183 0.160  0.174    6.84
75)  bromodichloromethane
      0.384 0.408 0.381 0.407 0.380 0.416 0.366 0.426 0.387 0.369  0.392    5.20
76)  cis-1,3-dichloropropene
      0.475 0.487 0.375 0.482 0.456 0.478 0.434 0.501 0.449 0.441  0.458    7.91
77)  toluene-d8 (s)
             0.709       0.952 0.872       0.830 0.967       0.884  0.869   10.78
78)  4-methyl-2-pentanone
      0.098 0.094       0.098 0.095       0.091 0.109 0.084 0.091  0.095    7.65
79)  toluene
      1.111 1.204 1.393 1.097 1.022 1.222 0.967 1.157 1.170 1.015  1.136   10.90
80)  3-methyl-1-butanol
      0.008 0.007       0.007 0.007       0.007 0.009 0.007 0.007  0.007    7.31
81)  trans-1,3-dichloropropene
      0.409 0.416 0.341 0.416 0.393 0.410 0.371 0.439 0.415 0.384  0.399    7.04
82)  ethyl methacrylate
      0.313 0.317       0.338 0.323 0.313 0.311 0.350 0.322 0.309  0.322    4.30
83)  1,1,2-trichloroethane
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VY5578-ICC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129655.D
Project: BMSMC, Building 5 Area, PR

```
      0.204 0.196 0.163 0.204 0.196 0.204 0.188 0.217 0.212 0.187  0.197    7.85
 84)  2-hexanone
      0.087 0.090       0.091 0.093       0.081 0.104       0.081  0.089    8.99

 85) I   chlorobenzene-d5      ----------------ISTD---------------------
 86)  tetrachloroethene
      0.379 0.411 0.321 0.349 0.339 0.381 0.326 0.385 0.368 0.349  0.361    7.96
 87)  1,3-dichloropropane
      0.468 0.475 0.430 0.455 0.423 0.504 0.394 0.497 0.511 0.424  0.458    8.66
 88)  butyl acetate
      0.181 0.187       0.181 0.176       0.163 0.206 0.181 0.169  0.180    7.15
 89)  dibromochloromethane
      0.386 0.388 0.345 0.389 0.370 0.397 0.354 0.422 0.382 0.367  0.380    5.83
 90)  1,2-dibromoethane
      0.311 0.309 0.228 0.306 0.299 0.310 0.287 0.334 0.322 0.291  0.300    9.58
 91)  3,3-Dimethyl-1-Butanol
      0.035 0.033       0.029 0.029       0.028 0.035 0.032 0.029  0.031    8.91
 92)  chlorobenzene
      0.892 0.947 0.934 0.890 0.840 0.987 0.811 0.942 0.922 0.846  0.901    6.18
 93)  1,1,1,2-tetrachloroethane
      0.331 0.358 0.314 0.344 0.310 0.387 0.297 0.367 0.353 0.319  0.338    8.53
 94)  ethylbenzene
      1.453 1.575 1.565 1.391 1.292 1.549 1.223 1.538 1.521 1.340  1.445    8.73
 95)  m,p-xylene
      0.566 0.615 0.630 0.525 0.494 0.609 0.467 0.594 0.585 0.504  0.559   10.20
 96)  o-xylene
      1.197 1.290 1.388 1.198 1.131 1.349 1.072 1.307 1.273 1.152  1.236    8.23
 97)  styrene
      0.952 1.001 0.934 0.959 0.891 0.988 0.837 1.031 0.953 0.898  0.945    6.07
 98)  bromoform
      0.252 0.256 0.215 0.263 0.255 0.258 0.248 0.280 0.256 0.253  0.254    6.45

 99) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
100)  isopropylbenzene
      2.866 3.183 3.266 2.772 2.725 3.154 2.624 3.136 2.866 2.780  2.937    7.70
101)  4-bromofluorobenzene (s)
            0.623       0.905 0.864       0.837 0.941       0.865  0.839   13.33
102)  bromobenzene
      0.862 0.886 0.946 0.824 0.773 0.916 0.729 0.898 0.851 0.773  0.846    8.30
103)  cyclohexanone
      0.109 0.109 0.096 0.084 0.107 0.112 0.079 0.119 0.096 0.079  0.099   14.63
104)  1,1,2,2-tetrachloroethane
      0.802 0.769 0.868 0.761 0.759 0.872 0.735 0.849 0.805 0.734  0.795    6.60
105)  trans-1,4-dichloro-2-butene
      0.175 0.188       0.195 0.195       0.187 0.208 0.167 0.195  0.189    6.88
106)  1,2,3-trichloropropane
      0.195 0.184       0.183 0.175 0.201 0.164 0.201 0.215 0.177  0.188    8.53
107)  n-propylbenzene
      3.350 3.660 3.660 3.184 3.095 3.794 2.956 3.598 3.332 3.185  3.381    8.34
108)  4-Ethyltoluene
      2.930 2.948       2.646 2.558 3.305 2.505 2.795 2.827 2.652  2.796    8.82
109)  2-chlorotoluene
      0.755 0.775       0.669 0.643       0.618 0.743 0.754 0.651  0.701    8.80
110)  4-chlorotoluene
      2.235 2.318       2.119 2.037 2.579 1.975 2.304 2.358 2.047  2.219    8.70
111)  1,3,5-trimethylbenzene
      2.397 2.681       2.325 2.220 2.856 2.133 2.626 2.469 2.268  2.441    9.76
112)  tert-butylbenzene
      1.993 2.219       1.956 1.925 2.262 1.907 2.187 2.071 1.964  2.054    6.63
113)  pentachloroethane
```

Initial Calibration Summary

Job Number: JB28370 **Sample:** VY5578-ICC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129655.D
Project: BMSMC, Building 5 Area, PR

```
       0.550 0.571       0.551 0.522 0.613 0.507 0.594 0.570 0.521  0.555    6.36
114)  1,2,4-trimethylbenzene
       2.497 2.718       2.434 2.305 2.845 2.197 2.660 2.550 2.317  2.503    8.50
115)  sec-butylbenzene
       3.006 3.333       2.884 2.833 3.478 2.751 3.213 3.090 2.909  3.055    7.99
116)  1,3-dichlorobenzene
       1.531 1.610       1.504 1.462 1.706 1.410 1.616 1.554 1.440  1.537    6.21
117)  p-isopropyltoluene
       2.497 2.732       2.416 2.382 2.737 2.307 2.700 2.463 2.432  2.519    6.46
118)  1,4-dichlorobenzene
       1.502 1.543       1.510 1.454 1.801 1.415 1.609 1.566 1.422  1.536    7.72
119)  1,2-dichlorobenzene
       1.454 1.475       1.487 1.426 1.610 1.373 1.546 1.529 1.398  1.478    5.10
120)  n-butylbenzene
       0.505 0.616       0.552 0.545 0.581 0.472 0.626 0.524 0.554  0.553    9.04
121)  p-Diethylbenzene
       1.466 1.522 1.726 1.459 1.445 1.616 1.411 1.527 1.415 1.478  1.507    6.52
122)  1,2-dibromo-3-chloropropane
       0.155 0.145       0.162 0.164 0.149 0.166 0.178 0.157 0.158  0.159    5.98
123)  1,3,5-Trichlorobenzene
       1.110 1.229       1.215 1.210 1.187 1.156 1.293 1.137 1.173  1.190    4.57
124)  1,2,4-trichlorobenzene
       0.922 1.001       1.104 1.122 0.979 1.084 1.120 0.930 1.050  1.035    7.67
125)  1,2,4,5-tetramethylbenzene
       2.356 2.561       2.617 2.533 2.751 2.459 2.559 2.425 2.548  2.534    4.51
126)  hexachlorobutadiene
       0.582 0.633       0.573 0.558 0.563 0.514 0.638 0.579 0.570  0.579    6.54
127)  naphthalene
       1.930 1.924       2.160 2.177 1.971 2.086 2.268 1.913 2.073  2.056    6.27
128)  1,2,3-trichlorobenzene
       0.838 0.904       0.992 0.960 0.877 0.900 1.002 0.837 0.923  0.915    6.62
129)  hexachloroethane
       0.526 0.571       0.545 0.535 0.571 0.530 0.589 0.520 0.546  0.548    4.34
130)  Benzyl chloride
       1.348 1.485       1.387 1.466       1.426 1.608 1.377 1.414  1.439    5.70
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MY5578.M          Wed Feb 27 16:41:36 2013   RPT1
```

Initial Calibration Verification

Job Number: JB28370 **Sample:** VY5578-ICV5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129660.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDChem\1\DATA\ol...9000-129999\Y129660.D Vial: 14
Acq On    :  7 Jan 2013   5:55 pm                    Operator: ROBERTS
Sample    : ICV5578-50                                Inst    : MSY
Misc      : MS40825,VY5578,5.0,,,,1                   Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 11 17:03:48 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  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	126	0.01	7.66
2	1,4-dioxane	0.099	0.106	-7.1	126	0.00	11.47
3	tertiary butyl alcohol	1.153	1.240	-7.5	131	0.00	7.77
4 I	pentafluorobenzene	1.000	1.000	0.0	117	0.00	9.83
5	freon 141b	0.360	0.384	-6.7	128	0.00	6.52
6	freon 142b	0.426	0.445	-4.5	124	0.00	4.44
7	freon 143a	0.287	0.302	-5.2	127	0.00	3.83
8	chlorodifluoromethane	0.381	0.380	0.3	116	0.00	4.18
9	dichlorodifluoromethane	0.529	0.554	-4.7	122	-0.01	4.14
10	chloromethane	0.548	0.545	0.5	127	0.00	4.51
11	vinyl chloride	0.489	0.537	-9.8	131	0.00	4.78
12	bromomethane	0.313	0.343	-9.6	128	0.01	5.47
13	chloroethane	0.224	0.248	-10.7	128	0.00	5.64
14	Vinyl Bromide		----------NA----------				
15	trichlorofluoromethane	0.609	0.640	-5.1	124	0.00	6.08
16	ethyl ether	0.248	0.264	-6.5	128	0.00	6.49
17	2-chloropropane	0.146	0.162	-11.0	129	0.00	6.71
18	acrolein	0.072	0.106	-47.2#	174	0.00	6.81
19	1,1-dichloroethene	0.545	0.554	-1.7	121	0.00	6.94
20	acetone	0.032	0.036	-12.5	133	-0.01	7.04
21	allyl chloride	0.232	0.247	-6.5	121	0.00	7.48
22	acetonitrile	0.016	0.018	-12.5	118	0.00	7.53
23	iodomethane	0.766	0.799	-4.3	121	0.00	7.24
24	iso-butyl alcohol	0.013	0.013	0.0	119	0.00	10.15
25	carbon disulfide	1.225	1.279	-4.4	123	0.00	7.35
26	1-chloropropane	0.030	0.032	-6.7	123	0.00	7.69
27	methylene chloride	0.555	0.576	-3.8	120	0.00	7.69
28	methyl acetate	0.056	0.061	-8.9	119	0.00	7.48
29	methyl tert butyl ether	1.230	1.292	-5.0	120	0.00	7.96
30	trans-1,2-dichloroethene	0.518	0.541	-4.4	119	0.00	8.03
31	di-isopropyl ether	1.350	1.443	-6.9	121	0.00	8.53
32	ethyl tert-butyl ether	1.343	1.432	-6.6	120	0.00	9.00
33	2-butanone	0.041	0.049	-19.5	131	0.00	9.33
34	1,1-dichloroethane	0.694	0.748	-7.8	123	0.00	8.61
35	chloroprene	0.527	0.518	1.7	117	0.00	8.69
36	acrylonitrile	0.113	0.126	-11.5	122	0.00	8.06
37	vinyl acetate	0.053	0.074	-39.6#	152	0.00	8.59
38	ethyl acetate	0.045	0.053	-17.8	124	0.00	9.31
39	2,2-dichloropropane	0.573	0.590	-3.0	122	0.00	9.33
40	cis-1,2-dichloroethene	0.475	0.497	-4.6	123	0.00	9.34
41	propionitrile	0.047	0.051	-8.5	122	0.00	9.47

Initial Calibration Verification

Job Number: JB28370 **Sample:** VY5578-ICV5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129660.D
Project: BMSMC, Building 5 Area, PR

42		bromochloromethane	0.294	0.328	-11.6	124	0.00	9.66
43		tetrahydrofuran	0.048	0.056	-16.7	133	0.00	9.68
44		chloroform	0.750	0.771	-2.8	120	0.00	9.71
45		tert-Butyl Formate	0.305	0.351	-15.1	130	0.00	9.72
46	S	dibromofluoromethane (s)	0.386	0.429	-11.1	118	0.00	9.91
47	S	1,2-dichloroethane-d4 (s)	0.390	0.422	-8.2	112	0.00	10.34
48		freon 113	0.269	0.280	-4.1	132	0.00	6.87
49		methacrylonitrile	0.145	0.163	-12.4	126	0.00	9.62
50		1,1,1-trichloroethane	0.591	0.605	-2.4	120	0.00	9.93
51		Cyclohexane	0.519	0.522	-0.6	122	0.00	9.98
52		2,2,4-trimethylpentane	1.316	1.254	4.7	120	0.00	10.31
53		tert-amyl methyl ether	1.227	1.312	-6.9	123	0.00	10.37
54	I	1,4-difluorobenzene	1.000	1.000	0.0	117	0.00	10.74
55		epichlorohydrin	0.023	0.026	-13.0	131	0.00	12.01
56		n-butyl alcohol	0.008	0.009	-12.5	135	0.00	10.89
57		carbon tetrachloride	0.355	0.363	-2.3	121	0.00	10.12
58		1,1-dichloropropene	0.333	0.352	-5.7	124	0.00	10.11
59		hexane	0.303	0.299	1.3	124	0.00	8.27
60		Tert Amyl Alcohol	0.016	0.018	-9.0	132	0.00	10.26
61		benzene	1.095	1.104	-0.8	123	0.00	10.38
62		heptane	0.178	0.179	-0.6	126	0.00	10.48
63		isopropyl acetate	0.101	0.114	-12.9	129	0.00	10.28
64		1,2-dichloroethane	0.330	0.344	-4.2	117	0.00	10.42
65		trichloroethene	0.269	0.293	-8.9	127	0.00	11.07
66		ethyl acrylate	0.282	0.324	-14.9	128	0.00	11.07
67		2-nitropropane	0.073	0.074	-1.4	117	0.00	11.88
68		2-chloroethyl vinyl ether	0.076	0.087	-14.5	133	0.00	11.86
69		methyl methacrylate	0.168	0.192	-14.3	131	0.00	11.33
70		1,2-dichloropropane	0.270	0.291	-7.8	124	0.00	11.36
71		methylcyclohexane	0.390	0.376	3.6	121	0.00	11.25
72		Tert-amyl ethyl ether	0.684	0.718	-4.9	117	0.00	11.19
73		dibromomethane	0.174	0.191	-9.8	128	0.00	11.53
74		bromodichloromethane	0.392	0.422	-7.7	121	0.00	11.64
75		cis-1,3-dichloropropene	0.458	0.490	-7.0	119	0.00	12.08
76	S	toluene-d8 (s)	0.869	0.983	-13.1	121	0.00	12.34
77		4-methyl-2-pentanone	0.095	0.107	-12.6	128	0.00	12.17
78		toluene	1.136	1.154	-1.6	123	0.00	12.41
79		3-methyl-1-butanol	0.007	0.008	-14.3	129	0.00	12.19
80		trans-1,3-dichloropropene	0.399	0.435	-9.0	123	0.00	12.63
81		ethyl methacrylate	0.322	0.349	-8.4	121	0.00	12.59
82		1,1,2-trichloroethane	0.197	0.223	-13.2	129	0.00	12.85
83		2-hexanone	0.089	0.103	-15.7	133	0.00	13.00
84	I	chlorobenzene-d5	1.000	1.000	0.0	118	0.00	13.84
85		tetrachloroethene	0.361	0.375	-3.9	127	0.00	12.97
86		1,3-dichloropropane	0.458	0.482	-5.2	125	0.00	13.02
87		butyl acetate	0.180	0.204	-13.3	133	0.00	13.05
88		dibromochloromethane	0.380	0.401	-5.5	122	0.00	13.29
89		1,2-dibromoethane	0.300	0.333	-11.0	128	0.00	13.44
90		3,3-Dimethyl-1-Butanol	0.031	0.033	-6.5	134	0.00	13.17
91		chlorobenzene	0.901	0.937	-4.0	124	0.00	13.86
92		1,1,1,2-tetrachloroethane	0.338	0.351	-3.8	120	0.00	13.92
93		ethylbenzene	1.445	1.464	-1.3	124	0.00	13.90
94		m,p-xylene	0.559	0.558	0.2	125	0.00	14.00
95		o-xylene	1.236	1.260	-1.9	124	0.00	14.42
96		styrene	0.945	0.991	-4.9	122	0.00	14.43
97		bromoform	0.254	0.271	-6.7	121	0.00	14.72
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	117	0.00	16.11

Initial Calibration Verification

Job Number: JB28370 **Sample:** VY5578-ICV5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y129660.D
Project: BMSMC, Building 5 Area, PR

99		isopropylbenzene	2.937	2.952	-0.5	124	0.00	14.74
100	S	4-bromofluorobenzene (s)	0.839	0.943	-12.4	122	0.00	14.96
101		bromobenzene	0.846	0.864	-2.1	122	0.00	15.16
102		cyclohexanone	0.099	0.094	5.1	132	0.00	14.96
103		1,1,2,2-tetrachloroethane	0.795	0.801	-0.8	123	0.00	15.09
104		trans-1,4-dichloro-2-bute	0.189	0.197	-4.2	118	0.00	15.13
105		1,2,3-trichloropropane	0.188	0.194	-3.2	123	0.00	15.16
106		n-propylbenzene	3.381	3.443	-1.8	126	0.00	15.14
107		4-Ethyltoluene	2.796	2.800	-0.1	124	0.00	15.24
108		2-chlorotoluene	0.701	0.716	-2.1	125	0.00	15.30
109		4-chlorotoluene	2.219	2.194	1.1	121	0.00	15.40
110		1,3,5-trimethylbenzene	2.441	2.418	0.9	121	0.00	15.28
111		tert-butylbenzene	2.054	2.094	-1.9	125	0.00	15.63
112		pentachloroethane	0.555	0.569	-2.5	121	0.00	15.74
113		1,2,4-trimethylbenzene	2.503	2.539	-1.4	122	0.00	15.68
114		sec-butylbenzene	3.055	3.034	0.7	123	0.00	15.84
115		1,3-dichlorobenzene	1.537	1.592	-3.6	124	0.00	16.05
116		p-isopropyltoluene	2.519	2.664	-5.8	129	0.00	15.96
117		1,4-dichlorobenzene	1.536	1.549	-0.8	120	0.00	16.14
118		1,2-dichlorobenzene	1.478	1.522	-3.0	119	0.00	16.53
119		n-butylbenzene	0.553	0.590	-6.7	125	0.00	16.37
120		p-Diethylbenzene	1.507	1.532	-1.7	123	0.00	16.34
121		1,2-dibromo-3-chloropropa	0.159	0.178	-11.9	128	0.00	17.32
122		1,3,5-Trichlorobenzene	1.190	1.243	-4.5	119	0.00	17.46
123		1,2,4-trichlorobenzene	1.035	1.170	-13.0	124	0.00	18.11
124		1,2,4,5-tetramethylbenzen	2.534	2.668	-5.3	119	0.00	17.12
125		hexachlorobutadiene	0.579	0.588	-1.6	120	0.00	18.20
126		naphthalene	2.056	2.318	-12.7	125	0.00	18.41
127		1,2,3-trichlorobenzene	0.915	1.016	-11.0	120	0.00	18.66
128		hexachloroethane	0.548	0.552	-0.7	118	0.00	16.76
129		Benzyl chloride	1.439	1.583	-10.0	133	0.00	16.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y129655.D MY5578.M Fri Jan 11 17:07:52 2013 RPT1

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VY5654-CC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y131343.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDChem\1\DATA\Y131343.D                    Vial: 2
Acq On    : 25 Feb 2013  10:25 am                     Operator: ROBERTS
Sample    : CC5578-20                                 Inst    : MSY
Misc      : MS43000,VY5654,5.0,,,,1                   Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title        : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 11 17:03:48 2013
Response via : Multiple Level Calibration

Min. RRF     :   0.000  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	104	0.00	7.65
2		1,4-dioxane	0.099	0.092	7.1	88	0.00	11.47
3		tertiary butyl alcohol	1.153	1.132	1.8	89	-0.01	7.76
4	I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	9.82
5		freon 141b		----------NA----------				
6		freon 142b		----------NA----------				
7		freon 143a		----------NA----------				
8		chlorodifluoromethane	0.381	0.315	17.3	72	0.00	4.18
9		dichlorodifluoromethane	0.529	0.482	8.9	84	0.00	4.15
10		chloromethane	0.548	0.472	13.9	85	0.00	4.51
11		vinyl chloride	0.489	0.456	6.7	88	-0.01	4.77
12		bromomethane	0.313	0.330	-5.4	96	0.00	5.46
13		chloroethane	0.224	0.228	-1.8	94	0.00	5.63
14		Vinyl Bromide		----------NA----------				
15		trichlorofluoromethane	0.609	0.664	-9.0	100	0.00	6.08
16		ethyl ether	0.248	0.225	9.3	89	-0.01	6.48
17		2-chloropropane	0.146	0.139	4.8	83	0.00	6.71
18		acrolein	0.072	0.071	1.4	96	0.00	6.81
19		1,1-dichloroethene	0.545	0.502	7.9	81	-0.01	6.92
20		acetone	0.032	0.026	18.8	72	0.00	7.05
21		allyl chloride	0.232	0.212	8.6	80	0.00	7.47
22		acetonitrile	0.016	0.018	-12.5	101	0.00	7.53
23		iodomethane	0.766	0.692	9.7	84	0.00	7.23
24		iso-butyl alcohol	0.013	0.015	-15.4	93	0.00	10.15
25		carbon disulfide	1.225	1.069	12.7	76	0.00	7.34
26		1-chloropropane	0.030	0.029	3.3	85	-0.01	7.68
27		methylene chloride	0.555	0.560	-0.9	91	0.00	7.68
28		methyl acetate	0.056	0.057	-1.8	93	0.00	7.47
29		methyl tert butyl ether	1.230	1.165	5.3	86	0.00	7.96
30		trans-1,2-dichloroethene	0.518	0.498	3.9	82	0.00	8.03
31		di-isopropyl ether	1.350	1.325	1.9	88	0.00	8.52
32		ethyl tert-butyl ether	1.343	1.315	2.1	87	0.00	8.99
33		2-butanone	0.041	0.040	2.4	79	0.00	9.33
34		1,1-dichloroethane	0.694	0.676	2.6	86	0.00	8.60
35		chloroprene	0.527	0.484	8.2	80	0.00	8.69
36		acrylonitrile	0.113	0.124	-9.7	94	0.00	8.05
37		vinyl acetate	0.053	0.051	3.8	92	0.00	8.59
38		ethyl acetate	0.045	0.058	-28.9#	115	0.00	9.31
39		2,2-dichloropropane	0.573	0.546	4.7	82	0.00	9.32
40		cis-1,2-dichloroethene	0.475	0.422	11.2	82	0.00	9.34
41		propionitrile	0.047	0.049	-4.3	86	0.00	9.47

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VY5654-CC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y131343.D
Project: BMSMC, Building 5 Area, PR

42		bromochloromethane	0.294	0.288	2.0	88	0.00	9.66
43		tetrahydrofuran	0.048	0.054	-12.5	95	0.00	9.69
44		chloroform	0.750	0.699	6.8	83	0.00	9.70
45		tert-Butyl Formate	0.305	0.309	-1.3	91	0.00	9.72
46	S	dibromofluoromethane (s)	0.386	0.412	-6.7	92	0.00	9.91
47	S	1,2-dichloroethane-d4 (s)	0.390	0.406	-4.1	87	0.00	10.33
48		freon 113	0.269	0.255	5.2	83	0.00	6.87
49		methacrylonitrile	0.145	0.135	6.9	82	0.00	9.62
50		1,1,1-trichloroethane	0.591	0.576	2.5	84	0.00	9.93
51		Cyclohexane	0.519	0.479	7.7	80	0.00	9.97
52		2,2,4-trimethylpentane	1.316	1.211	8.0	78	0.00	10.30
53		tert-amyl methyl ether	1.227	1.208	1.5	87	0.00	10.37
54	I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.00	10.74
55		epichlorohydrin	0.023	0.023	0.0	83	0.00	12.01
56		n-butyl alcohol	0.008	0.008	0.0	86	0.00	10.89
57		carbon tetrachloride	0.355	0.364	-2.5	87	0.00	10.11
58		1,1-dichloropropene	0.333	0.317	4.8	81	0.00	10.10
59		hexane	0.303	0.272	10.2	77	0.00	8.27
60		Tert Amyl Alcohol		----------NA----------				
61		benzene	1.095	0.962	12.1	80	0.00	10.37
62		heptane	0.178	0.169	5.1	81	0.00	10.48
63		isopropyl acetate	0.101	0.111	-9.9	93	0.00	10.28
64		1,2-dichloroethane	0.330	0.347	-5.2	90	0.00	10.42
65		trichloroethene	0.269	0.251	6.7	80	0.00	11.07
66		ethyl acrylate		----------NA----------				
67		2-nitropropane	0.073	0.080	-9.6	92	0.00	11.88
68		2-chloroethyl vinyl ether	0.076	0.099	-30.3#	113	0.00	11.86
69		methyl methacrylate	0.168	0.165	1.8	83	0.00	11.33
70		1,2-dichloropropane	0.270	0.268	0.7	85	0.00	11.35
71		methylcyclohexane	0.390	0.362	7.2	78	0.00	11.25
72		Tert-amyl ethyl ether		----------NA----------				
73		dibromomethane	0.174	0.168	3.4	84	0.00	11.53
74		bromodichloromethane	0.392	0.375	4.3	82	0.00	11.64
75		cis-1,3-dichloropropene	0.458	0.438	4.4	81	0.00	12.08
76	S	toluene-d8 (s)	0.869	0.926	-6.6	89	0.00	12.34
77		4-methyl-2-pentanone	0.095	0.101	-6.3	87	0.00	12.16
78		toluene	1.136	0.961	15.4	77	0.00	12.41
79		3-methyl-1-butanol	0.007	0.008	-14.3	83	0.00	12.19
80		trans-1,3-dichloropropene	0.399	0.396	0.8	84	0.00	12.63
81		ethyl methacrylate	0.322	0.307	4.7	82	0.00	12.59
82		1,1,2-trichloroethane	0.197	0.189	4.1	81	0.00	12.84
83		2-hexanone	0.089	0.090	-1.1	80	0.00	13.00
84	I	chlorobenzene-d5	1.000	1.000	0.0	89	0.00	13.83
85		tetrachloroethene	0.361	0.347	3.9	80	0.00	12.97
86		1,3-dichloropropane	0.458	0.476	-3.9	85	0.00	13.02
87		butyl acetate	0.180	0.193	-7.2	84	0.00	13.04
88		dibromochloromethane	0.380	0.404	-6.3	85	0.00	13.28
89		1,2-dibromoethane	0.300	0.308	-2.7	82	0.00	13.43
90		3,3-Dimethyl-1-Butanol	0.031	0.032	-3.2	81	0.00	13.16
91		chlorobenzene	0.901	0.833	7.5	79	0.00	13.86
92		1,1,1,2-tetrachloroethane	0.338	0.340	-0.6	82	0.00	13.92
93		ethylbenzene	1.445	1.289	10.8	75	0.00	13.90
94		m,p-xylene	0.559	0.490	12.3	73	0.00	14.00
95		o-xylene	1.236	1.094	11.5	75	0.00	14.41
96		styrene	0.945	0.821	13.1	71	0.00	14.43
97		bromoform	0.254	0.273	-7.5	87	0.00	14.72
98	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	16.11

Continuing Calibration Summary

Job Number: JB28370 **Sample:** VY5654-CC5578
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y131343.D
Project: BMSMC, Building 5 Area, PR

99		isopropylbenzene	2.937	2.552	13.1	72	0.00	14.74
100	S	4-bromofluorobenzene (s)	0.839	0.826	1.5	78	0.00	14.96
101		bromobenzene	0.846	0.760	10.2	75	0.00	15.16
102		cyclohexanone	0.099	0.066	33.3#	49#	0.00	14.96
103		1,1,2,2-tetrachloroethane	0.795	0.760	4.4	80	0.00	15.08
104		trans-1,4-dichloro-2-bute	0.189	0.178	5.8	76	0.00	15.13
105		1,2,3-trichloropropane	0.188	0.204	-8.5	90	0.00	15.16
106		n-propylbenzene	3.381	2.936	13.2	73	0.00	15.14
107		4-Ethyltoluene		----------NA----------				
108		2-chlorotoluene	0.701	0.653	6.8	78	0.00	15.30
109		4-chlorotoluene	2.219	1.906	14.1	74	0.00	15.40
110		1,3,5-trimethylbenzene	2.441	2.132	12.7	72	0.00	15.29
111		tert-butylbenzene	2.054	1.790	12.9	73	0.00	15.63
112		pentachloroethane	0.555	0.513	7.6	77	0.00	15.74
113		1,2,4-trimethylbenzene	2.503	2.143	14.4	72	0.00	15.68
114		sec-butylbenzene	3.055	2.580	15.5	71	0.00	15.84
115		1,3-dichlorobenzene	1.537	1.320	14.1	73	0.00	16.05
116		p-isopropyltoluene	2.519	2.095	16.8	69	0.00	15.96
117		1,4-dichlorobenzene	1.536	1.308	14.8	72	0.00	16.13
118		1,2-dichlorobenzene	1.478	1.284	13.1	74	0.00	16.53
119		n-butylbenzene	0.553	0.469	15.2	67	0.00	16.36
120		p-Diethylbenzene		----------NA----------				
121		1,2-dibromo-3-chloropropa	0.159	0.159	0.0	80	0.00	17.32
122		1,3,5-Trichlorobenzene	1.190	1.026	13.8	71	0.00	17.46
123		1,2,4-trichlorobenzene	1.035	0.869	16.0	69	0.00	18.11
124		1,2,4,5-tetramethylbenzen		----------NA----------				
125		hexachlorobutadiene	0.579	0.554	4.3	77	0.00	18.20
126		naphthalene	2.056	1.596	22.4#	63	0.00	18.40
127		1,2,3-trichlorobenzene	0.915	0.806	11.9	72	0.00	18.66
128		hexachloroethane	0.548	0.507	7.5	77	0.00	16.76
129		Benzyl chloride	1.439	1.245	13.5	69	0.00	16.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y129654.D MY5578.M Mon Feb 25 15:13:35 2013 RPT1

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y131352.D
Acq On : 25 Feb 2013 3:08 pm
Operator : ROBERTS
Sample : JB28370-1
Misc : MS43128,VY5654,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 25 15:31:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.66	65	43731	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	117998	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	167189	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	128471	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	58655	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	49117	53.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.90%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	50107	54.45	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 108.90%			
76) toluene-d8 (s)	12.34	98	153604	52.86	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 105.72%			
100) 4-bromofluorobenzene (s)	14.96	95	51645	52.46	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 104.92%			

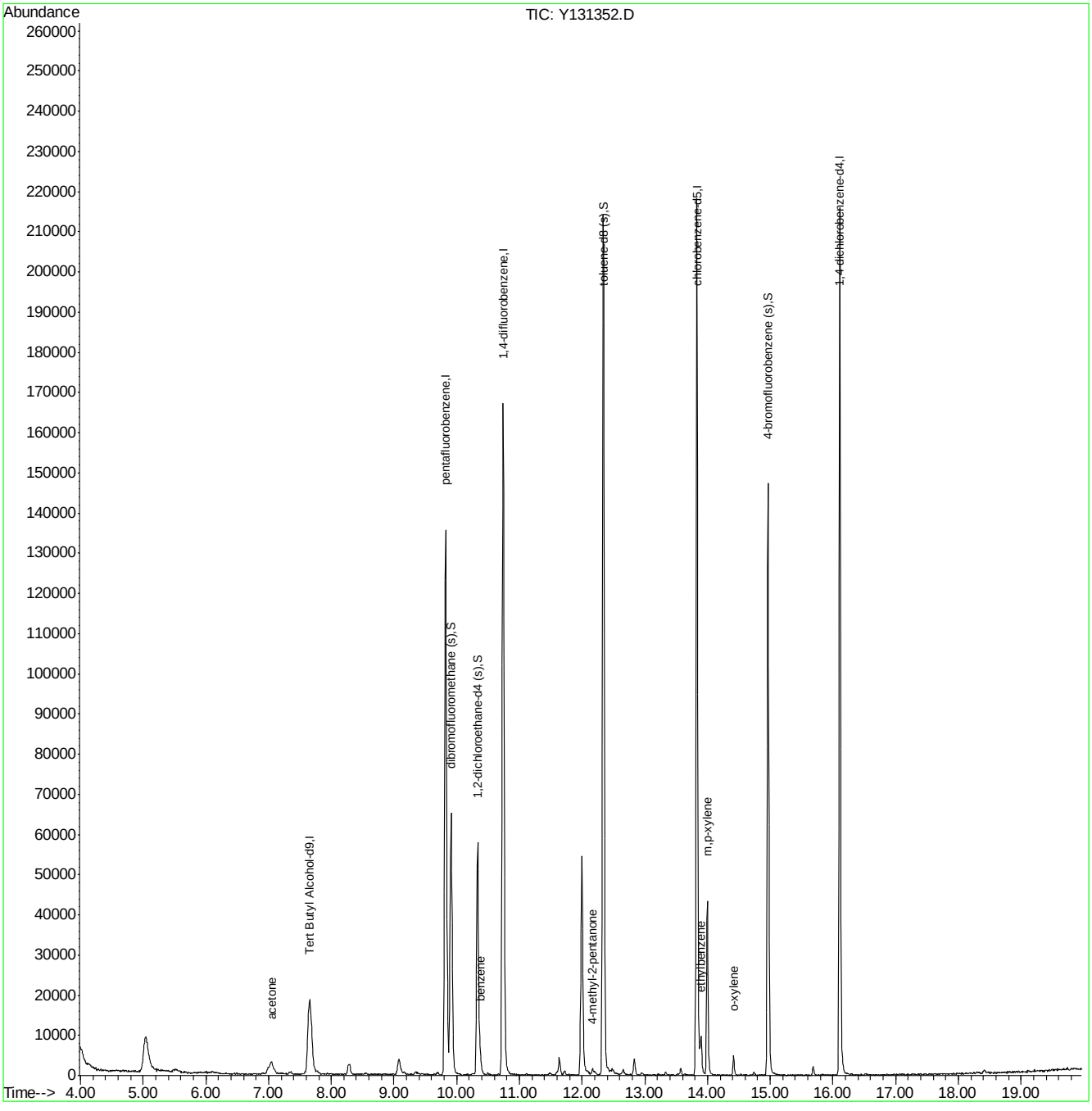
Target Compounds						Qvalue
20) acetone	7.06	58	1982	26.60	ug/L	97
61) benzene	10.38	78	2284	0.62	ug/L	91
77) 4-methyl-2-pentanone	12.16	58	378	1.19	ug/L #	59
93) ethylbenzene	13.90	91	6289	1.69	ug/L	93
94) m,p-xylene	14.00	106	13701	9.54	ug/L	99
95) o-xylene	14.41	91	3292	1.04	ug/L	99

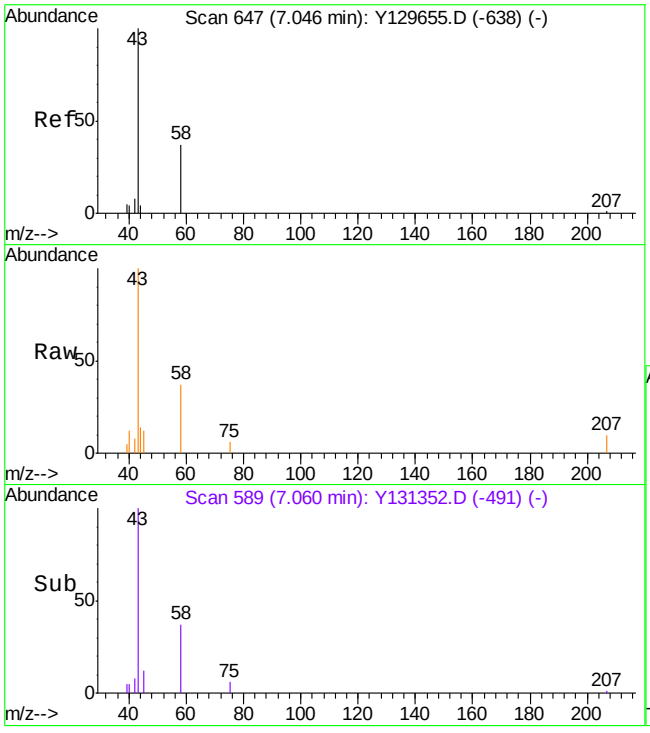
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y131352.D
Acq On : 25 Feb 2013 3:08 pm
Operator : ROBERTS
Sample : JB28370-1
Misc : MS43128,VY5654,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 25 15:31:49 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

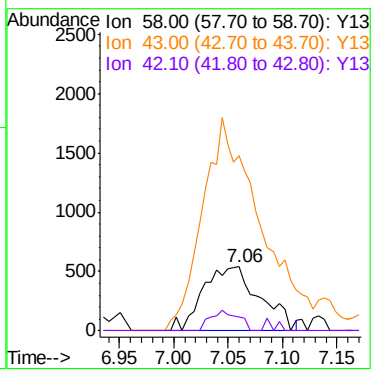


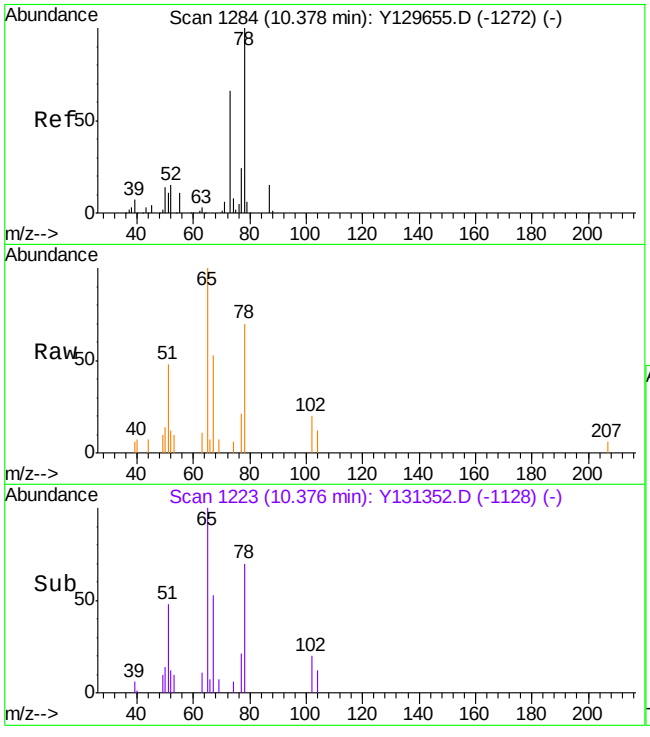


#20
acetone
Concen: 26.60 ug/L
RT: 7.06 min Scan# 589
Delta R.T. 0.01 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion: 58 Resp: 1982

Ion	Ratio	Lower	Upper
58	100		
43	273.7	249.6	309.6
42	21.7	0.0	52.5

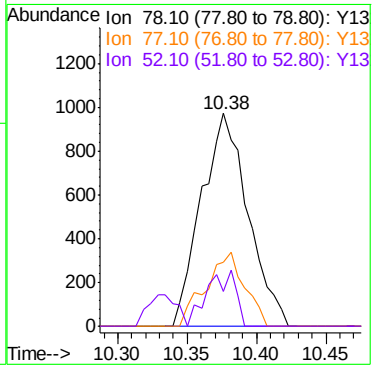


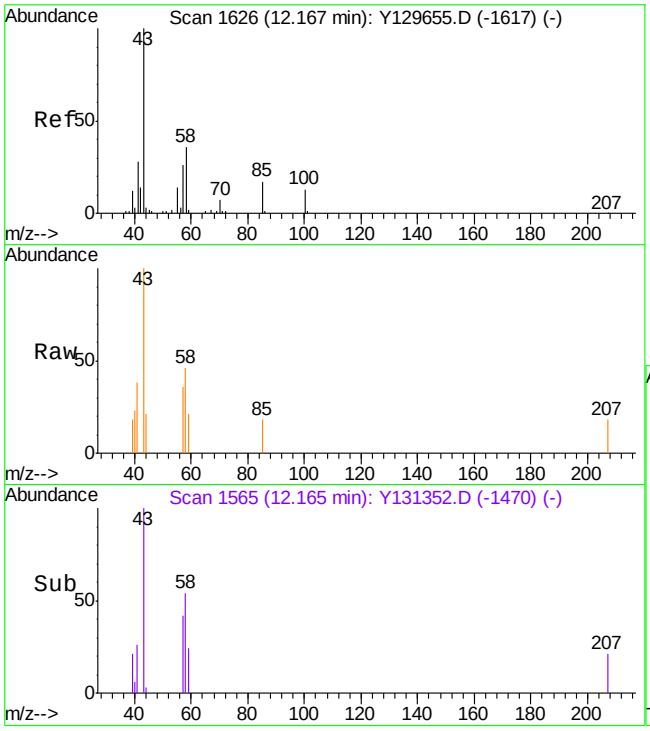


#61
benzene
Concen: 0.62 ug/L
RT: 10.38 min Scan# 1223
Delta R.T. -0.00 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion: 78 Resp: 2284

Ion	Ratio	Lower	Upper
78	100		
77	29.9	0.0	53.7
52	16.5	0.0	45.0

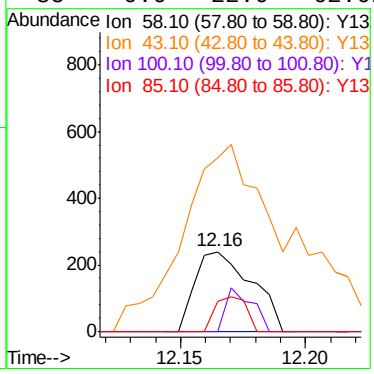


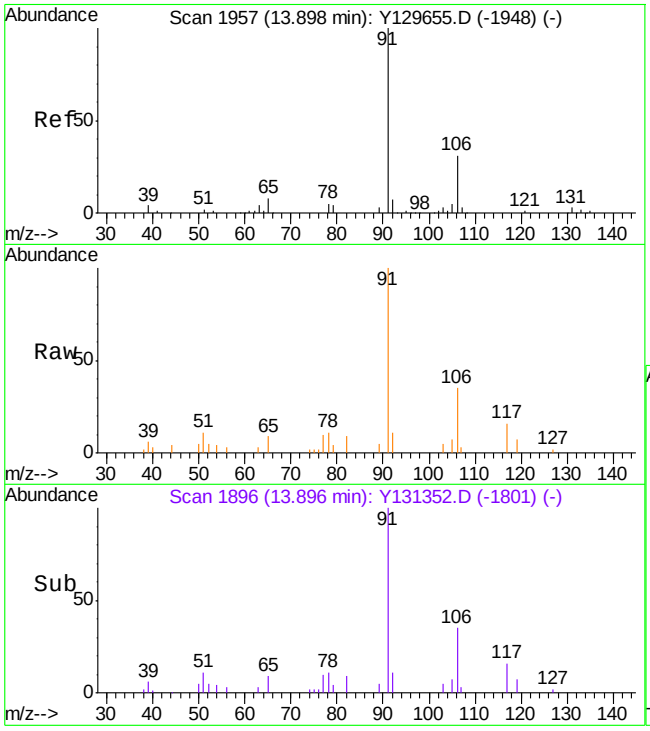


#77
4-methyl-2-pentanone
Concen: 1.19 ug/L
RT: 12.16 min Scan# 1565
Delta R.T. -0.00 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion: 58 Resp: 378

Ion	Ratio	Lower	Upper
58	100		
43	448.9	337.3	397.3#
100	0.0	3.0	63.0#
85	0.0	22.0	62.0#

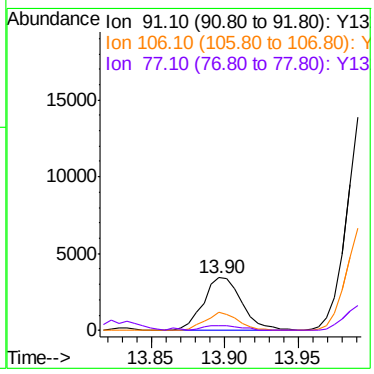


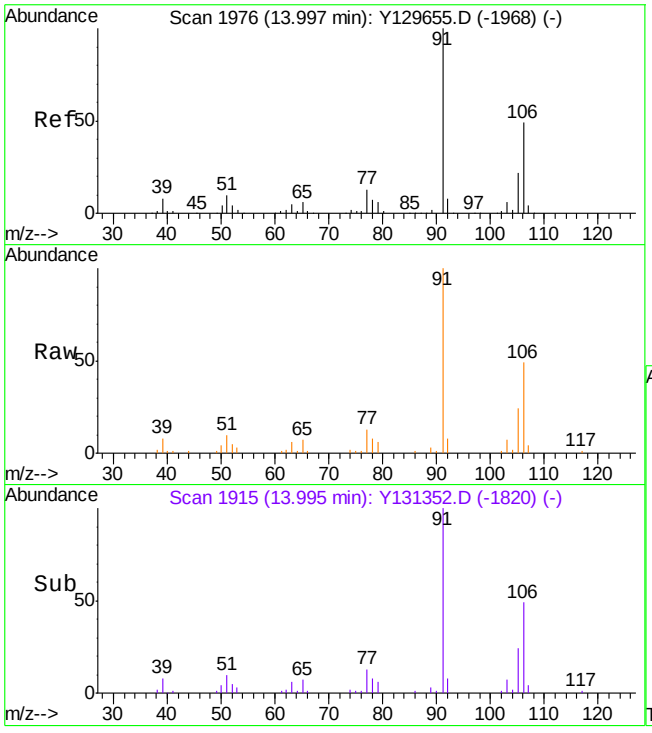


#93
ethylbenzene
Concen: 1.69 ug/L
RT: 13.90 min Scan# 1896
Delta R.T. -0.00 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion: 91 Resp: 6289

Ion	Ratio	Lower	Upper
91	100		
106	35.2	1.1	61.1
77	9.8	0.0	38.4

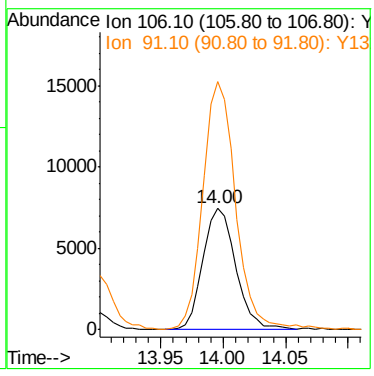


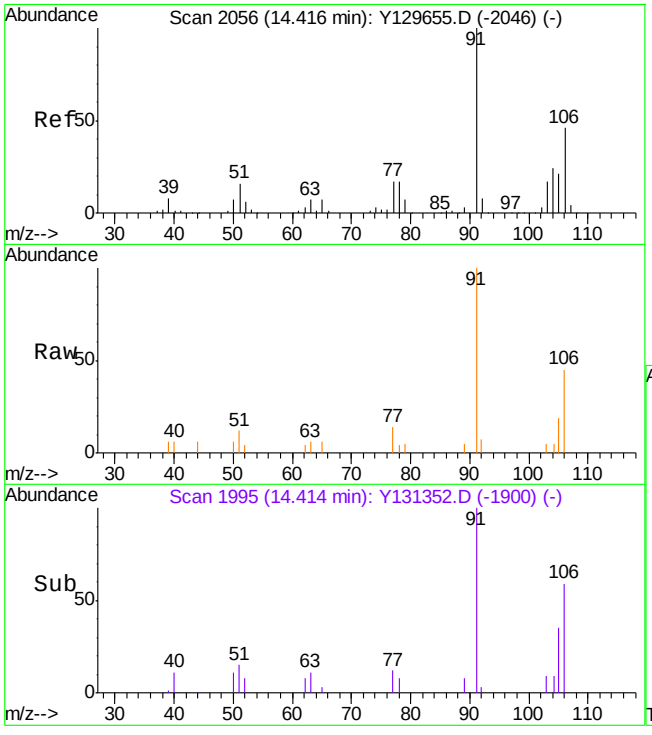


#94
m,p-xylene
Concen: 9.54 ug/L
RT: 14.00 min Scan# 1915
Delta R.T. -0.00 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion:106 Resp: 13701

Ion	Ratio	Lower	Upper
106	100		
91	203.1	143.5	266.5

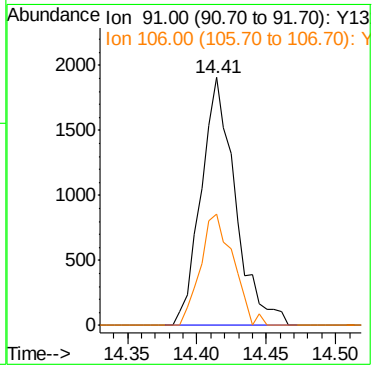




#95
o-xylene
Concen: 1.04 ug/L
RT: 14.41 min Scan# 1995
Delta R.T. -0.00 min
Lab File: Y131352.D
Acq: 25 Feb 2013 3:08 pm

Tgt Ion: 91 Resp: 3292

Ion	Ratio	Lower	Upper
91	100		
106	45.1	32.1	59.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205472.D
Acq On : 14 Feb 2013 5:25 pm
Operator : EmilyT
Sample : jb28370-1
Misc : ms43128,vd8383,4.4,,100,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 15 12:18:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.032	65	134490	500.00 ug/L	0.02
4) pentafluorobenzene	10.253	168	207443	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	320947	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	295331	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.092	152	172604	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.285	113	98046	48.40 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.80%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	123155	50.35 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.70%		
77) toluene-d8 (s)	12.878	98	384953	49.49 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.98%		
101) 4-bromofluorobenzene (s)	15.790	95	157432	50.21 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.42%		
Target Compounds					Qvalue
94) ethylbenzene	14.614	91	4204	0.40 ug/L	99
95) m,p-xylene	14.729	106	6143	1.48 ug/L	100

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

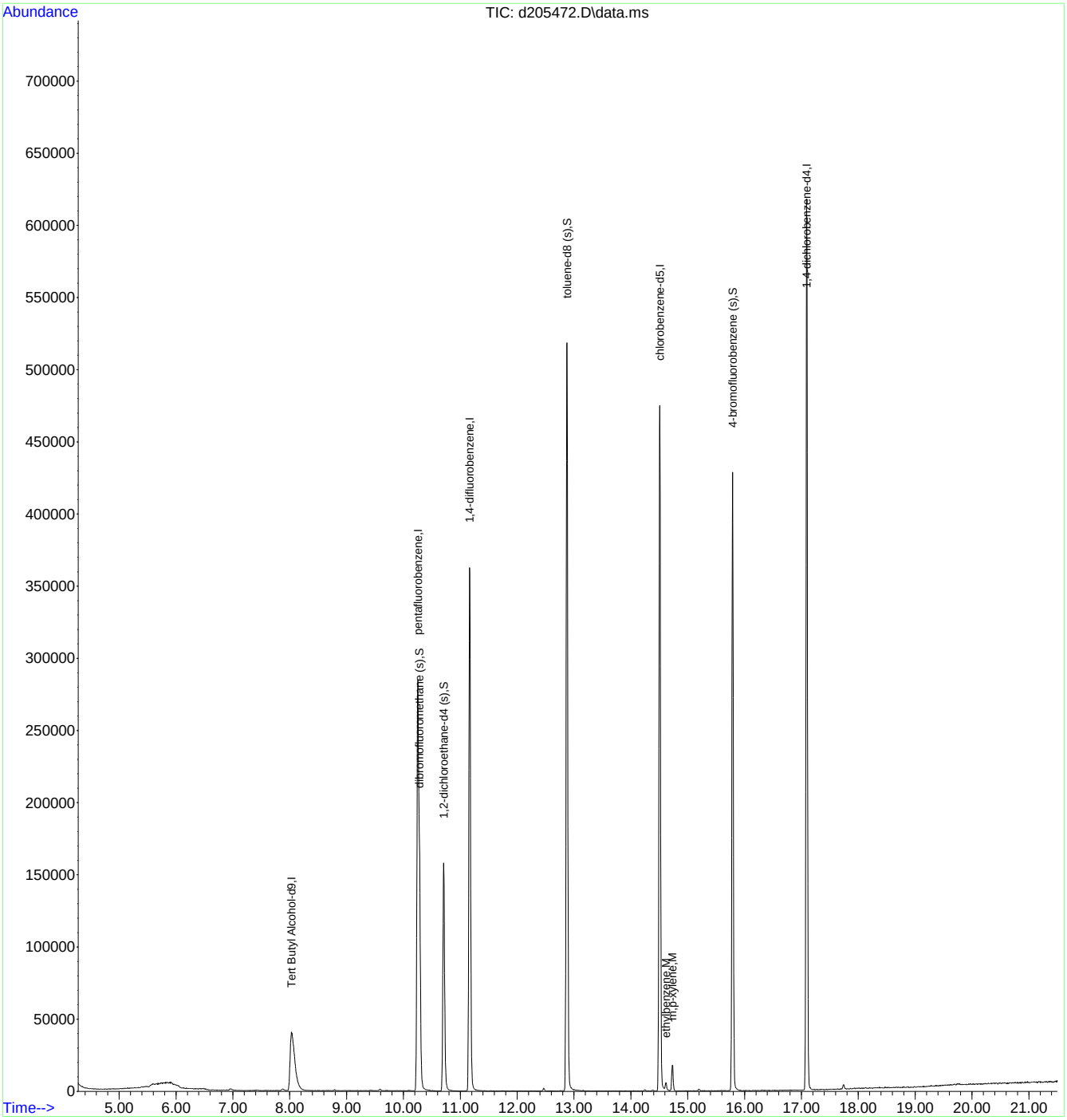
7.1.2

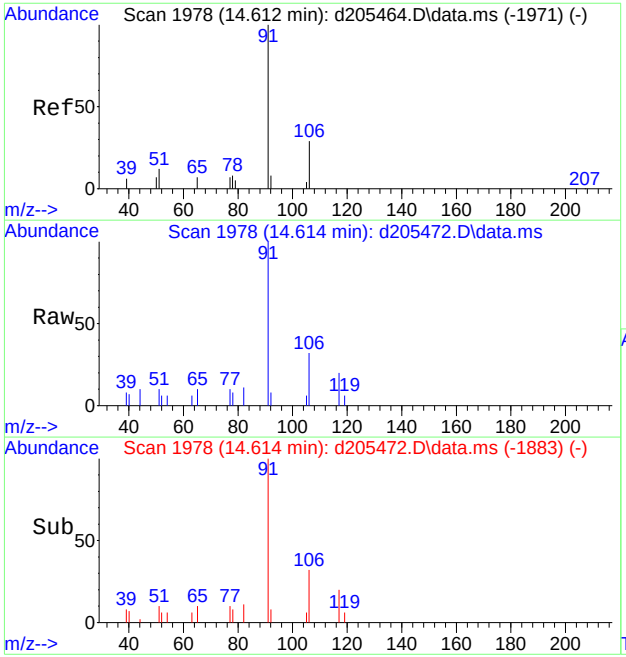
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205472.D
Acq On : 14 Feb 2013 5:25 pm
Operator : EmilyT
Sample : jb28370-1
Misc : ms43128,vd8383,4.4,,100,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 15 12:18:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

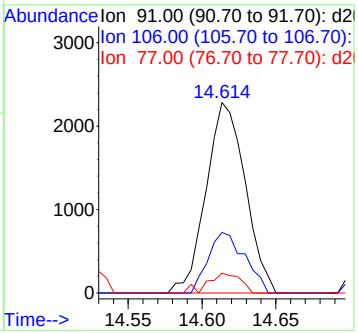


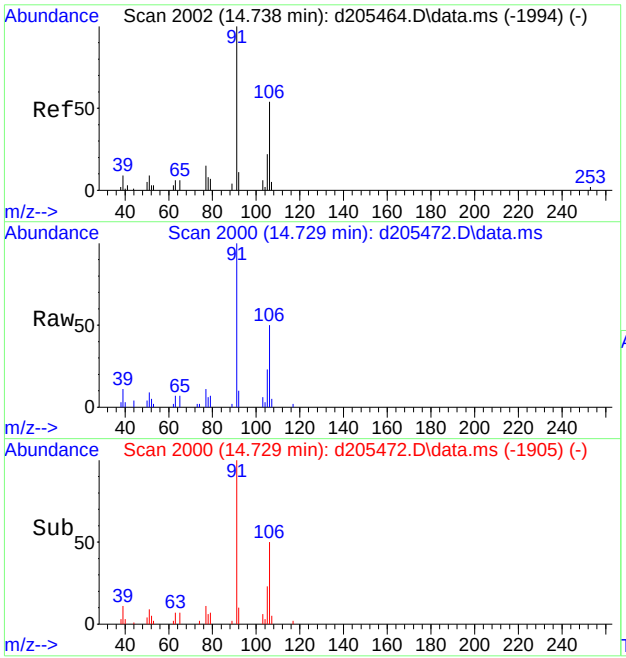


#94
ethylbenzene
Concen: 0.40 ug/L
RT: 14.614 min Scan# 1978
Delta R.T. -0.003 min
Lab File: d205472.D
Acq: 14 Feb 2013 5:25 pm

Tgt Ion: 91 Resp: 4204

Ion	Ratio	Lower	Upper
91	100		
106	31.7	1.6	61.6
77	10.4	0.0	38.8

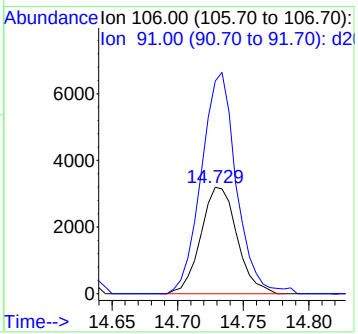




#95
m,p-xylene
Concen: 1.48 ug/L
RT: 14.729 min Scan# 2000
Delta R.T. -0.003 min
Lab File: d205472.D
Acq: 14 Feb 2013 5:25 pm

Tgt Ion:106 Resp: 6143

Ion	Ratio	Lower	Upper
106	100		
91	199.8	139.9	259.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205473.D
Acq On : 14 Feb 2013 5:54 pm
Operator : EmilyT
Sample : jb28370-2
Misc : ms43128,vd8383,5.7,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 15 12:18:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

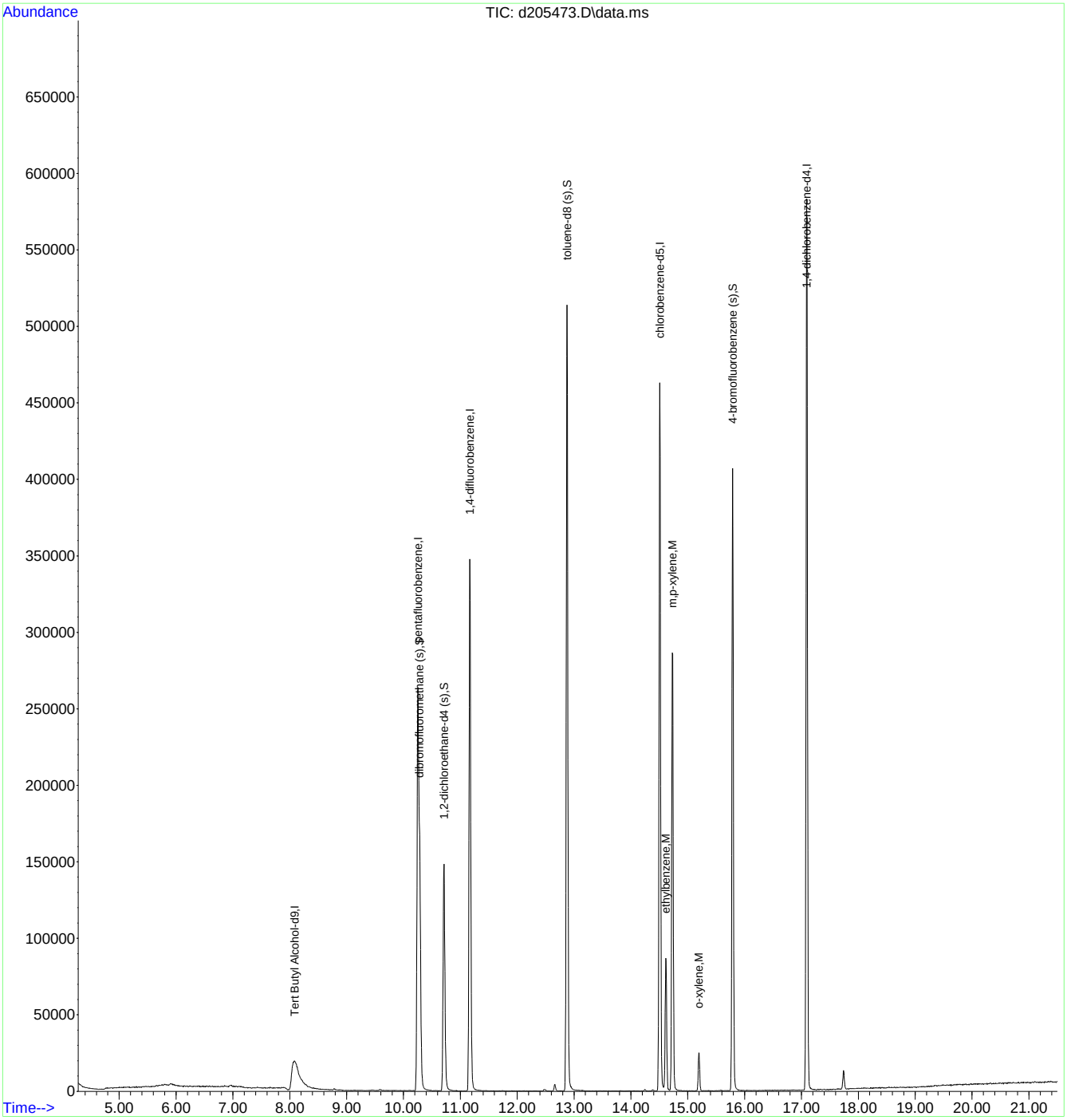
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.083	65	124611	500.00 ug/L	0.07
4) pentafluorobenzene	10.253	168	198835	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	308854	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	286404	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	166301	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	95720	49.30 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.60%		
47) 1,2-dichloroethane-d4 (s)	10.713	65	119555	50.99 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 101.98%		
77) toluene-d8 (s)	12.877	98	369105	49.31 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.62%		
101) 4-bromofluorobenzene (s)	15.789	95	149869	49.61 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.22%		
Target Compounds					Qvalue
94) ethylbenzene	14.613	91	69722	6.89 ug/L	98
95) m,p-xylene	14.728	106	93004	23.08 ug/L	98
96) o-xylene	15.198	106	7601	1.90 ug/L	91

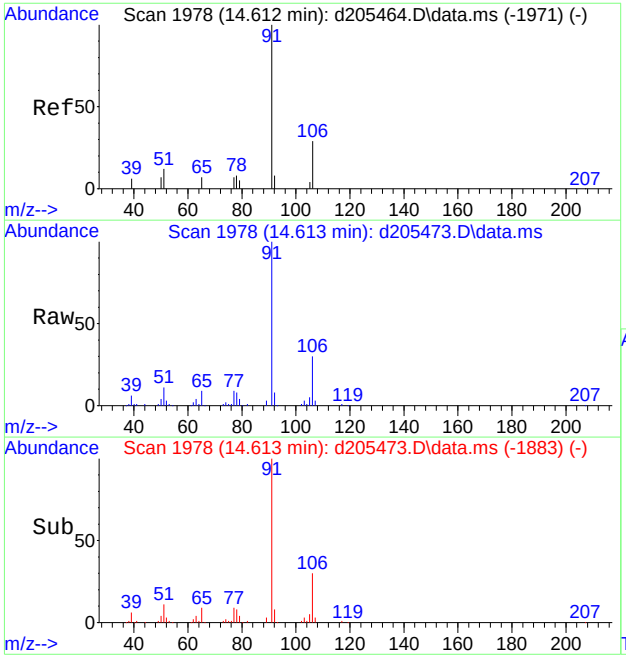
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205473.D
Acq On : 14 Feb 2013 5:54 pm
Operator : EmilyT
Sample : jb28370-2
Misc : ms43128,vd8383,5.7,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 15 12:18:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

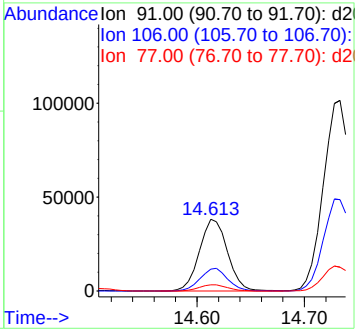


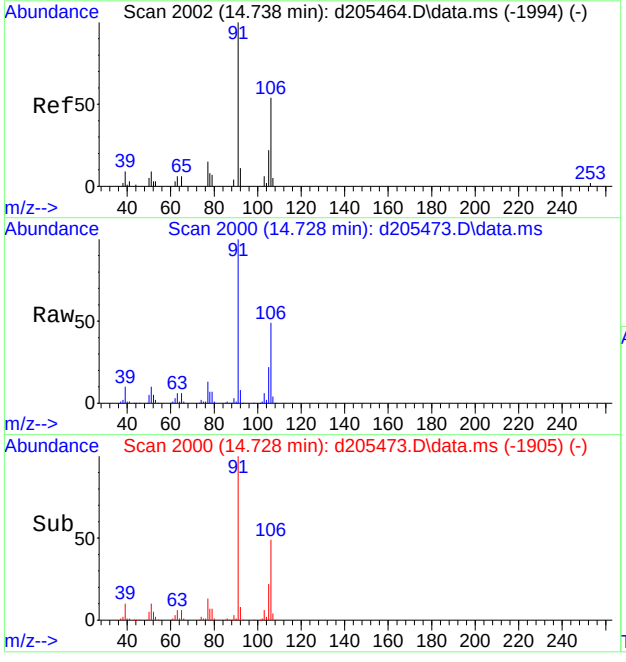


#94
ethylbenzene
Concen: 6.89 ug/L
RT: 14.613 min Scan# 1978
Delta R.T. -0.004 min
Lab File: d205473.D
Acq: 14 Feb 2013 5:54 pm

Tgt Ion: 91 Resp: 69722

Ion	Ratio	Lower	Upper
91	100		
106	30.5	1.6	61.6
77	8.6	0.0	38.8

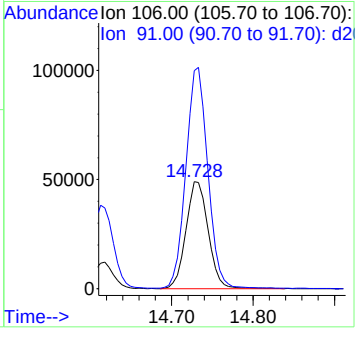


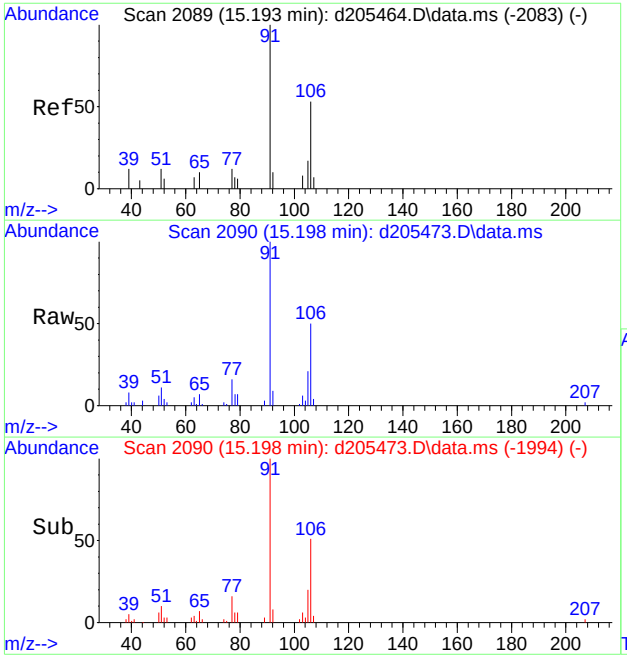


#95
m,p-xylene
Concen: 23.08 ug/L
RT: 14.728 min Scan# 2000
Delta R.T. -0.004 min
Lab File: d205473.D
Acq: 14 Feb 2013 5:54 pm

Tgt Ion:106 Resp: 93004

Ion	Ratio	Lower	Upper
106	100		
91	203.5	139.9	259.9

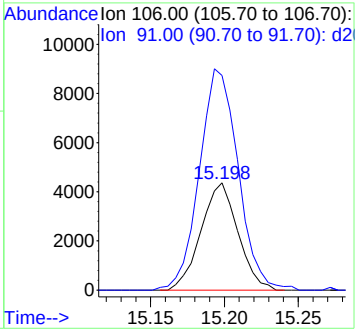




#96
o-xylene
Concen: 1.90 ug/L
RT: 15.198 min Scan# 2090
Delta R.T. 0.001 min
Lab File: d205473.D
Acq: 14 Feb 2013 5:54 pm

Tgt Ion:106 Resp: 7601

Ion	Ratio	Lower	Upper
106	100		
91	197.2	147.9	274.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205440.D
Acq On : 13 Feb 2013 5:17 pm
Operator : EmilyT
Sample : jb28370-3
Misc : ms43128,vd8381,5,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 13 17:58:41 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	8.035	65	136317	500.00 ug/L	0.02
4) pentafluorobenzene	10.252	168	217164	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	332499	50.00 ug/L	0.00
85) chlorobenzene-d5	14.507	117	305383	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	178362	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.283	113	99661	46.99 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.98%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	126005	49.21 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.42%		
77) toluene-d8 (s)	12.876	98	397254	49.30 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.60%		
101) 4-bromofluorobenzene (s)	15.788	95	162951	50.29 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.58%		

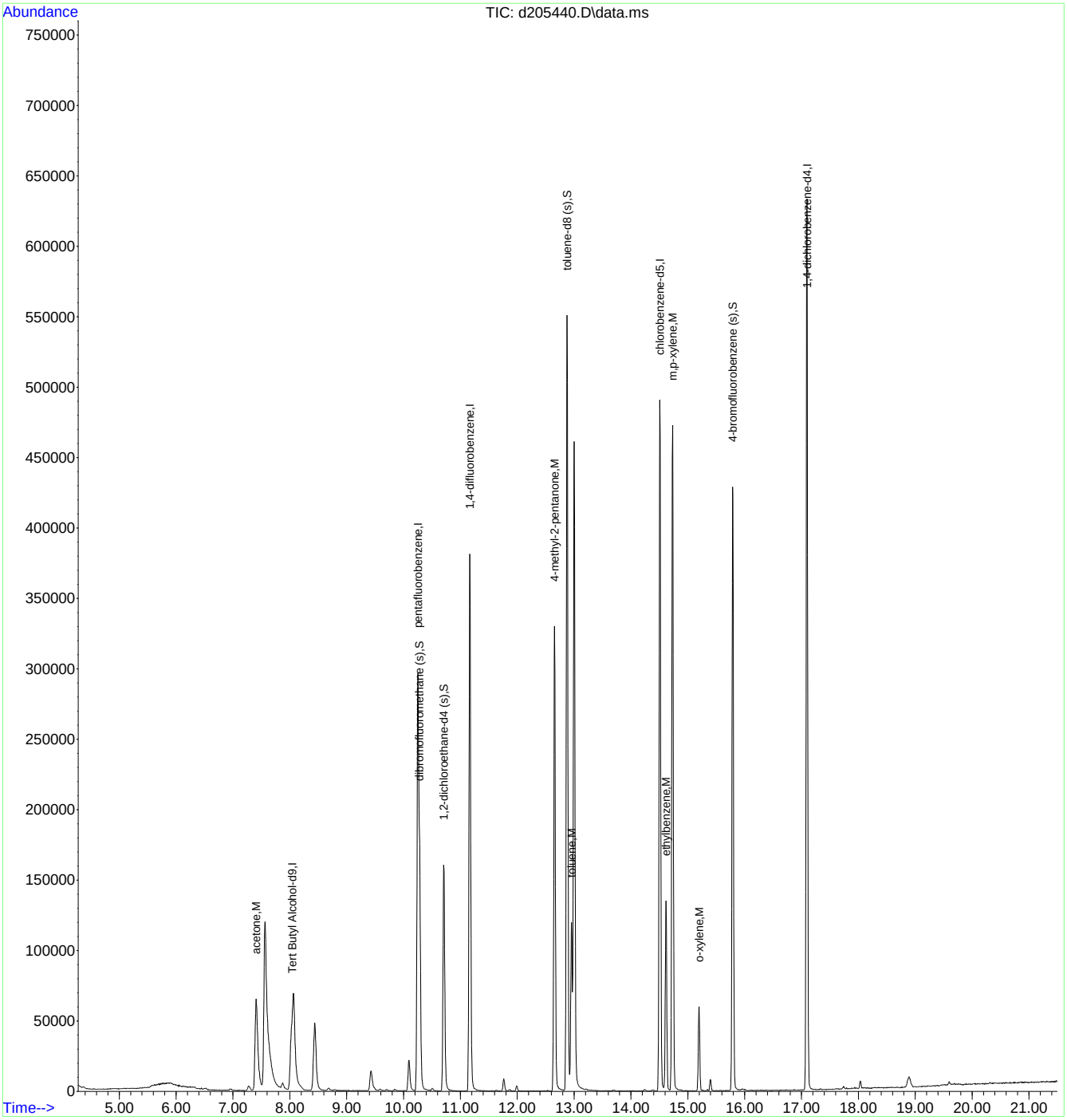
Target Compounds					Qvalue
20) acetone	7.408	58	48201	198.39 ug/L	88
78) 4-methyl-2-pentanone	12.657	58	94924	91.69 ug/L #	51
79) toluene	12.955	92	54059	9.84 ug/L	97
94) ethylbenzene	14.617	91	104717	9.71 ug/L	98
95) m,p-xylene	14.732	106	152234	35.42 ug/L	99
96) o-xylene	15.197	106	17612	4.13 ug/L	93

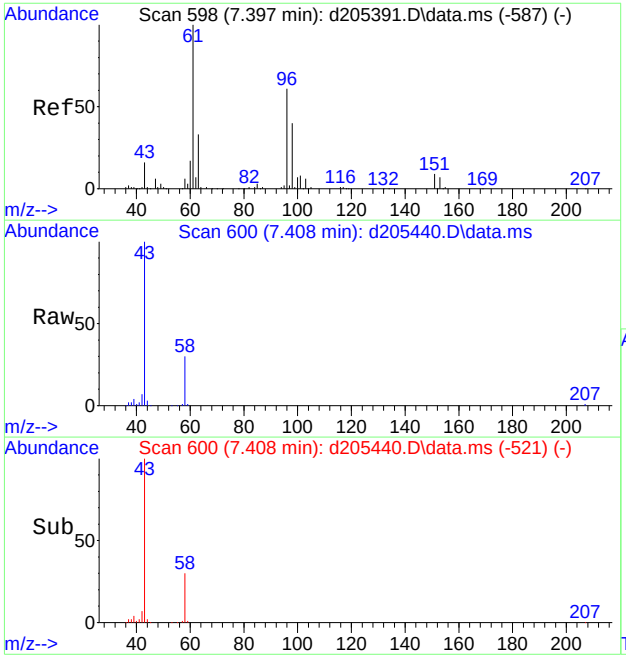
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205440.D
Acq On : 13 Feb 2013 5:17 pm
Operator : EmilyT
Sample : jb28370-3
Misc : ms43128,vd8381,5,,100,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 13 17:58:41 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

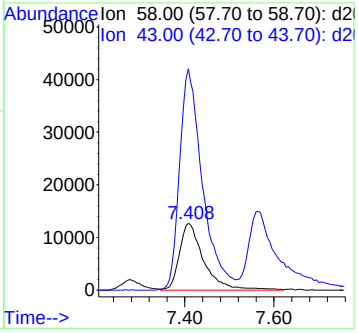


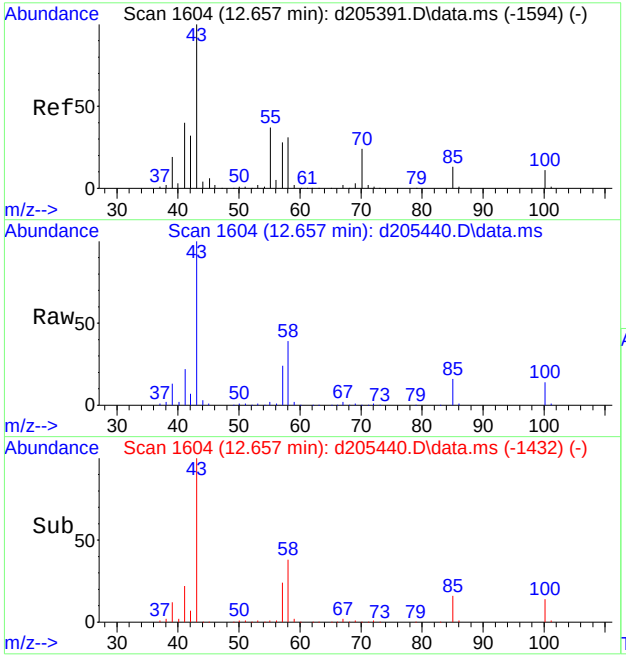


#20
acetone
Concen: 198.39 ug/L
RT: 7.408 min Scan# 600
Delta R.T. 0.011 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

Tgt Ion: 58 Resp: 48201

Ion	Ratio	Lower	Upper
58	100		
43	330.2	276.8	336.8

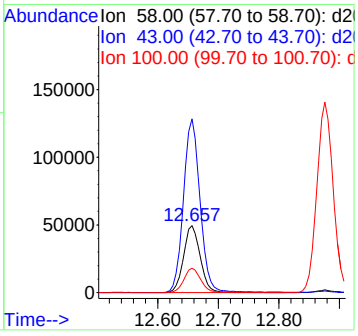


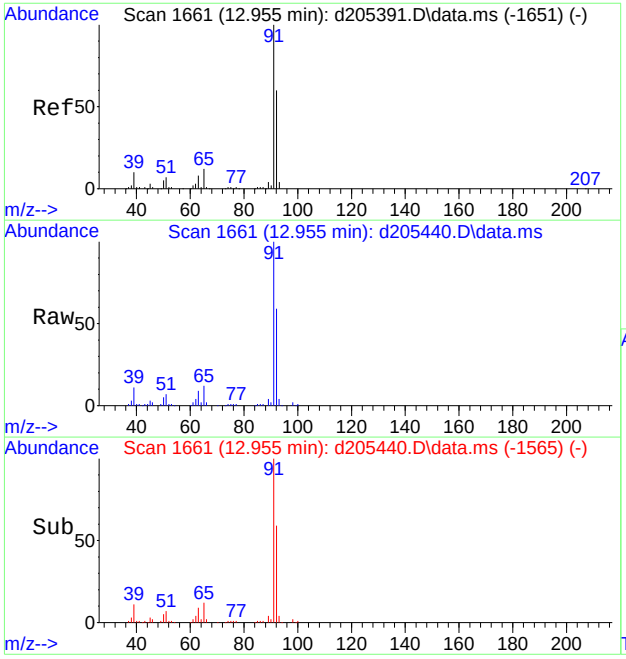


#78
4-methyl-2-pentanone
Concen: 91.69 ug/L
RT: 12.657 min Scan# 1604
Delta R.T. 0.000 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

Tgt Ion: 58 Resp: 94924

Ion	Ratio	Lower	Upper
58	100		
43	258.0	349.7	409.7#
100	36.4	5.7	65.7

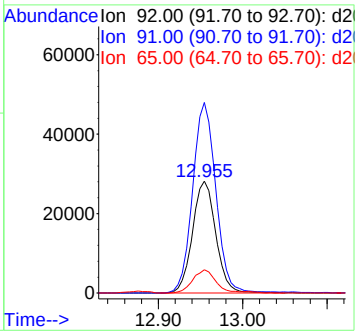


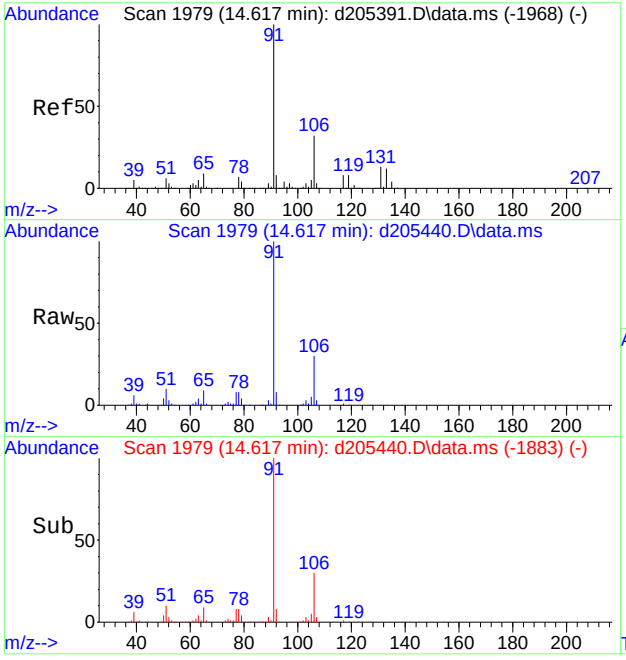


#79
toluene
Concen: 9.84 ug/L
RT: 12.955 min Scan# 1661
Delta R.T. 0.000 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

Tgt Ion: 92 Resp: 54059

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.0	196.0
65	20.9	0.0	49.8

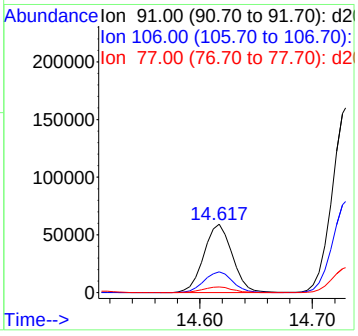




#94
ethylbenzene
Concen: 9.71 ug/L
RT: 14.617 min Scan# 1979
Delta R.T. 0.000 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

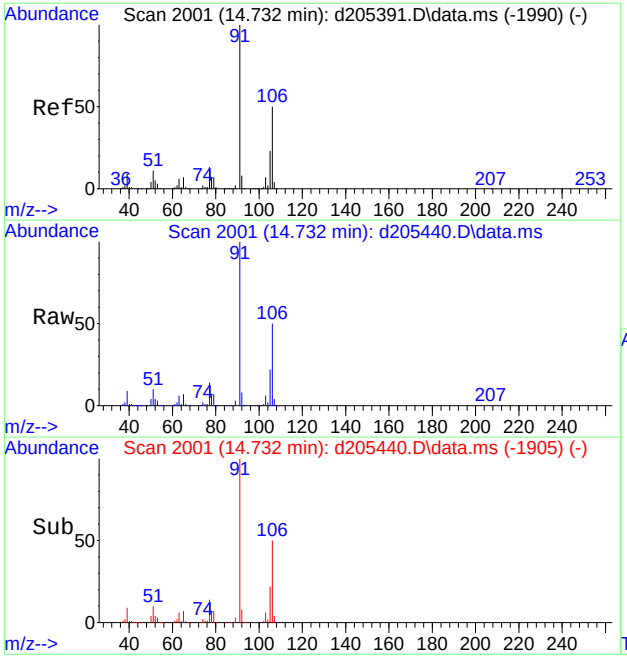
Tgt Ion: 91 Resp: 104717

Ion	Ratio	Lower	Upper
91	100		
106	30.5	1.6	61.6
77	8.2	0.0	38.8



7.1.4

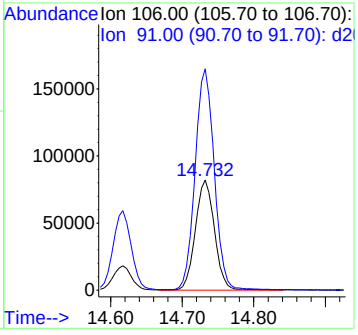
7

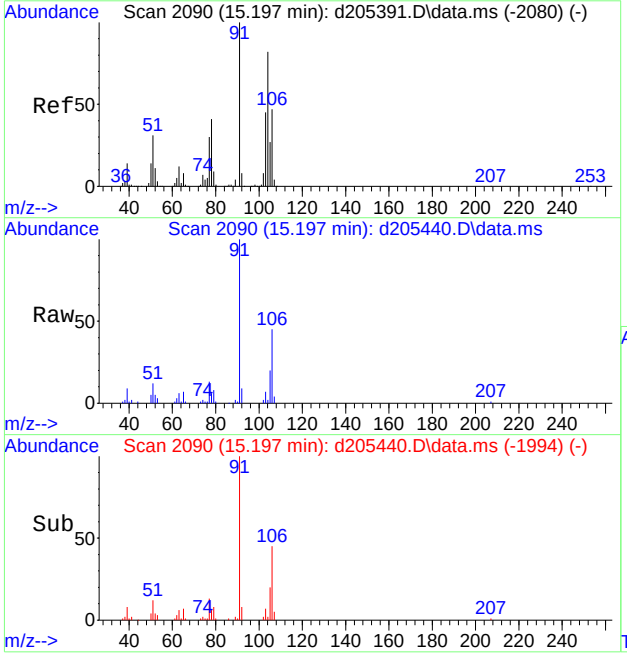


#95
m,p-xylene
Concen: 35.42 ug/L
RT: 14.732 min Scan# 2001
Delta R.T. 0.000 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

Tgt Ion:106 Resp: 152234

Ion	Ratio	Lower	Upper
106	100		
91	200.8	139.9	259.9

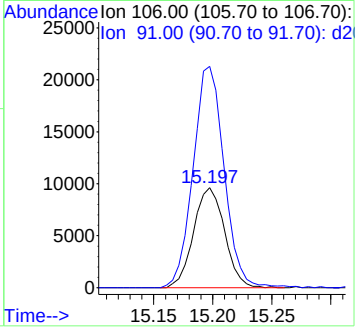




#96
o-xylene
Concen: 4.13 ug/L
RT: 15.197 min Scan# 2090
Delta R.T. 0.000 min
Lab File: d205440.D
Acq: 13 Feb 2013 5:17 pm

Tgt Ion:106 Resp: 17612

Ion	Ratio	Lower	Upper
106	100		
91	221.5	147.9	274.7



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181544.D
Acq On : 15 Feb 2013 9:08 pm
Operator : SCOTTM
Sample : JB28370-5,VTCL11+
Misc : MS43128,VI7333,5.0,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 18 11:01:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	42521	50.00	ug/L	-0.01
5) pentafluorobenzene	9.476	168	145860	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	236923	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	174094	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	73204	50.00	ug/L	-0.01

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.518	113	66744	46.58	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.16%			
47) 1,2-dichloroethane-d4...	9.937	65	94303	50.19	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.38%			
76) toluene-d8 (s)	12.044	98	267720	51.59	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 103.18%			
91) 4-bromofluorobenzene (s)	14.722	95	84664	57.71	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 115.42%			

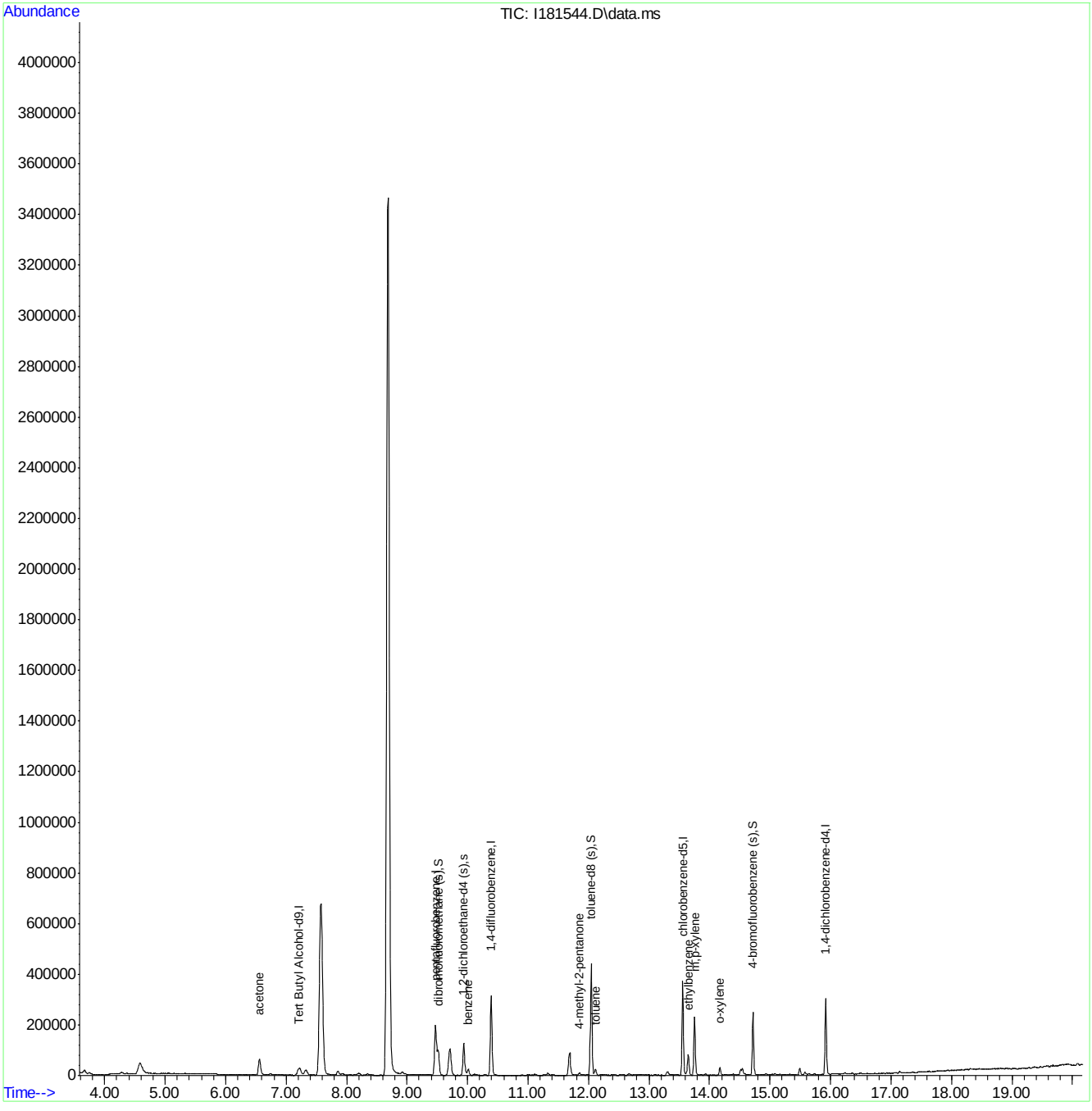
Target Compounds						Qvalue
17) acetone	6.558	58	11857	106.75	ug/L #	65
51) benzene	10.010	78	17413	2.53	ug/L	96
68) 4-methyl-2-pentanone	11.851	58	2119	4.45	ug/L #	53
70) toluene	12.118	91	15332	2.21	ug/L	96
85) ethylbenzene	13.650	91	4529	0.66	ug/L	92
86) m,p-xylene	13.755	106	59202	23.03	ug/L	95
87) o-xylene	14.173	106	7012	2.88	ug/L	81

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

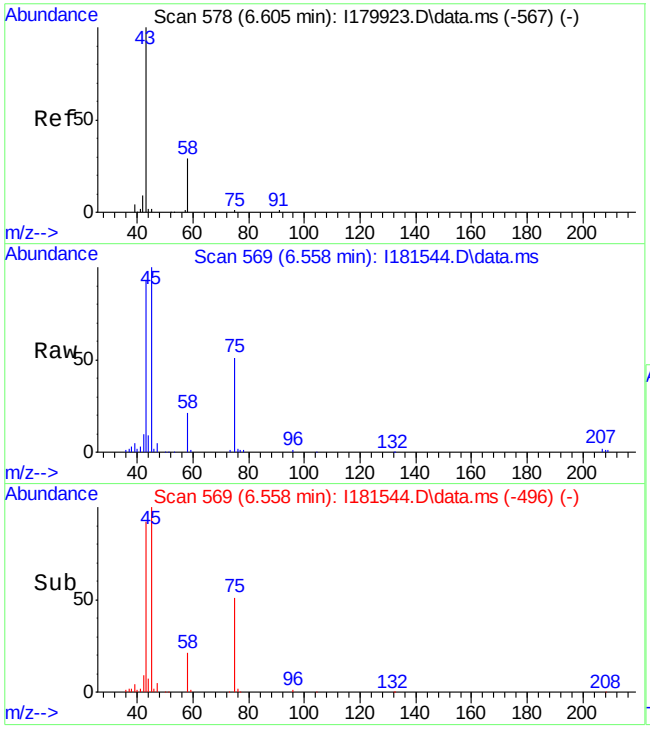
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181544.D
Acq On : 15 Feb 2013 9:08 pm
Operator : SCOTTM
Sample : JB28370-5,VTCL11+
Misc : MS43128,VI7333,5.0,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 18 11:01:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



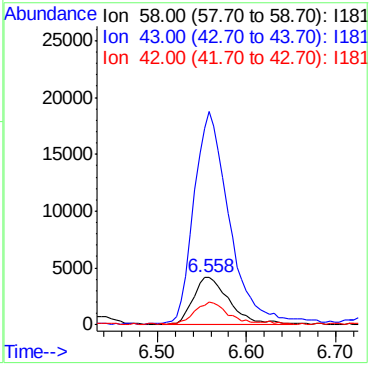
ACCUTEST LABORATORIES JB28370

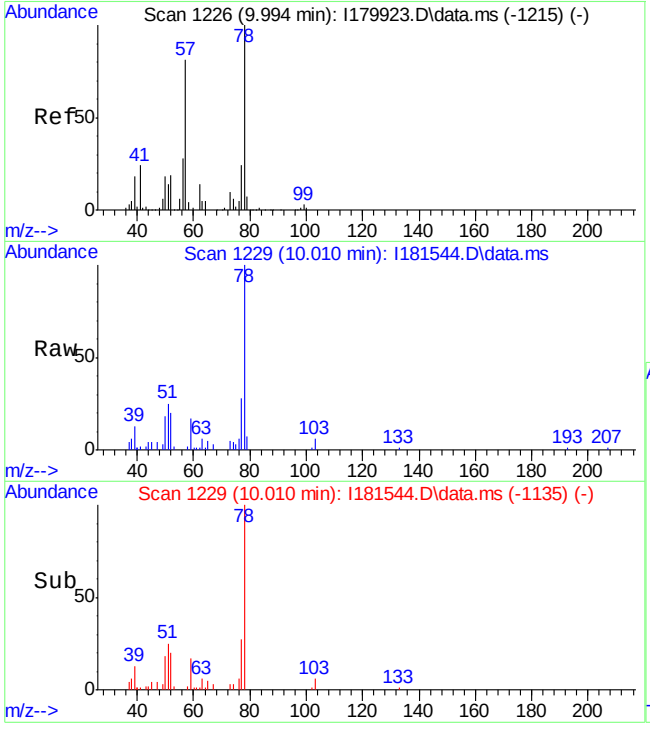


#17
acetone
Concen: 106.75 ug/L
RT: 6.558 min Scan# 569
Delta R.T. -0.016 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion: 58 Resp: 11857

Ion	Ratio	Lower	Upper
58	100		
43	445.7	333.8	393.8#
42	47.0	8.8	68.8

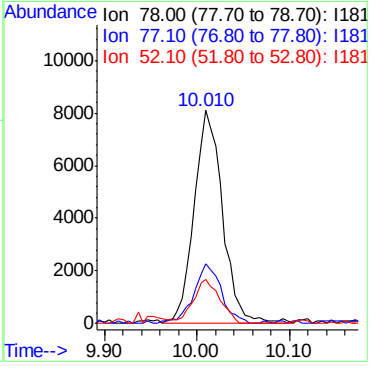


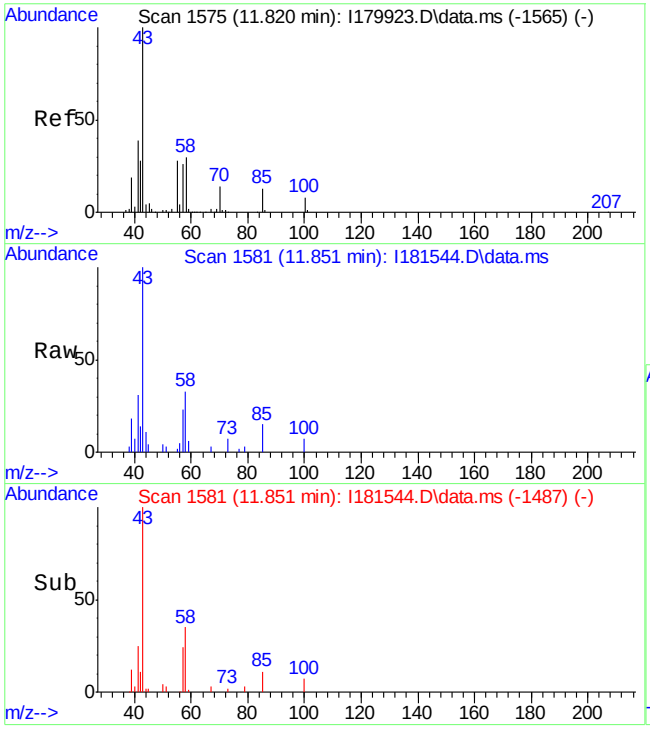


#51
benzene
Concen: 2.53 ug/L
RT: 10.010 min Scan# 1229
Delta R.T. -0.011 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion: 78 Resp: 17413

Ion	Ratio	Lower	Upper
78	100		
77	27.1	0.0	54.4
52	19.5	0.0	48.7

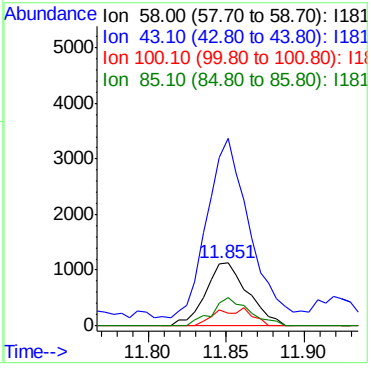


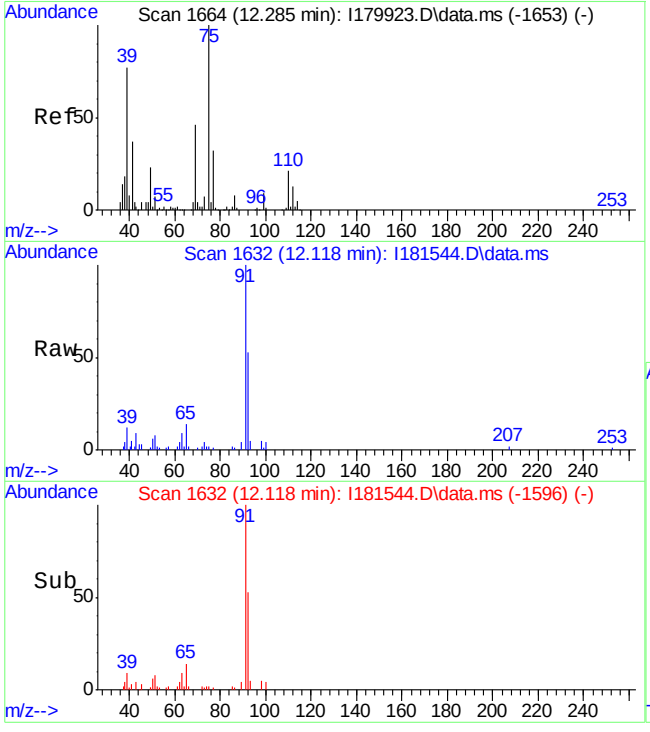


#68
4-methyl-2-pentanone
Concen: 4.45 ug/L
RT: 11.851 min Scan# 1581
Delta R.T. -0.011 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion: 58 Resp: 2119

Ion	Ratio	Lower	Upper
58	100		
43	285.9	377.3	437.3#
100	0.0	0.0	56.7
85	38.5	18.6	58.6

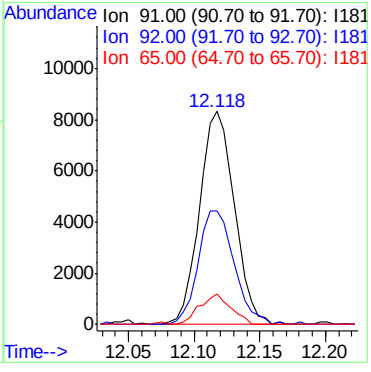


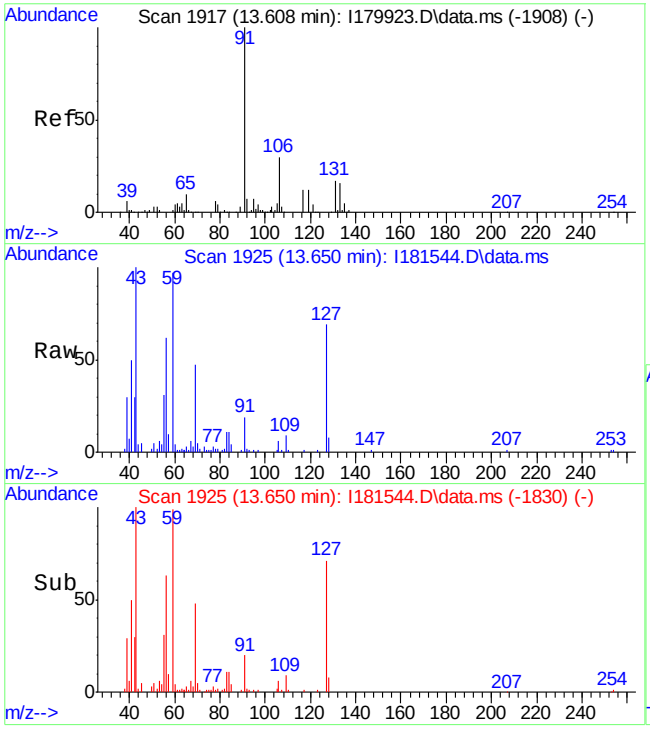


#70
toluene
Concen: 2.21 ug/L
RT: 12.118 min Scan# 1632
Delta R.T. -0.011 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion: 91 Resp: 15332

Ion	Ratio	Lower	Upper
91	100		
92	55.1	38.5	78.5
65	13.0	0.0	32.7

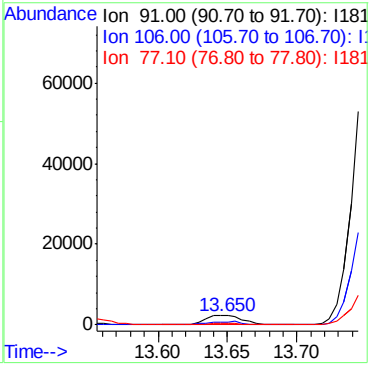


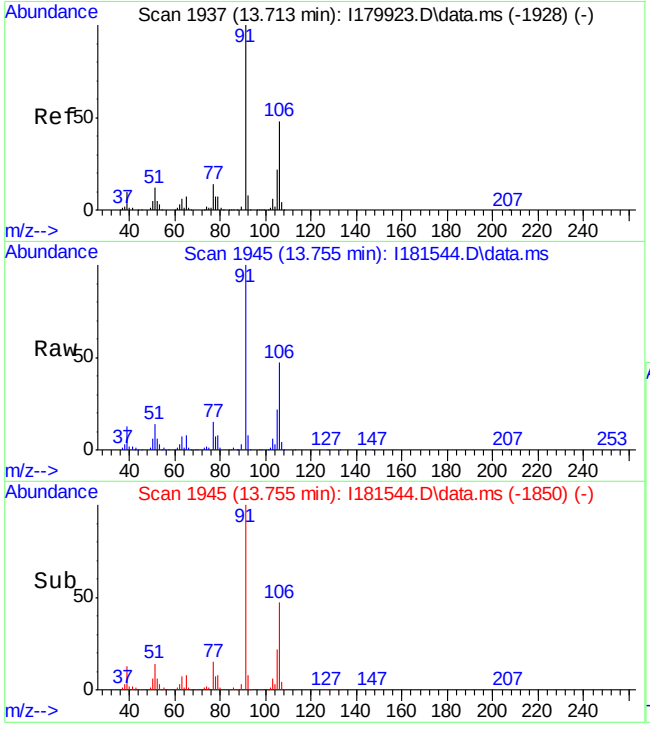


#85
ethylbenzene
Concen: 0.66 ug/L
RT: 13.650 min Scan# 1925
Delta R.T. -0.005 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion: 91 Resp: 4529

Ion	Ratio	Lower	Upper
91	100		
106	32.1	0.2	60.2
77	17.1	0.0	38.9

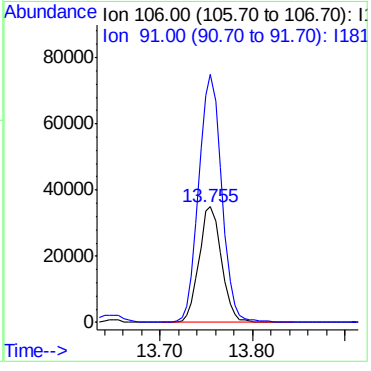


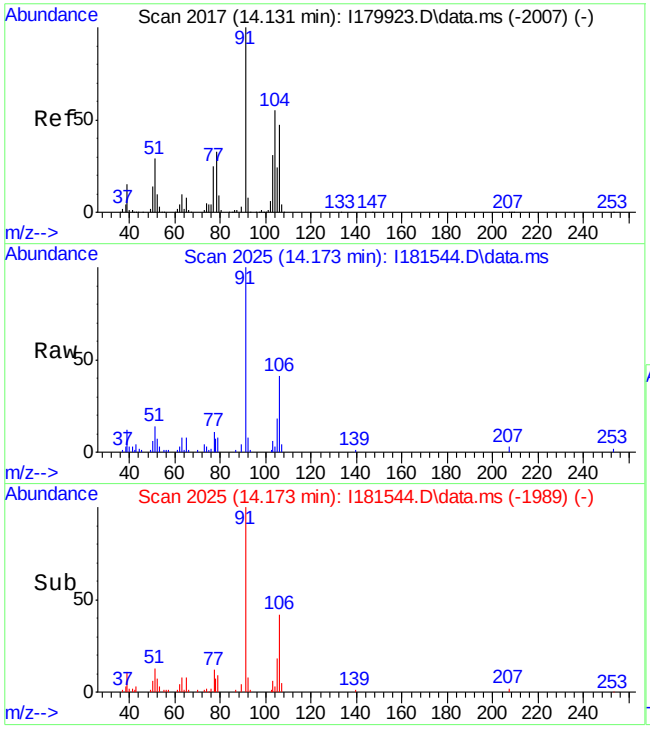


#86
m,p-xylene
Concen: 23.03 ug/L
RT: 13.755 min Scan# 1945
Delta R.T. -0.005 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion:106 Resp: 59202

Ion	Ratio	Lower	Upper
106	100		
91	214.3	144.3	268.1

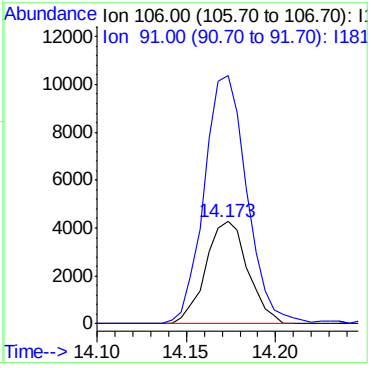




#87
o-xylene
Concen: 2.88 ug/L
RT: 14.173 min Scan# 2025
Delta R.T. -0.011 min
Lab File: I181544.D
Acq: 15 Feb 2013 9:08 pm

Tgt Ion:106 Resp: 7012

Ion	Ratio	Lower	Upper
106	100		
91	242.9	149.5	277.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205425.D
Acq On : 13 Feb 2013 9:58 am
Operator : EmilyT
Sample : mb
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 10:59:18 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	8.078	65	134861	500.00 ug/L	0.06
4) pentafluorobenzene	10.253	168	208875	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	323359	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	305157	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	181058	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.284	113	98414	48.25 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.50%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	124328	50.48 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 100.96%		
77) toluene-d8 (s)	12.877	98	385100	49.14 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.28%		
101) 4-bromofluorobenzene (s)	15.789	95	164458	50.00 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.00%		

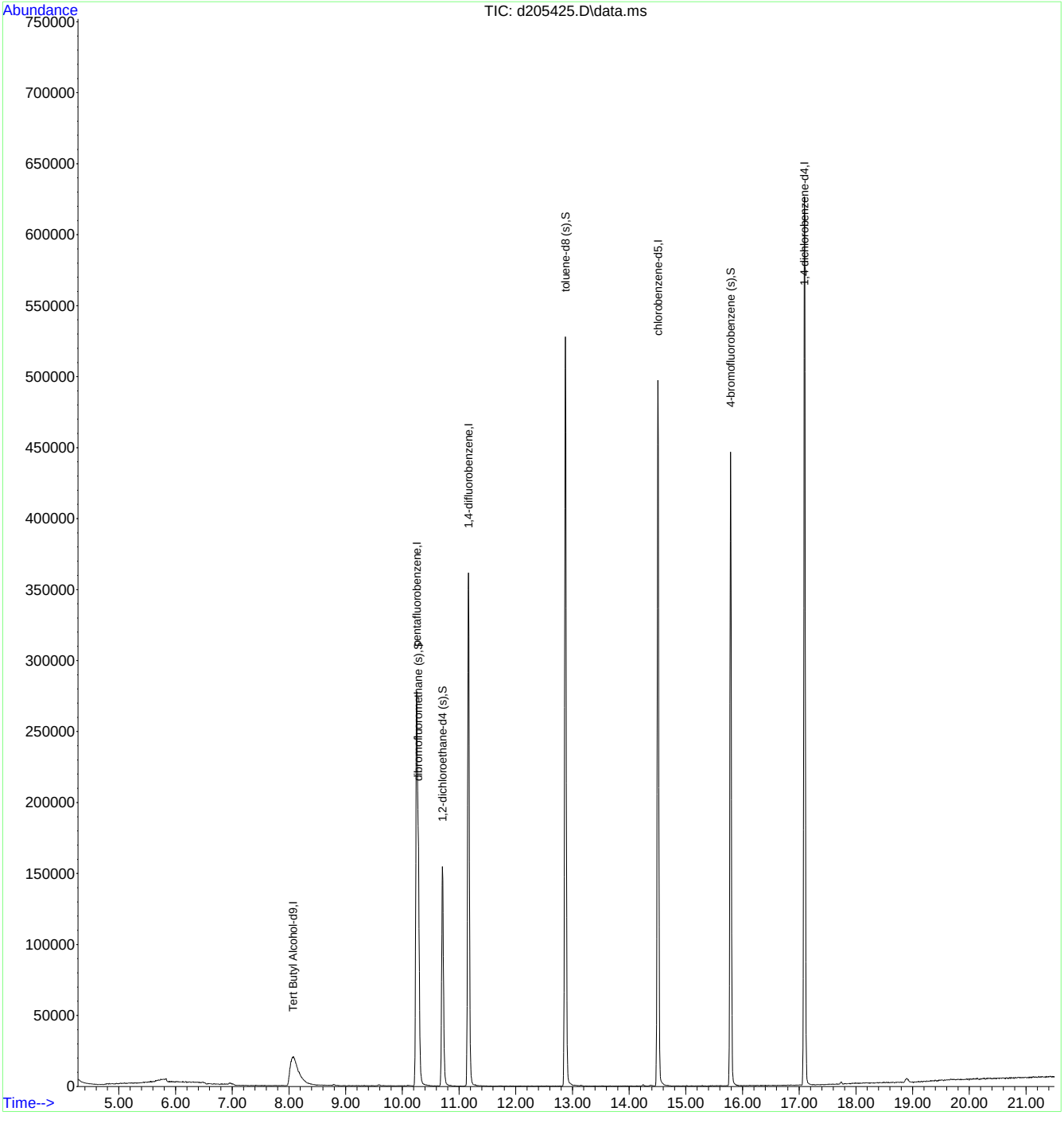
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205425.D
Acq On : 13 Feb 2013 9:58 am
Operator : EmilyT
Sample : mb
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 10:59:18 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



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205459.D
Acq On : 14 Feb 2013 10:39 am
Operator : EmilyT
Sample : mb
Misc : ms43191,vd8383,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 11:18:47 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	8.047	65	109775	500.00 ug/L	0.03
4) pentafluorobenzene	10.248	168	209320	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	322600	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	297038	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	173066	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.279	113	96392	47.16 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.32%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	123093	49.87 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.74%		
77) toluene-d8 (s)	12.872	98	383969	49.11 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.22%		
101) 4-bromofluorobenzene (s)	15.789	95	157041	49.95 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 99.90%		

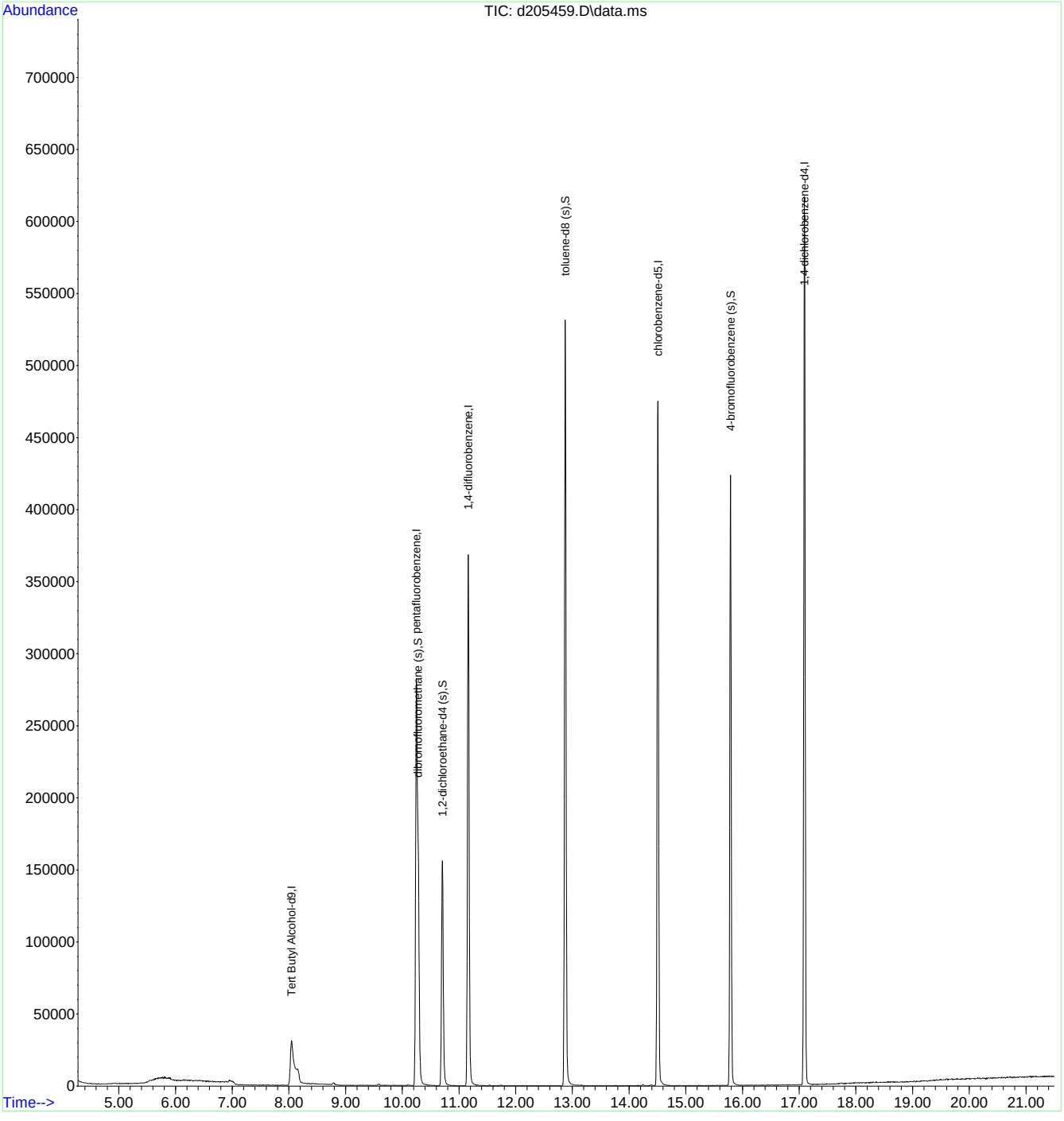
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205459.D
Acq On : 14 Feb 2013 10:39 am
Operator : EmilyT
Sample : mb
Misc : ms43191,vd8383,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 11:18:47 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



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181530.D
Acq On : 15 Feb 2013 2:18 pm
Operator : SCOTTM
Sample : MB1
Misc : MS43239,VI7333,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 18 09:05:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	79609	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	198322	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.392	114	295771	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	227968	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	103684	50.00	ug/L	-0.01

System Monitoring Compounds

43) dibromofluoromethane (s)	9.518	113	89839	46.11	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.22%			
47) 1,2-dichloroethane-d4...	9.937	65	113041	48.20	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.40%			
76) toluene-d8 (s)	12.044	98	311436	45.83	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 91.66%			
91) 4-bromofluorobenzene (s)	14.722	95	124386	59.86	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 119.72%			

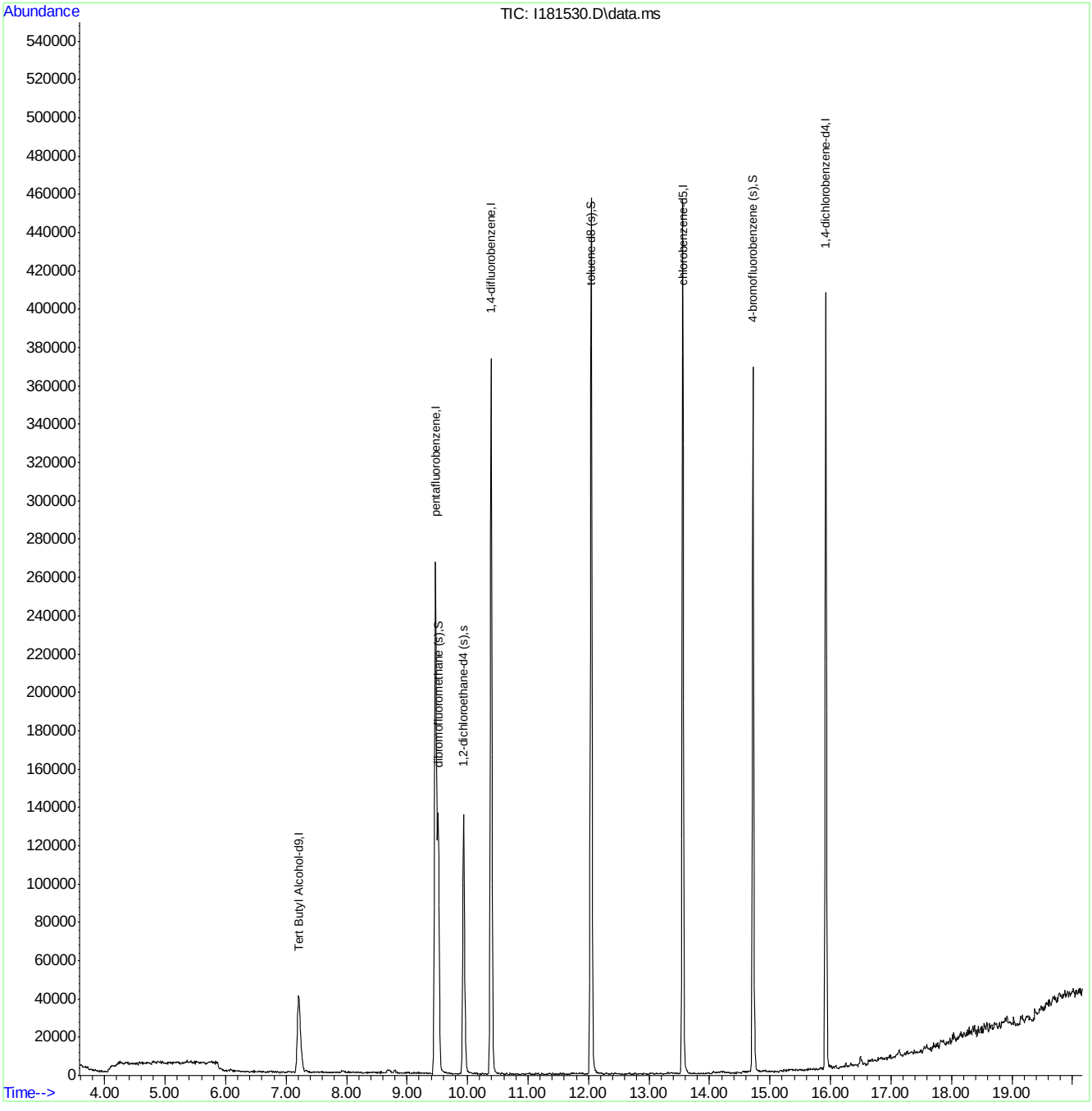
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181530.D
Acq On : 15 Feb 2013 2:18 pm
Operator : SCOTTM
Sample : MB1
Misc : MS43239,VI7333,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 18 09:05:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



MI7266.M Mon Feb 18 09:05:37 2013 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131344.D
Acq On : 25 Feb 2013 11:01 am
Operator : ROBERTS
Sample : MB
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 25 15:13:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	46504	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	112857	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	162750	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	126245	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	57183	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	9.91	113	46493	53.39	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.78%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	45807	52.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 104.08%			
76) toluene-d8 (s)	12.34	98	150631	53.25	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.50%			
100) 4-bromofluorobenzene (s)	14.96	95	49775	51.86	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 103.72%			

Target Compounds Qvalue

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

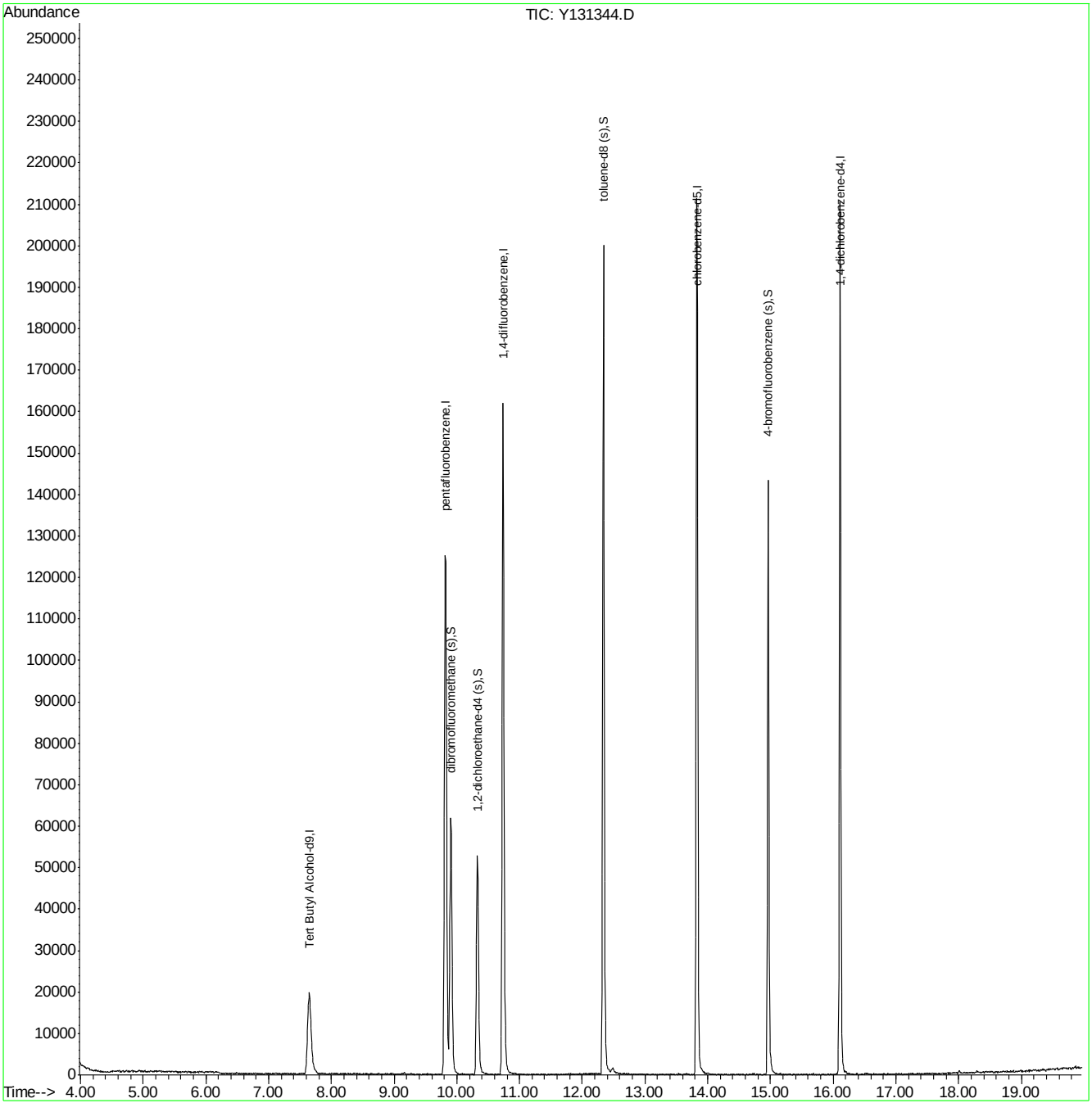
7.2.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131344.D
Acq On : 25 Feb 2013 11:01 am
Operator : ROBERTS
Sample : MB
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 25 15:13:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



MY5578.M Mon Feb 25 15:13:32 2013 RPT1 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/14/13 17:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205426.D
Acq On : 13 Feb 2013 10:27 am
Operator : EmilyT
Sample : bs
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 16:03:02 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	8.031	65	136257	500.00 ug/L	0.02
4) pentafluorobenzene	10.253	168	209457	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	325572	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	301840	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	186294	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	100031	48.90 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.80%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	121377	49.14 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.28%		
77) toluene-d8 (s)	12.877	98	394869	50.05 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 100.10%		
101) 4-bromofluorobenzene (s)	15.789	95	163649	48.36 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.72%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	31427	1212.91 ug/L	96
3) tertiary butyl alcohol	8.135	59	79752	274.68 ug/L	85
6) chlorodifluoromethane	4.570	51	121530	53.07 ug/L	98
7) dichlorodifluoromethane	4.554	85	133386	47.54 ug/L	98
8) chloromethane	4.915	50	166196	53.20 ug/L	99
9) vinyl chloride	5.197	62	164311	51.84 ug/L	99
10) bromomethane	5.866	94	101506	57.20 ug/L	99
11) chloroethane	6.054	64	98751	55.43 ug/L	99
13) trichlorofluoromethane	6.567	101	176304	52.42 ug/L	99
15) ethyl ether	6.959	74	72192	48.38 ug/L	97
16) acrolein	7.184	56	284425	476.26 ug/L	99
18) 2-chloropropane	7.163	43	226358	51.56 ug/L	99
19) 1,1-dichloroethene	7.393	96	111016	52.39 ug/L	96
20) acetone	7.398	58	13828	59.01 ug/L	96
21) allyl chloride	7.900	41	248084	49.00 ug/L	99
22) acetonitrile	7.827	40	77335m	670.67 ug/L	
24) iodomethane	7.659	142	198839	52.99 ug/L	99
26) carbon disulfide	7.795	76	385893	52.92 ug/L	99
27) methylene chloride	8.072	84	127264	48.84 ug/L	96
28) 1-chloropropane	8.130	42	222992	50.74 ug/L	96
29) methyl acetate	7.869	43	103709	47.05 ug/L	100
30) methyl tert butyl ether	8.438	73	742954	104.67 ug/L	99
31) trans-1,2-dichloroethene	8.459	96	115072	52.18 ug/L	98
32) di-isopropyl ether	9.029	45	400394	53.53 ug/L	99
33) ethyl tert-butyl ether	9.489	59	389066	52.10 ug/L	99
34) 2-butanone	9.693	72	15809	52.89 ug/L #	99
35) 1,1-dichloroethane	9.008	63	217648	55.22 ug/L	98
36) chloroprene	9.134	53	168857	53.92 ug/L	98
37) acrylonitrile	8.370	53	274356	282.23 ug/L	99
38) vinyl acetate	8.998	86	26090	55.15 ug/L	98
39) ethyl acetate	9.725	45	17046	47.36 ug/L	96
40) 2,2-dichloropropane	9.766	77	145003	49.94 ug/L	100
41) cis-1,2-dichloroethene	9.730	96	122886	52.23 ug/L	99
42) propionitrile	9.772	54	201245	525.39 ug/L	97
43) bromochloromethane	10.033	128	59273	52.34 ug/L	95
44) tetrahydrofuran	10.096	72	18254	50.76 ug/L	96
45) chloroform	10.090	83	193165	53.27 ug/L	100
48) freon 113	7.377	151	70729	47.63 ug/L	96
49) methacrylonitrile	9.970	41	81227	49.44 ug/L	96
50) t-butyl formate	10.164	59	128195	54.42 ug/L	98
51) 1,1,1-trichloroethane	10.378	97	172627	54.33 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205426.D
Acq On : 13 Feb 2013 10:27 am
Operator : EmilyT
Sample : bs
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 16:03:02 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)
52) tert-amyl methyl ether	10.864	73	376538	50.96 ug/L	99
54) cyclohexane	10.483	84	184198	54.62 ug/L	99
55) tert amyl alcohol	10.650	55	27445	257.73 ug/L	94
56) 2,2,4-trimethylpentane	10.864	57	373729	46.11 ug/L	99
57) epichlorohydrin	12.427	57	72340	261.82 ug/L	99
58) n-butyl alcohol	11.251	56	208776	2493.74 ug/L	99
59) carbon tetrachloride	10.592	117	152611	54.47 ug/L	99
60) 1,1-dichloropropene	10.551	75	153813	53.11 ug/L	98
61) hexane	8.794	57	116168	43.59 ug/L	99
62) benzene	10.812	78	456280	52.89 ug/L	99
63) heptane	11.016	57	67480	45.13 ug/L	98
64) isopropyl acetate	10.723	43	237841	50.44 ug/L	100
65) 1,2-dichloroethane	10.801	62	157998	54.51 ug/L	99
67) trichloroethene	11.518	95	112816	53.11 ug/L	97
68) 2-nitropropane	12.312	43	327327	51.47 ug/L	100
69) 2-chloroethyl vinyl ether	12.312	63	430707	266.11 ug/L	99
70) methyl methacrylate	11.784	100	34207	53.67 ug/L	98
71) tert-amyl ethyl ether	11.711	87	182426	55.91 ug/L	100
72) 1,2-dichloropropane	11.784	63	124410	53.61 ug/L	100
73) methylcyclohexane	11.784	83	183348	51.03 ug/L	98
74) dibromomethane	11.926	93	74824	54.85 ug/L	99
75) bromodichloromethane	12.056	83	154786	54.91 ug/L	97
76) cis-1,3-dichloropropene	12.542	75	184097	50.37 ug/L	98
78) 4-methyl-2-pentanone	12.657	58	52234	51.53 ug/L	98
79) toluene	12.955	92	276818	51.48 ug/L	99
80) 3-methyl-1-butanol	12.642	70	79801	1018.93 ug/L	98
81) trans-1,3-dichloropropene	13.128	75	177839	51.55 ug/L	96
82) ethyl methacrylate	13.144	69	163502	50.67 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	90071	52.96 ug/L	98
84) 2-hexanone	13.562	58	47566	51.48 ug/L	100
86) tetrachloroethene	13.588	166	123062	49.81 ug/L	99
87) 1,3-dichloropropane	13.562	76	187710	51.85 ug/L	99
88) butyl acetate	13.651	56	84776	53.17 ug/L	99
89) 3,3-dimethyl-1-butanol	13.729	57	169002	590.80 ug/L	99
90) dibromochloromethane	13.844	129	116867	50.82 ug/L	98
91) 1,2-dibromoethane	14.022	107	111845	52.49 ug/L	98
92) chlorobenzene	14.545	112	314777	51.34 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	119767	52.79 ug/L	98
94) ethylbenzene	14.618	91	539806	50.64 ug/L	100
95) m,p-xylene	14.733	106	421305	99.19 ug/L	100
96) o-xylene	15.198	106	214377	50.86 ug/L	99
97) styrene	15.198	104	364753	51.39 ug/L	99
98) bromoform	15.470	173	93951	52.77 ug/L	99
100) isopropylbenzene	15.585	105	552569	49.64 ug/L	99
102) bromobenzene	16.014	156	151397	50.05 ug/L	96
103) cyclohexanone	15.742	55	43775	507.45 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.878	83	156336	45.55 ug/L	97
105) trans-1,4-dichloro-2-b...	15.930	53	44974	48.02 ug/L	99
106) 1,2,3-trichloropropane	15.967	110	45777	46.98 ug/L	98
107) n-propylbenzene	16.040	91	671980	50.66 ug/L	99
109) 2-chlorotoluene	16.197	126	139208	50.36 ug/L	98
110) 4-chlorotoluene	16.301	91	427496	49.37 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	492794	47.63 ug/L	99
112) tert-butylbenzene	16.605	119	417884	48.12 ug/L	99
113) pentachloroethane	16.673	167	95418	49.27 ug/L	98
114) 1,2,4-trimethylbenzene	16.646	105	510500	48.54 ug/L	100
115) sec-butylbenzene	16.845	105	630140	49.26 ug/L	100
116) 1,3-dichlorobenzene	17.033	146	290938	48.77 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205426.D
Acq On : 13 Feb 2013 10:27 am
Operator : EmilyT
Sample : bs
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 16:03:02 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)
117) p-isopropyltoluene	16.976	119	540112	50.98 ug/L	100
118) 1,4-dichlorobenzene	17.122	146	297908	47.84 ug/L	99
119) Benzyl Chloride	17.242	91	259047	45.49 ug/L	100
121) 1,2-dichlorobenzene	17.556	146	285929	47.16 ug/L	100
122) n-butylbenzene	17.431	92	278447	47.85 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.398	75	30293	45.47 ug/L	97
125) 1,3,5-trichlorobenzene	18.638	180	210989	45.63 ug/L	100
126) 1,2,4-trichlorobenzene	19.365	180	186039	49.64 ug/L	99
127) hexachlorobutadiene	19.517	225	97641	44.73 ug/L	98
128) naphthalene	19.689	128	385915	46.82 ug/L	100
129) 1,2,3-trichlorobenzene	19.966	180	140973	46.73 ug/L	99
130) hexachloroethane	17.865	119	98727	49.23 ug/L	99

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

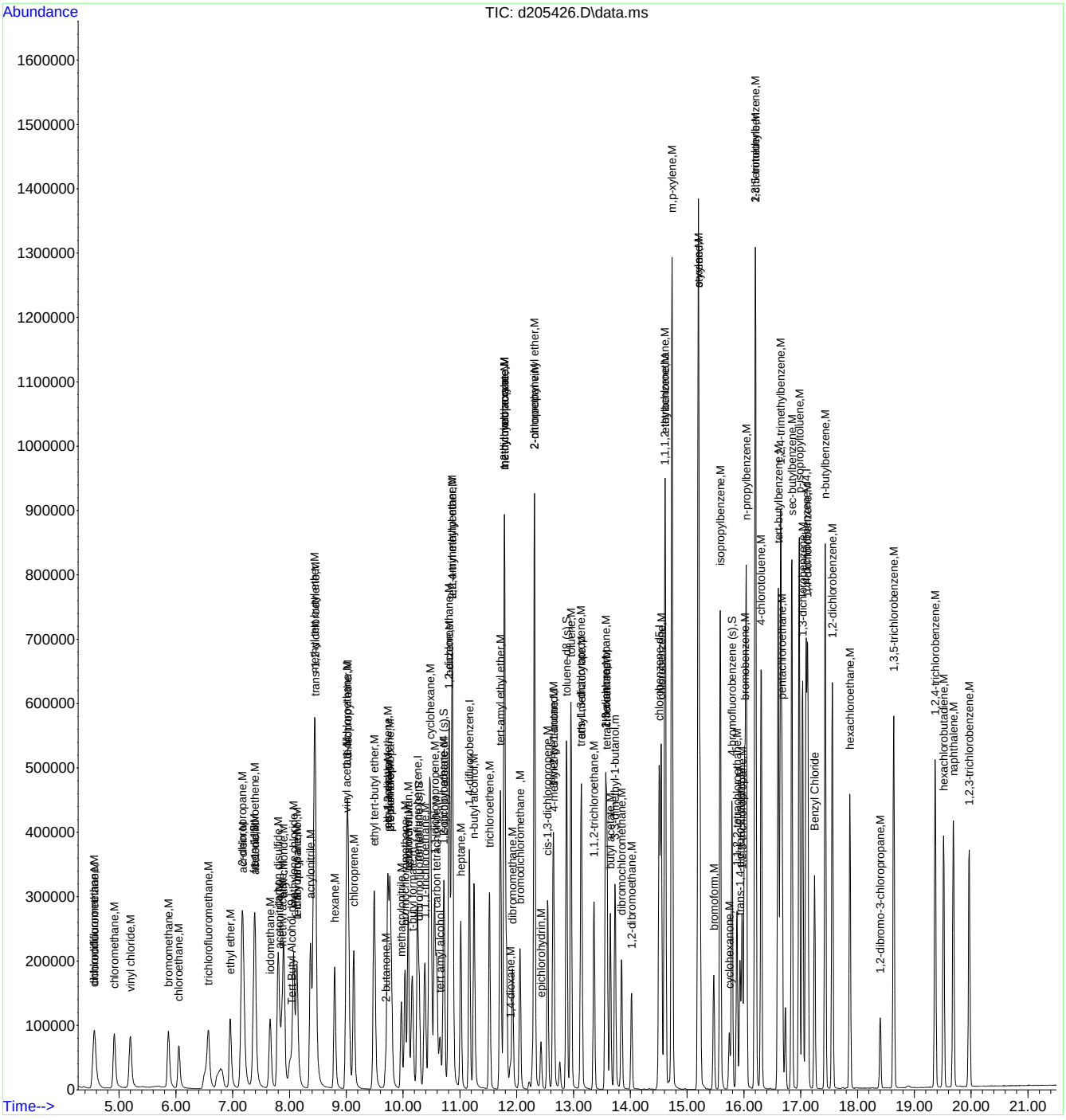
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205426.D
Acq On : 13 Feb 2013 10:27 am
Operator : EmilyT
Sample : bs
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 16:03:02 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



Manual Integration Approval Summary

Sample Number:	VD8381-BS	**Method:**	SW846 8260B
Lab FileID:	D205426.D	**Analyst approved:**	02/13/13 17:04 Ying Li
Injection Time:	02/13/13 10:27	**Supervisor approved:**	02/14/13 17:35 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Overlapping peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205426.D
Acq On    : 13 Feb 2013  10:27 am
Operator  : EmilyT
Sample    : bs
Misc      : ms42756,vd8381,5,,100,5,1
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Feb 13 15:59:34 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
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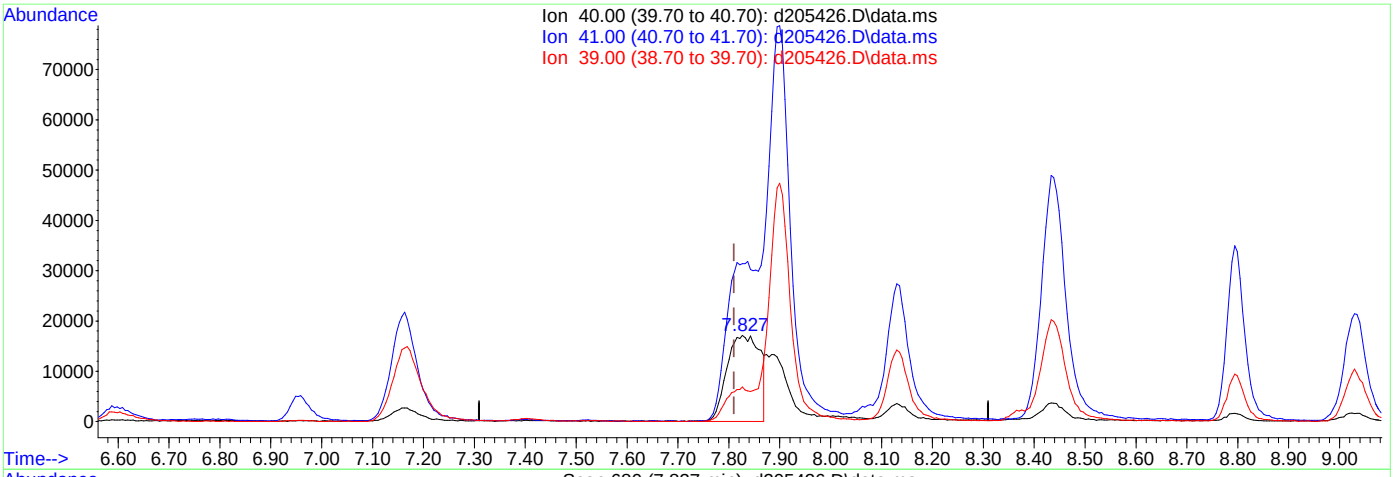
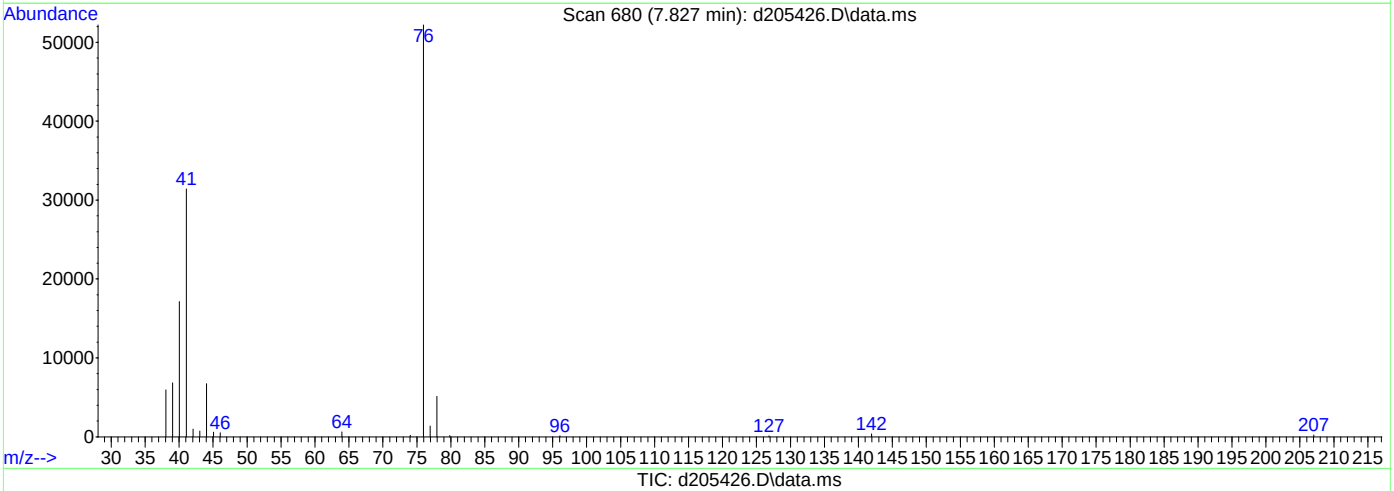




TIC: d205426.D\data.ms

(22) acetonitrile (M)

7.827min (+0.017) 670.67ug/L m

response 77335

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	183.33
39.00	37.10	40.02
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/15/13 01:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205460.D
Acq On : 14 Feb 2013 11:17 am
Operator : EmilyT
Sample : bs
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 15:36:31 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	8.021	65	142826	500.00 ug/L	0.00
4) pentafluorobenzene	10.248	168	209006	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.163	114	320599	50.00 ug/L	0.00
85) chlorobenzene-d5	14.509	117	292798	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	177176	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.279	113	97810	47.92 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.84%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	120799	49.02 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.04%		
77) toluene-d8 (s)	12.878	98	385864	49.66 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.32%		
101) 4-bromofluorobenzene (s)	15.790	95	157054	48.80 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.60%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.884	88	36329	1337.61 ug/L	91
3) tertiary butyl alcohol	8.141	59	81717	268.51 ug/L #	55
6) chlorodifluoromethane	4.570	51	123975	54.26 ug/L	100
7) dichlorodifluoromethane	4.555	85	135073	48.25 ug/L	98
8) chloromethane	4.910	50	162401	52.10 ug/L	99
9) vinyl chloride	5.192	62	164223	51.93 ug/L	99
10) bromomethane	5.862	94	98237	55.47 ug/L	94
11) chloroethane	6.045	64	94999	53.44 ug/L	97
13) trichlorofluoromethane	6.567	101	179275	53.42 ug/L	100
15) ethyl ether	6.954	74	70980	47.67 ug/L	97
16) acrolein	7.179	56	306240	513.90 ug/L	100
18) 2-chloropropane	7.158	43	228623	52.19 ug/L	100
19) 1,1-dichloroethene	7.388	96	109529	51.80 ug/L	95
20) acetone	7.399	58	12333	52.74 ug/L	100
21) allyl chloride	7.895	41	259413	51.35 ug/L	100
22) acetonitrile	7.817	40	81418m	707.60 ug/L	
24) iodomethane	7.655	142	192413	51.38 ug/L	99
26) carbon disulfide	7.791	76	385134	52.93 ug/L	99
27) methylene chloride	8.068	84	122702	47.19 ug/L	94
28) 1-chloropropane	8.131	42	217727	49.65 ug/L	97
29) methyl acetate	7.869	43	100010	45.47 ug/L	100
30) methyl tert butyl ether	8.439	73	722300	101.98 ug/L	99
31) trans-1,2-dichloroethene	8.455	96	113667	51.65 ug/L	96
32) di-isopropyl ether	9.030	45	396814	53.16 ug/L	99
33) ethyl tert-butyl ether	9.490	59	381566	51.21 ug/L	97
34) 2-butanone	9.688	72	15233	51.07 ug/L #	95
35) 1,1-dichloroethane	9.009	63	216280	54.99 ug/L	99
36) chloroprene	9.129	53	169829	54.35 ug/L	99
37) acrylonitrile	8.366	53	268896	277.21 ug/L	98
38) vinyl acetate	8.993	86	25652	54.34 ug/L	99
39) ethyl acetate	9.725	45	16835	46.87 ug/L	90
40) 2,2-dichloropropane	9.767	77	174504	60.23 ug/L	99
41) cis-1,2-dichloroethene	9.730	96	120451	51.31 ug/L	98
42) propionitrile	9.767	54	197891	517.75 ug/L	99
43) bromochloromethane	10.034	128	58259	51.56 ug/L	95
44) tetrahydrofuran	10.091	72	17983	50.12 ug/L	96
45) chloroform	10.086	83	192098	53.09 ug/L	99
48) freon 113	7.372	151	73133	49.36 ug/L	97
49) methacrylonitrile	9.966	41	79115	48.26 ug/L	98
50) t-butyl formate	10.159	59	126368	53.76 ug/L	98
51) 1,1,1-trichloroethane	10.379	97	173445	54.71 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205460.D
Acq On : 14 Feb 2013 11:17 am
Operator : EmilyT
Sample : bs
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 15:36:31 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)
52) tert-amyl methyl ether	10.860	73	366121	49.65 ug/L	98
54) cyclohexane	10.478	84	187920	56.58 ug/L	98
55) tert amyl alcohol	10.645	55	29155	278.03 ug/L	96
56) 2,2,4-trimethylpentane	10.860	57	439044	55.01 ug/L	99
57) epichlorohydrin	12.423	57	71230	261.81 ug/L	99
58) n-butyl alcohol	11.246	56	210990	2559.28 ug/L	100
59) carbon tetrachloride	10.588	117	154265	55.91 ug/L	98
60) 1,1-dichloropropene	10.551	75	155013	54.35 ug/L	98
61) hexane	8.794	57	140910	53.69 ug/L	98
62) benzene	10.813	78	454317	53.48 ug/L	99
63) heptane	11.011	57	88903	60.38 ug/L	99
64) isopropyl acetate	10.718	43	233333	50.25 ug/L	99
65) 1,2-dichloroethane	10.797	62	155217	54.38 ug/L	99
67) trichloroethene	11.518	95	112080	53.58 ug/L	98
68) 2-nitropropane	12.308	43	318782	50.90 ug/L	100
69) 2-chloroethyl vinyl ether	12.308	63	414384	260.00 ug/L	99
70) methyl methacrylate	11.780	100	33159	52.83 ug/L	94
71) tert-amyl ethyl ether	11.712	87	177649	55.29 ug/L	99
72) 1,2-dichloropropane	11.780	63	122341	53.54 ug/L	99
73) methylcyclohexane	11.785	83	192915	54.52 ug/L	99
74) dibromomethane	11.926	93	72386	53.88 ug/L	97
75) bromodichloromethane	12.057	83	151014	54.40 ug/L	99
76) cis-1,3-dichloropropene	12.543	75	183734	51.05 ug/L	98
78) 4-methyl-2-pentanone	12.653	58	50654	50.74 ug/L	96
79) toluene	12.951	92	273185	51.60 ug/L	97
80) 3-methyl-1-butanol	12.637	70	78628	1019.52 ug/L	99
81) trans-1,3-dichloropropene	13.129	75	177216	52.16 ug/L	100
82) ethyl methacrylate	13.144	69	156225	49.17 ug/L	99
83) 1,1,2-trichloroethane	13.359	83	85534	51.07 ug/L	100
84) 2-hexanone	13.562	58	46249	50.83 ug/L	99
86) tetrachloroethene	13.583	166	118816	49.57 ug/L	97
87) 1,3-dichloropropane	13.562	76	180447	51.38 ug/L	99
88) butyl acetate	13.646	56	83096	53.72 ug/L	97
89) 3,3-dimethyl-1-butanol	13.730	57	171099	616.61 ug/L	98
90) dibromochloromethane	13.845	129	112123	50.26 ug/L	99
91) 1,2-dibromoethane	14.017	107	106378	51.46 ug/L	98
92) chlorobenzene	14.540	112	302285	50.83 ug/L	98
93) 1,1,1,2-tetrachloroethane	14.603	131	113706	51.67 ug/L	97
94) ethylbenzene	14.613	91	527842	51.05 ug/L	99
95) m,p-xylene	14.733	106	404039	98.06 ug/L	99
96) o-xylene	15.194	106	204479	50.01 ug/L	96
97) styrene	15.199	104	348325	50.59 ug/L	98
98) bromoform	15.465	173	87411	50.61 ug/L	98
100) isopropylbenzene	15.580	105	540804	51.09 ug/L	98
102) bromobenzene	16.009	156	142238	49.44 ug/L	95
103) cyclohexanone	15.743	55	43788	533.72 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.878	83	147261	45.11 ug/L	99
105) trans-1,4-dichloro-2-b...	15.931	53	45469	51.05 ug/L	99
106) 1,2,3-trichloropropane	15.967	110	43322	46.75 ug/L	88
107) n-propylbenzene	16.041	91	655608	51.97 ug/L	99
109) 2-chlorotoluene	16.192	126	132342	50.34 ug/L	98
110) 4-chlorotoluene	16.302	91	409754	49.76 ug/L	99
111) 1,3,5-trimethylbenzene	16.208	105	475408	48.31 ug/L	99
112) tert-butylbenzene	16.600	119	406329	49.20 ug/L	98
113) pentachloroethane	16.673	167	93256	50.64 ug/L	100
114) 1,2,4-trimethylbenzene	16.647	105	488422	48.83 ug/L	98
115) sec-butylbenzene	16.840	105	616294	50.66 ug/L	98
116) 1,3-dichlorobenzene	17.034	146	275998	48.64 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205460.D
Acq On : 14 Feb 2013 11:17 am
Operator : EmilyT
Sample : bs
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 15:36:31 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)
117) p-isopropyltoluene	16.971	119	529945	52.59 ug/L	99
118) 1,4-dichlorobenzene	17.123	146	283611	47.89 ug/L	100
119) Benzyl Chloride	17.243	91	341064	62.98 ug/L	99
121) 1,2-dichlorobenzene	17.557	146	271618	47.11 ug/L	99
122) n-butylbenzene	17.431	92	280014	50.59 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.398	75	29298	46.24 ug/L	97
125) 1,3,5-trichlorobenzene	18.639	180	217147	49.38 ug/L	97
126) 1,2,4-trichlorobenzene	19.366	180	192378	53.97 ug/L	99
127) hexachlorobutadiene	19.517	225	106130	51.12 ug/L	98
128) naphthalene	19.690	128	393160	50.15 ug/L	100
129) 1,2,3-trichlorobenzene	19.967	180	145669	50.78 ug/L	98
130) hexachloroethane	17.865	119	95985	50.32 ug/L	98

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

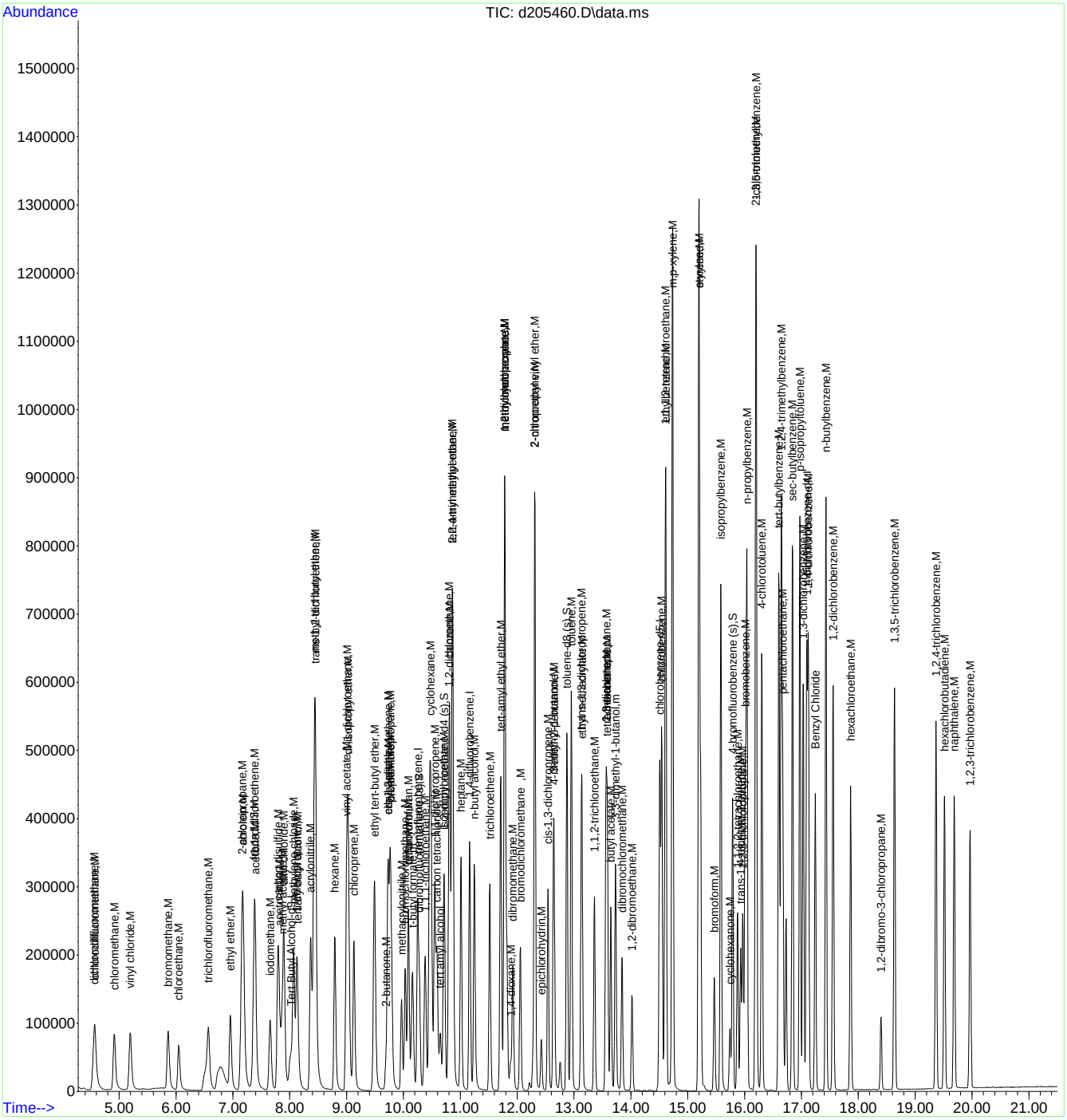
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205460.D
Acq On : 14 Feb 2013 11:17 am
Operator : EmilyT
Sample : bs
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 15:36:31 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



Manual Integration Approval Summary

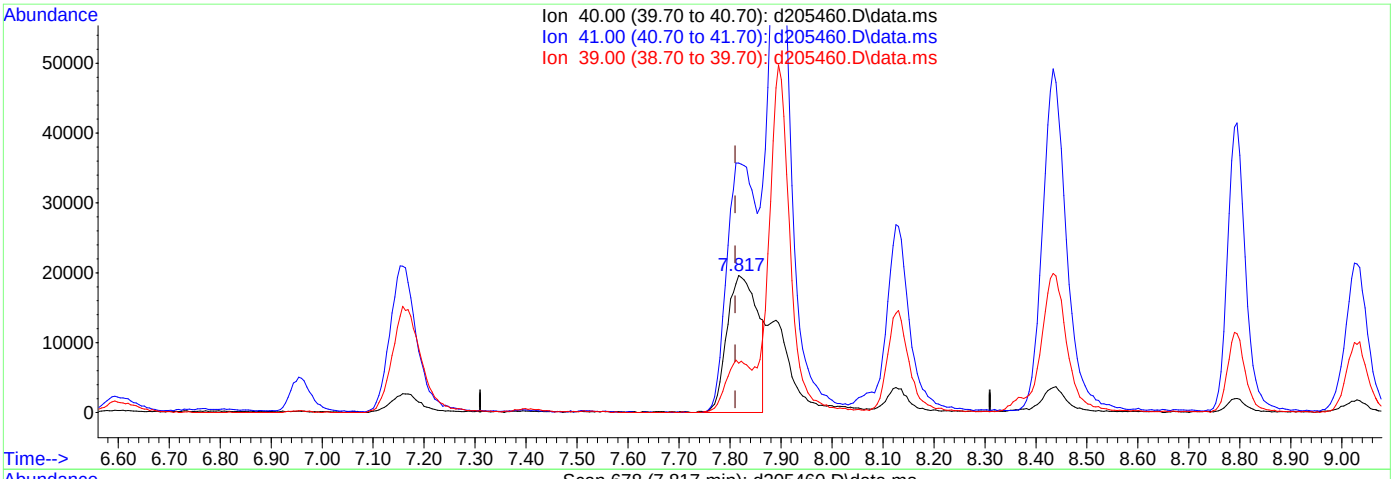
Sample Number:	VD8383-BS	**Method:**	SW846 8260B
Lab FileID:	D205460.D	**Analyst approved:**	02/15/13 01:24 Kanya Veerawat
Injection Time:	02/14/13 11:17	**Supervisor approved:**	02/15/13 01:26 Kanya Veerawat

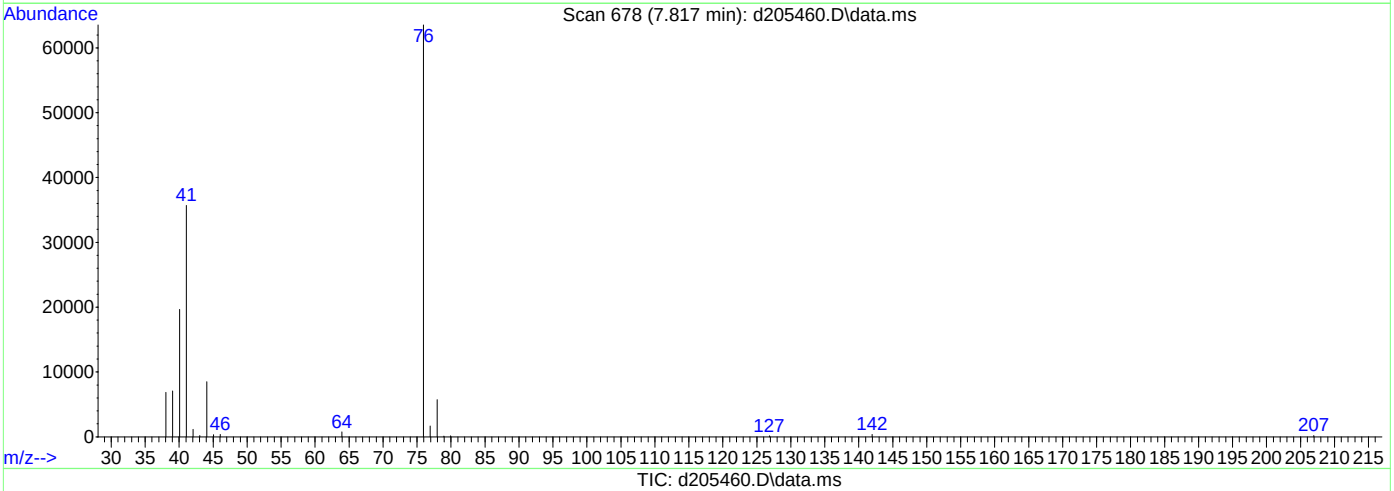
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205460.D
Acq On    : 14 Feb 2013  11:17 am
Operator  : EmilyT
Sample    : bs
Misc      : ms42950,vd8383,5,,100,5,1
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Feb 14 11:47:00 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: d205460.D\data.ms

(22) acetonitrile (M)

7.817min (+0.007) 707.60ug/L m

response 81418

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	181.83
39.00	37.10	36.06
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181531.D
Acq On : 15 Feb 2013 2:51 pm
Operator : SCOTTM
Sample : BS
Misc : MS43192,VI7333,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 15:14:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	141366	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	214825	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.392	114	340069	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	261411	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	135008	50.00	ug/L	-0.01

System Monitoring Compounds

43) dibromofluoromethane (s)	9.513	113	107873	51.11	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.22%			
47) 1,2-dichloroethane-d4...	9.937	65	151770	56.28	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 112.56%			
76) toluene-d8 (s)	12.045	98	405149	52.00	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 104.00%			
91) 4-bromofluorobenzene (s)	14.722	95	148294	54.80	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 109.60%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.327	59	85884	236.08	ug/L	97
3) iso-butyl alcohol	10.010	74	42482	362.40	ug/L #	1
4) 1,4-dioxane	11.114	88	24089	1096.02	ug/L #	83
6) chlorodifluoromethane	3.791	51	163322	55.75	ug/L	99
7) dichlorodifluoromethane	3.765	85	149196	45.25	ug/L	99
8) chloromethane	4.121	50	197103	57.65	ug/L	97
9) vinyl chloride	4.372	62	163542	51.77	ug/L	98
10) bromomethane	5.020	94	73120	48.16	ug/L	98
11) chloroethane	5.198	64	68470	54.53	ug/L	93
12) trichlorofluoromethane	5.658	101	161083	51.31	ug/L	96
13) ethyl ether	6.082	74	60012	48.43	ug/L	81
14) acrolein	6.333	56	217882	609.67	ug/L	96
15) freon 113	6.480	151	69733	42.98	ug/L	94
16) 1,1-dichloroethene	6.500	61	219804	55.84	ug/L	95
17) acetone	6.558	58	9272	56.68	ug/L	97
18) iodomethane	6.772	142	169368	46.35	ug/L	94
19) carbon disulfide	6.898	76	411097	50.32	ug/L	96
20) methyl acetate	7.034	74	15953	54.36	ug/L #	69
21) allyl chloride	7.044	76	67160	48.24	ug/L #	71
22) acetonitrile	7.039	41	449861	631.29	ug/L	98
23) methylene chloride	7.238	84	114314	46.68	ug/L	89
24) methyl tert butyl ether	7.578	73	730127	110.90	ug/L	93
25) acrylonitrile	7.567	53	197824	301.42	ug/L	97
26) trans-1,2-dichloroethene	7.620	96	106602	46.49	ug/L	87
28) di-isopropyl ether	8.185	45	528637	58.60	ug/L	82
30) 1,1-dichloroethane	8.195	63	247608	53.64	ug/L	99
31) chloroprene	8.305	53	224043	54.83	ug/L	93
32) ethyl tert-butyl ether	8.655	59	465582	56.85	ug/L	94
33) 2-butanone	8.917	72	11190	56.94	ug/L #	47
34) ethyl acetate	8.938	45	19020	64.98	ug/L	53
35) 2,2-dichloropropane	8.938	77	211067	51.68	ug/L	99
36) cis-1,2-dichloroethene	8.938	96	114097	46.21	ug/L #	77
37) methacrylonitrile	9.189	67	40585	54.95	ug/L #	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181531.D
Acq On : 15 Feb 2013 2:51 pm
Operator : SCOTTM
Sample : BS
Misc : MS43192,VI7333,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 15:14:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.006	54	156583	640.61	ug/L		93
39) bromochloromethane	9.252	128	48202	49.40	ug/L	#	80
40) tetrahydrofuran	9.293	42	49312	66.43	ug/L		93
41) chloroform	9.314	83	215401	50.42	ug/L		97
42) tert-Butyl Formate	9.351	59	131594	65.15	ug/L	#	85
44) 1,1,1-trichloroethane	9.565	97	191592	52.27	ug/L		96
45) cyclohexane	9.639	84	168498	47.00	ug/L		94
48) carbon tetrachloride	9.769	117	167659	52.18	ug/L		99
49) 1,1-dichloropropene	9.748	75	176124	49.51	ug/L		97
50) isopropyl acetate	9.942	61	50420	63.42	ug/L		95
51) benzene	10.010	78	473242	47.86	ug/L		97
53) tert-amyl methyl ether	10.052	73	382287	53.09	ug/L		96
54) 1,2-dichloroethane	10.026	62	184046	57.24	ug/L		98
56) n-butyl alcohol	10.523	56	191292	3743.47	ug/L		88
57) trichloroethene	10.737	95	116526	46.76	ug/L		92
59) methyl methacrylate	11.009	69	64793	52.14	ug/L		91
60) 1,2-dichloropropane	10.998	63	132640	50.92	ug/L		100
61) methylcyclohexane	10.951	83	191406	43.70	ug/L		89
62) dibromomethane	11.161	93	65600	51.29	ug/L		95
63) bromodichloromethane	11.291	83	157393	50.12	ug/L		99
64) 2-nitropropane	11.511	41	52669	78.96	ug/L	#	1
65) 2-chloroethyl vinyl ether	11.537	63	245663	428.77	ug/L		98
66) epichlorohydrin	11.652	57	53397	306.05	ug/L		95
67) cis-1,3-dichloropropene	11.752	75	194475	49.14	ug/L		88
68) 4-methyl-2-pentanone	11.851	58	41816	61.23	ug/L	#	84
69) 3-methyl-1-butanol	11.872	70	56265	1269.98	ug/L	#	80
70) toluene	12.118	91	453310	45.62	ug/L		98
71) trans-1,3-dichloropropene	12.316	75	171597	51.11	ug/L		77
72) ethyl methacrylate	12.311	69	124204	55.98	ug/L		88
73) 1,1,2-trichloroethane	12.531	83	73512	50.38	ug/L		95
74) 2-hexanone	12.709	58	34438	62.19	ug/L		93
77) tetrachloroethene	12.704	166	95872	42.63	ug/L		94
78) 1,3-dichloropropane	12.714	76	142752	53.01	ug/L		99
79) butyl acetate	12.782	56	68392	68.12	ug/L		96
80) 3,3-Dimethyl-1-Butanol	12.876	57	129930	889.23	ug/L		98
81) dibromochloromethane	12.975	129	97319	53.58	ug/L		100
82) 1,2-dibromoethane	13.122	107	80195	52.35	ug/L		100
83) chlorobenzene	13.587	112	260551	46.53	ug/L		95
84) 1,1,1,2-tetrachloroethane	13.650	131	93791	49.26	ug/L		98
85) ethylbenzene	13.645	91	473098	45.98	ug/L		97
86) m,p-xylene	13.755	106	346855	89.84	ug/L		92
87) o-xylene	14.173	106	167177	45.76	ug/L		89
88) styrene	14.184	104	276667	45.97	ug/L		95
89) bromoform	14.445	173	59535	55.38	ug/L		98
92) isopropylbenzene	14.518	105	440403	48.78	ug/L		96
93) cyclohexanone	14.681	55	95657	1822.72	ug/L		93
94) 1,1,2,2-tetrachloroethane	14.827	83	111480	59.57	ug/L		99
95) trans-1,4-dichloro-2-b...	14.869	53	35528	61.77	ug/L		86
96) 1,2,3-trichloropropane	14.900	110	23403	59.07	ug/L		93
97) n-propylbenzene	14.932	91	543757	49.54	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181531.D
Acq On : 15 Feb 2013 2:51 pm
Operator : SCOTTM
Sample : BS
Misc : MS43192,VI7333,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 15:14:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

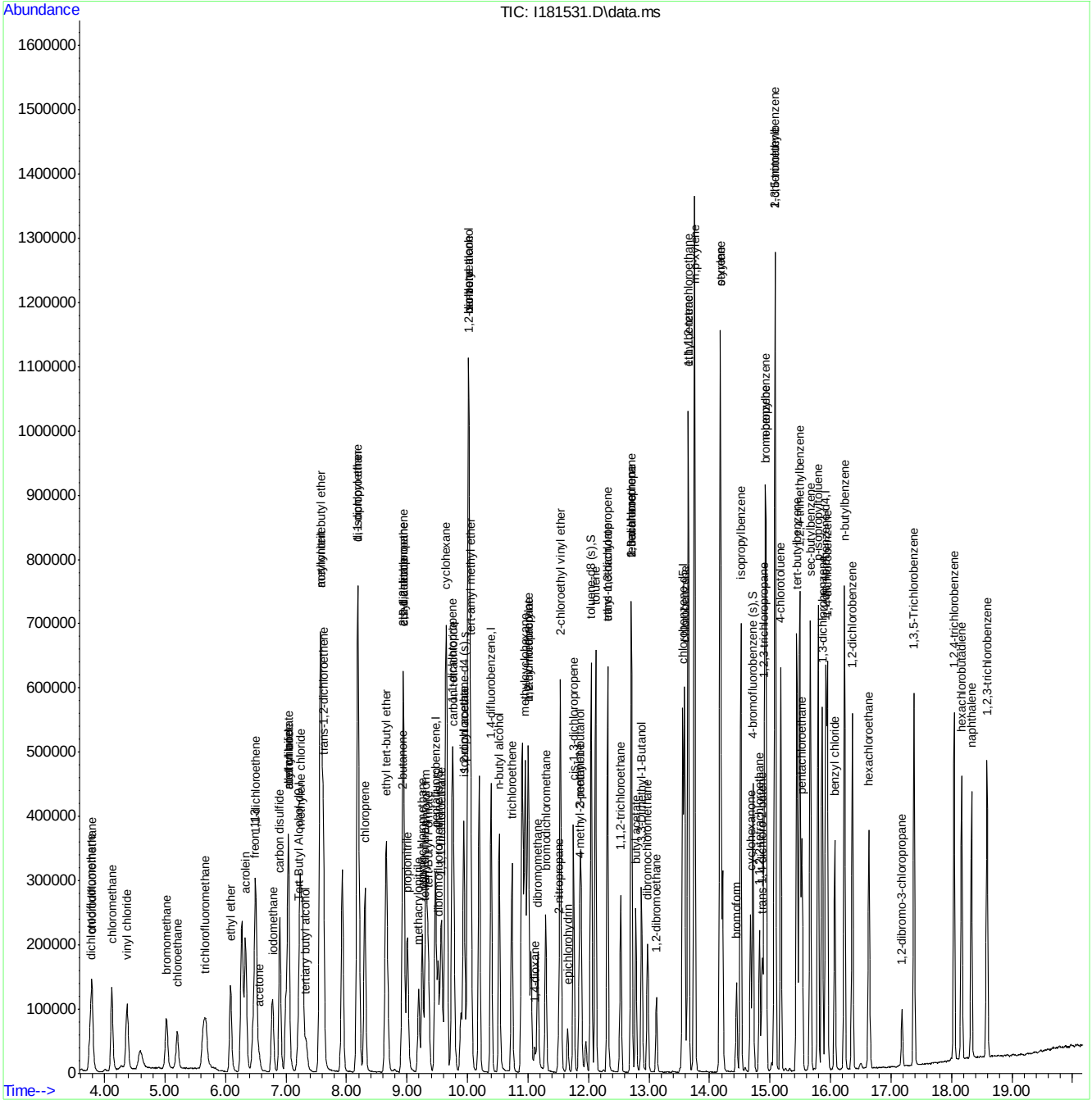
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) bromobenzene	14.916	156	104408	47.72 ug/L #	85
99) 2-chlorotoluene	15.078	126	103419	48.02 ug/L #	85
100) 4-chlorotoluene	15.183	91	352329	51.17 ug/L	99
101) 1,3,5-trimethylbenzene	15.089	105	389365	50.25 ug/L	98
102) tert-butylbenzene	15.444	119	308507	47.29 ug/L	92
103) pentachloroethane	15.528	167	68285	56.33 ug/L	98
104) 1,2,4-trimethylbenzene	15.491	105	389479	49.86 ug/L	99
105) sec-butylbenzene	15.669	105	497671	49.87 ug/L	98
106) p-isopropyltoluene	15.795	119	401236	48.19 ug/l	97
107) benzyl chloride	16.072	91	243914	71.36 ug/L	96
108) 1,3-dichlorobenzene	15.863	146	204336	47.40 ug/L	99
109) 1,4-dichlorobenzene	15.946	146	204307	46.84 ug/L	98
110) 1,2-dichlorobenzene	16.359	146	195780	47.69 ug/L	97
111) n-butylbenzene	16.229	92	231436	50.53 ug/L	97
112) hexachloroethane	16.637	119	82345	52.18 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.181	157	19391	58.92 ug/L	84
114) 1,3,5-Trichlorobenzene	17.379	180	174484	48.60 ug/L	98
115) 1,2,4-trichlorobenzene	18.044	180	148634	50.50 ug/L	99
116) hexachlorobutadiene	18.169	225	98886	49.76 ug/L	95
117) naphthalene	18.331	128	297617	62.62 ug/L	97
118) 1,2,3-trichlorobenzene	18.588	180	132233	54.12 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181531.D
Acq On : 15 Feb 2013 2:51 pm
Operator : SCOTTM
Sample : BS
Misc : MS43192,VI7333,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 15:14:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131345.D
Acq On : 25 Feb 2013 11:34 am
Operator : ROBERTS
Sample : BS
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 15:13:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	43685	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	112753	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	160527	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	126830	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	60678	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	45130	51.88	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.76%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	43235	49.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 98.32%			
76) toluene-d8 (s)	12.34	98	149103	53.44	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.88%			
100) 4-bromofluorobenzene (s)	14.96	95	50306	49.40	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.80%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	9598	1111.31	ug/L #	84
3) tertiary butyl alcohol	7.76	59	23482	233.16	ug/L	95
8) chlorodifluoromethane	4.18	51	38408	44.67	ug/L	99
9) dichlorodifluoromethane	4.16	85	51413	43.11	ug/L	97
10) chloromethane	4.51	50	51782	41.90	ug/L	99
11) vinyl chloride	4.78	62	48611	44.06	ug/L	98
12) bromomethane	5.46	94	34768	49.31	ug/L	100
13) chloroethane	5.63	64	24628	48.74	ug/L	97
15) trichlorofluoromethane	6.08	101	69861	50.90	ug/L	95
16) ethyl ether	6.48	74	23933	42.76	ug/L	95
17) 2-chloropropane	6.70	63	15788	48.05	ug/L	96
18) acrolein	6.81	56	80439	494.22	ug/L	98
19) 1,1-dichloroethene	6.93	61	54542	44.39	ug/L	96
20) acetone	7.03	58	2934	41.21	ug/L #	79
21) allyl chloride	7.47	76	23183	44.29	ug/L	90
22) acetonitrile	7.52	40	20790	566.49	ug/L	96
23) iodomethane	7.23	142	77087	44.64	ug/L	97
24) iso-butyl alcohol	10.14	41	13615	455.83	ug/L	94
25) carbon disulfide	7.34	76	117143	42.41	ug/L	98
26) 1-chloropropane	7.68	63	3217	47.97	ug/L #	53
27) methylene chloride	7.68	49	62527	49.92	ug/L	90
28) methyl acetate	7.47	74	5137	40.74	ug/L #	81
29) methyl tert butyl ether	7.95	73	245857	88.63	ug/L	99
30) trans-1,2-dichloroethene	8.02	61	54636	46.75	ug/L	97
31) di-isopropyl ether	8.52	45	139959	45.98	ug/L	97
32) ethyl tert-butyl ether	8.99	59	130119	42.97	ug/L	98
33) 2-butanone	9.32	72	4373	47.01	ug/L	89
34) 1,1-dichloroethane	8.60	63	74905	47.88	ug/L	98
35) chloroprene	8.69	53	47631	40.08	ug/L	96
36) acrylonitrile	8.05	53	64928	254.04	ug/L	97
37) vinyl acetate	8.59	86	5939	49.37	ug/L	84
38) ethyl acetate	9.31	45	5619	54.92	ug/L #	52
39) 2,2-dichloropropane	9.32	77	58617	45.33	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131345.D
Acq On : 25 Feb 2013 11:34 am
Operator : ROBERTS
Sample : BS
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 15:13:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) cis-1,2-dichloroethene	9.34	96	45552	42.54	ug/L		93
41) propionitrile	9.46	54	49737	472.07	ug/L		99
42) bromochloromethane	9.66	130	32031	48.35	ug/L		98
43) tetrahydrofuran	9.68	72	5426	50.05	ug/L		97
44) chloroform	9.70	83	75153	44.45	ug/L		99
45) tert-Butyl Formate	9.71	59	32738	47.67	ug/L		97
48) freon 113	6.88	151	22827	37.58	ug/L		97
49) methacrylonitrile	9.62	67	14734	45.14	ug/L		96
50) 1,1,1-trichloroethane	9.93	97	60047	45.03	ug/L		98
51) Cyclohexane	9.97	84	49291	42.13	ug/L	#	98
52) 2,2,4-trimethylpentane	10.30	57	110494	37.24	ug/L	#	89
53) tert-amyl methyl ether	10.37	73	116440	42.10	ug/L		98
55) epichlorohydrin	12.01	57	16462	222.31	ug/L		97
56) n-butyl alcohol	10.88	56	60391	2387.56	ug/L		96
57) carbon tetrachloride	10.11	117	54207	47.63	ug/L		100
58) 1,1-dichloropropene	10.10	75	48258	45.11	ug/L		97
59) hexane	8.26	57	37896	38.92	ug/L		97
61) benzene	10.37	78	145365	41.35	ug/L		98
62) heptane	10.47	57	22942	40.23	ug/L		99
63) isopropyl acetate	10.28	61	14522	44.65	ug/L		94
64) 1,2-dichloroethane	10.42	62	54047	51.03	ug/L		94
65) trichloroethene	11.07	95	39214	45.34	ug/L		95
67) 2-nitropropane	11.88	41	11459	49.11	ug/L		86
68) 2-chloroethyl vinyl ether	11.86	63	73301	302.04	ug/L		98
69) methyl methacrylate	11.33	69	25008	46.43	ug/L		94
70) 1,2-dichloropropane	11.35	63	41529	47.84	ug/L		97
71) methylcyclohexane	11.25	83	49380	39.48	ug/L		99
73) dibromomethane	11.52	93	27057	48.48	ug/L		97
74) bromodichloromethane	11.64	83	60060	47.67	ug/L		99
75) cis-1,3-dichloropropene	12.08	75	67161	45.69	ug/L		97
77) 4-methyl-2-pentanone	12.16	58	14403	47.27	ug/L		91
78) toluene	12.41	91	148203	40.65	ug/L		97
79) 3-methyl-1-butanol	12.19	70	20767	880.20	ug/L		93
80) trans-1,3-dichloropropene	12.63	75	61194	47.74	ug/L		99
81) ethyl methacrylate	12.59	69	44728	43.30	ug/L		94
82) 1,1,2-trichloroethane	12.84	83	29585	46.79	ug/L		94
83) 2-hexanone	13.00	58	13057	45.49	ug/L		98
85) tetrachloroethene	12.97	166	40012	43.73	ug/L		97
86) 1,3-dichloropropane	13.02	76	55512	47.78	ug/L		99
87) butyl acetate	13.04	56	20552	44.90	ug/L		96
88) dibromochloromethane	13.28	129	47734	49.52	ug/L		99
89) 1,2-dibromoethane	13.43	107	36713	48.30	ug/L		96
90) 3,3-Dimethyl-1-Butanol	13.16	57	35665	449.05	ug/L		98
91) chlorobenzene	13.86	112	100514	43.97	ug/L		97
92) 1,1,1,2-tetrachloroethane	13.92	131	41162	47.99	ug/L		99
93) ethylbenzene	13.90	91	154472	42.16	ug/L		99
94) m,p-xylene	14.00	106	115334	81.35	ug/L		98
95) o-xylene	14.41	91	131873	42.07	ug/L		99
96) styrene	14.43	104	99145	41.38	ug/L		98
97) bromoform	14.72	173	32401	50.38	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131345.D
Acq On : 25 Feb 2013 11:34 am
Operator : ROBERTS
Sample : BS
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 15:13:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) isopropylbenzene	14.74	105	147339	41.33 ug/L	99
101) bromobenzene	15.16	156	44656	43.50 ug/L	95
102) cyclohexanone	14.95	55	26442	220.22 ug/L	95
103) 1,1,2,2-tetrachloroethane	15.08	83	42001	43.51 ug/L	98
104) trans-1,4-dichloro-2-buten	15.12	53	9916	43.29 ug/L	94
105) 1,2,3-trichloropropane	15.16	110	10785	47.18 ug/L	96
106) n-propylbenzene	15.14	91	171687	41.84 ug/L	100
108) 2-chlorotoluene	15.30	126	37025	43.51 ug/L	99
109) 4-chlorotoluene	15.40	91	111564	41.43 ug/L	99
110) 1,3,5-trimethylbenzene	15.28	105	123215	41.59 ug/L	97
111) tert-butylbenzene	15.63	119	104105	41.77 ug/L	98
112) pentachloroethane	15.74	167	31849	47.25 ug/L	98
113) 1,2,4-trimethylbenzene	15.68	105	125088	41.19 ug/L	97
114) sec-butylbenzene	15.84	105	148211	39.97 ug/L	99
115) 1,3-dichlorobenzene	16.05	146	78169	41.91 ug/L	96
116) p-isopropyltoluene	15.95	119	127022	41.56 ug/L	99
117) 1,4-dichlorobenzene	16.13	146	76265	40.92 ug/L	98
118) 1,2-dichlorobenzene	16.53	146	76172	42.48 ug/L	99
119) n-butylbenzene	16.36	134	27632	41.18 ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	9167	47.44 ug/L	93
122) 1,3,5-Trichlorobenzene	17.46	180	59341	41.08 ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	55187	43.96 ug/L	99
125) hexachlorobutadiene	18.20	225	30693	43.69 ug/L	96
126) naphthalene	18.40	128	99053	39.70 ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	48403	43.60 ug/L	97
128) hexachloroethane	16.76	119	30256	45.49 ug/L	98
129) Benzyl chloride	16.25	91	71148	40.74 ug/L	99

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

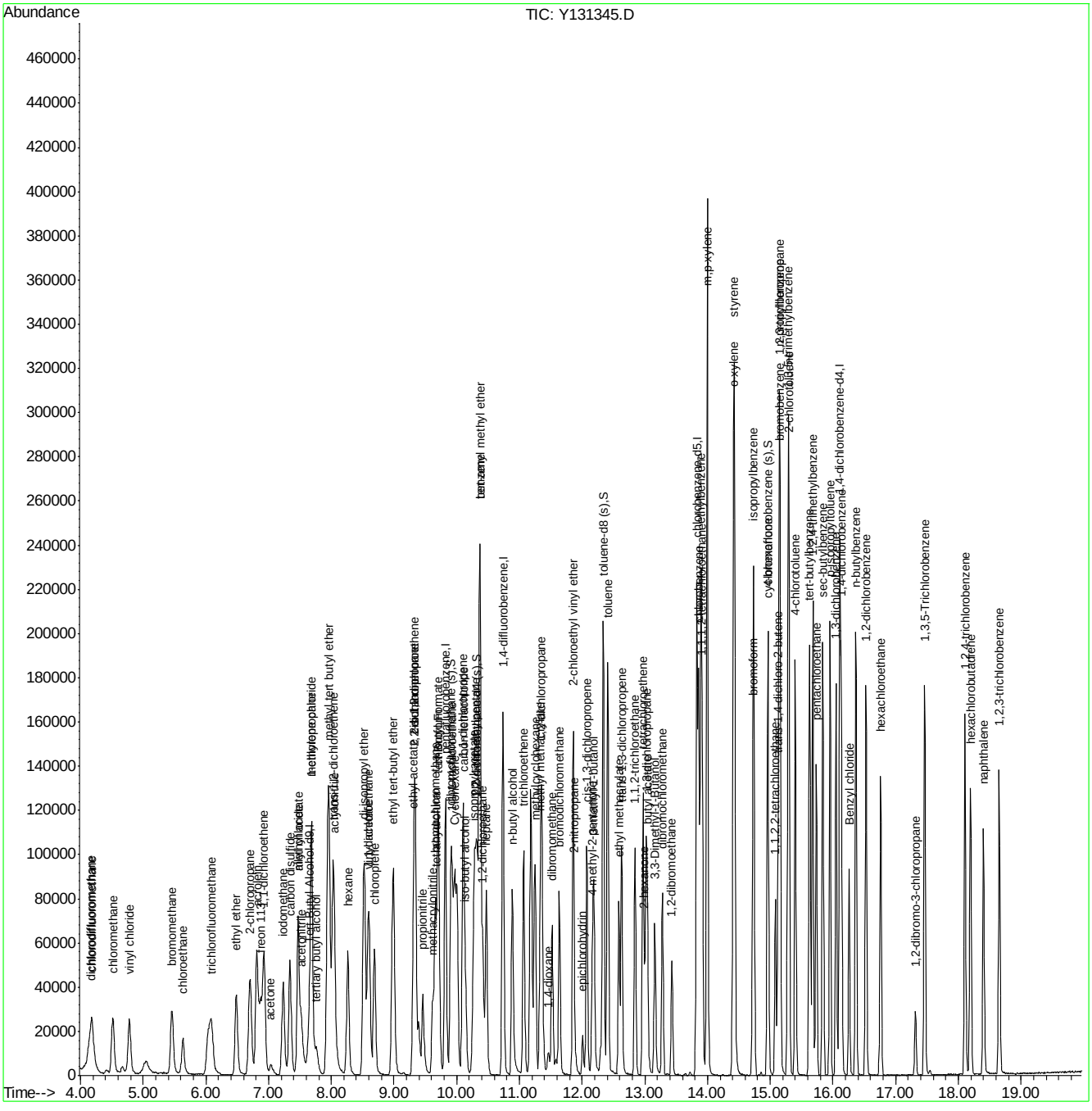
7.3.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131345.D
Acq On : 25 Feb 2013 11:34 am
Operator : ROBERTS
Sample : BS
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 25 15:13:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/14/13 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205433.D
Acq On : 13 Feb 2013 1:51 pm
Operator : EmilyT
Sample : jb28374-6ms
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 16:12:42 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	8.041	65	143474	500.00 ug/L	0.03
4) pentafluorobenzene	10.252	168	216349	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	334821	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	307863	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.096	152	190417	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	101147	47.87 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.74%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	124086	48.64 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.28%		
77) toluene-d8 (s)	12.877	98	401984	49.54 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.08%		
101) 4-bromofluorobenzene (s)	15.789	95	165870	47.95 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.90%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	42247	1548.48 ug/L	96
3) tertiary butyl alcohol	8.156	59	81913	267.94 ug/L #	19
6) chlorodifluoromethane	4.564	51	132078	55.84 ug/L	98
7) dichlorodifluoromethane	4.543	85	138090	47.65 ug/L	98
8) chloromethane	4.909	50	157840	48.91 ug/L	97
9) vinyl chloride	5.186	62	168984	51.62 ug/L	99
10) bromomethane	5.829	94	46564	25.40 ug/L	98
11) chloroethane	6.012	64	64267	34.93 ug/L	97
13) trichlorofluoromethane	6.540	101	175246	50.45 ug/L	98
15) ethyl ether	6.959	74	71483	46.38 ug/L	98
16) acrolein	7.183	56	271909	440.80 ug/L	99
18) 2-chloropropane	7.147	43	209672	46.24 ug/L	99
19) 1,1-dichloroethene	7.377	96	108124	49.40 ug/L	99
20) acetone	7.414	58	12532	51.77 ug/L	97
21) allyl chloride	7.889	41	281529	53.83 ug/L	98
22) acetonitrile	7.832	40	54929m	461.18 ug/L	
24) iodomethane	7.649	142	200484	51.72 ug/L	100
26) carbon disulfide	7.785	76	383389	50.90 ug/L	100
27) methylene chloride	8.067	84	124063	46.10 ug/L	99
28) 1-chloropropane	8.124	42	215492	47.47 ug/L	99
29) methyl acetate	7.874	43	106595	46.81 ug/L	99
30) methyl tert butyl ether	8.438	73	368258	50.23 ug/L	100
31) trans-1,2-dichloroethene	8.454	96	115404	50.66 ug/L	99
32) di-isopropyl ether	9.034	45	402102	52.04 ug/L	99
33) ethyl tert-butyl ether	9.494	59	409563	53.10 ug/L	99
34) 2-butanone	9.698	72	15927	51.59 ug/L #	95
35) 1,1-dichloroethane	9.008	63	212633	52.23 ug/L	99
36) chloroprene	9.128	53	181176	56.01 ug/L	98
37) acrylonitrile	8.375	53	256620	255.57 ug/L	99
38) vinyl acetate	8.998	86	24859	50.87 ug/L	94
39) ethyl acetate	9.724	45	18658	50.18 ug/L	86
40) 2,2-dichloropropane	9.761	77	167324	55.79 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	123845	50.97 ug/L	98
42) propionitrile	9.771	54	202841	512.69 ug/L	99
43) bromochloromethane	10.033	128	60125	51.40 ug/L	100
44) tetrahydrofuran	10.095	72	17634	47.48 ug/L	96
45) chloroform	10.090	83	193816	51.75 ug/L	99
48) freon 113	7.356	151	85872	55.99 ug/L	99
49) methacrylonitrile	9.970	41	79471	46.83 ug/L	98
50) t-butyl formate	10.158	59	125989	51.78 ug/L	99
51) 1,1,1-trichloroethane	10.378	97	173560	52.89 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205433.D
Acq On : 13 Feb 2013 1:51 pm
Operator : EmilyT
Sample : jb28374-6ms
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 16:12:42 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)
52) tert-amyl methyl ether	10.864	73	391081	51.24 ug/L	99
54) cyclohexane	10.477	84	182944	52.75 ug/L	98
56) 2,2,4-trimethylpentane	10.859	57	449874	53.97 ug/L	99
57) epichlorohydrin	12.427	57	74101	260.79 ug/L	98
58) n-butyl alcohol	11.256	56	219012	2543.74 ug/L	99
59) carbon tetrachloride	10.587	117	151682	52.64 ug/L	97
60) 1,1-dichloropropene	10.550	75	155246	52.12 ug/L	99
61) hexane	8.788	57	141532	51.64 ug/L	99
62) benzene	10.812	78	461534	52.03 ug/L	100
63) heptane	11.010	57	82915	53.92 ug/L	98
64) isopropyl acetate	10.723	43	238228	49.13 ug/L	100
65) 1,2-dichloroethane	10.796	62	156083	52.36 ug/L	99
67) trichloroethene	11.517	95	113226	51.83 ug/L	99
68) 2-nitropropane	12.312	43	324077	49.55 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	429926	258.29 ug/L	99
70) methyl methacrylate	11.784	100	33318	50.83 ug/L	93
72) 1,2-dichloropropane	11.784	63	123263	51.65 ug/L	97
73) methylcyclohexane	11.784	83	213454	57.76 ug/L	99
74) dibromomethane	11.925	93	73338	52.27 ug/L	96
75) bromodichloromethane	12.056	83	150711	51.98 ug/L	96
76) cis-1,3-dichloropropene	12.542	75	196677	52.33 ug/L	99
78) 4-methyl-2-pentanone	12.657	58	51397	49.30 ug/L	95
79) toluene	12.955	92	284914	51.53 ug/L	99
80) 3-methyl-1-butanol	12.642	70	82955	1029.94 ug/L	99
81) trans-1,3-dichloropropene	13.128	75	186278	52.50 ug/L	97
82) ethyl methacrylate	13.143	69	170073	51.25 ug/L	100
83) 1,1,2-trichloroethane	13.358	83	88018	50.32 ug/L	99
84) 2-hexanone	13.562	58	48137	50.66 ug/L	97
86) tetrachloroethene	13.588	166	122374	48.56 ug/L	97
87) 1,3-dichloropropane	13.562	76	186356	50.47 ug/L	99
88) butyl acetate	13.650	56	85884	52.81 ug/L	98
89) 3,3-dimethyl-1-butanol	13.734	57	144245	494.39 ug/L	100
90) dibromochloromethane	13.844	129	119088	50.77 ug/L	99
91) 1,2-dibromoethane	14.022	107	112709	51.86 ug/L	96
92) chlorobenzene	14.544	112	316222	50.57 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	118399	51.17 ug/L	99
94) ethylbenzene	14.612	91	549196	50.51 ug/L	99
95) m,p-xylene	14.733	106	423616	97.78 ug/L	98
96) o-xylene	15.198	106	213832	49.73 ug/L	99
97) styrene	15.198	104	371700	51.35 ug/L	100
98) bromoform	15.470	173	91599	50.44 ug/L	98
100) isopropylbenzene	15.585	105	561604	49.36 ug/L	99
102) bromobenzene	16.014	156	151790	49.09 ug/L	98
103) cyclohexanone	15.747	55	45362	514.46 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.878	83	157757	44.97 ug/L	98
105) trans-1,4-dichloro-2-b...	15.930	53	50005	52.24 ug/L	98
106) 1,2,3-trichloropropane	15.967	110	45683	45.87 ug/L	93
107) n-propylbenzene	16.040	91	662526	48.87 ug/L	99
109) 2-chlorotoluene	16.197	126	139095	49.23 ug/L	100
110) 4-chlorotoluene	16.301	91	430190	48.61 ug/L	100
111) 1,3,5-trimethylbenzene	16.207	105	501356	47.41 ug/L	100
112) tert-butylbenzene	16.604	119	423194	47.68 ug/L	100
113) pentachloroethane	16.672	167	97944	49.48 ug/L	99
114) 1,2,4-trimethylbenzene	16.646	105	515051	47.91 ug/L	100
115) sec-butylbenzene	16.845	105	646676	49.46 ug/L	99
116) 1,3-dichlorobenzene	17.033	146	295399	48.44 ug/L	99
117) p-isopropyltoluene	16.976	119	535158	49.42 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	306416	48.14 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205433.D
Acq On : 13 Feb 2013 1:51 pm
Operator : EmilyT
Sample : jb28374-6ms
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 16:12:42 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

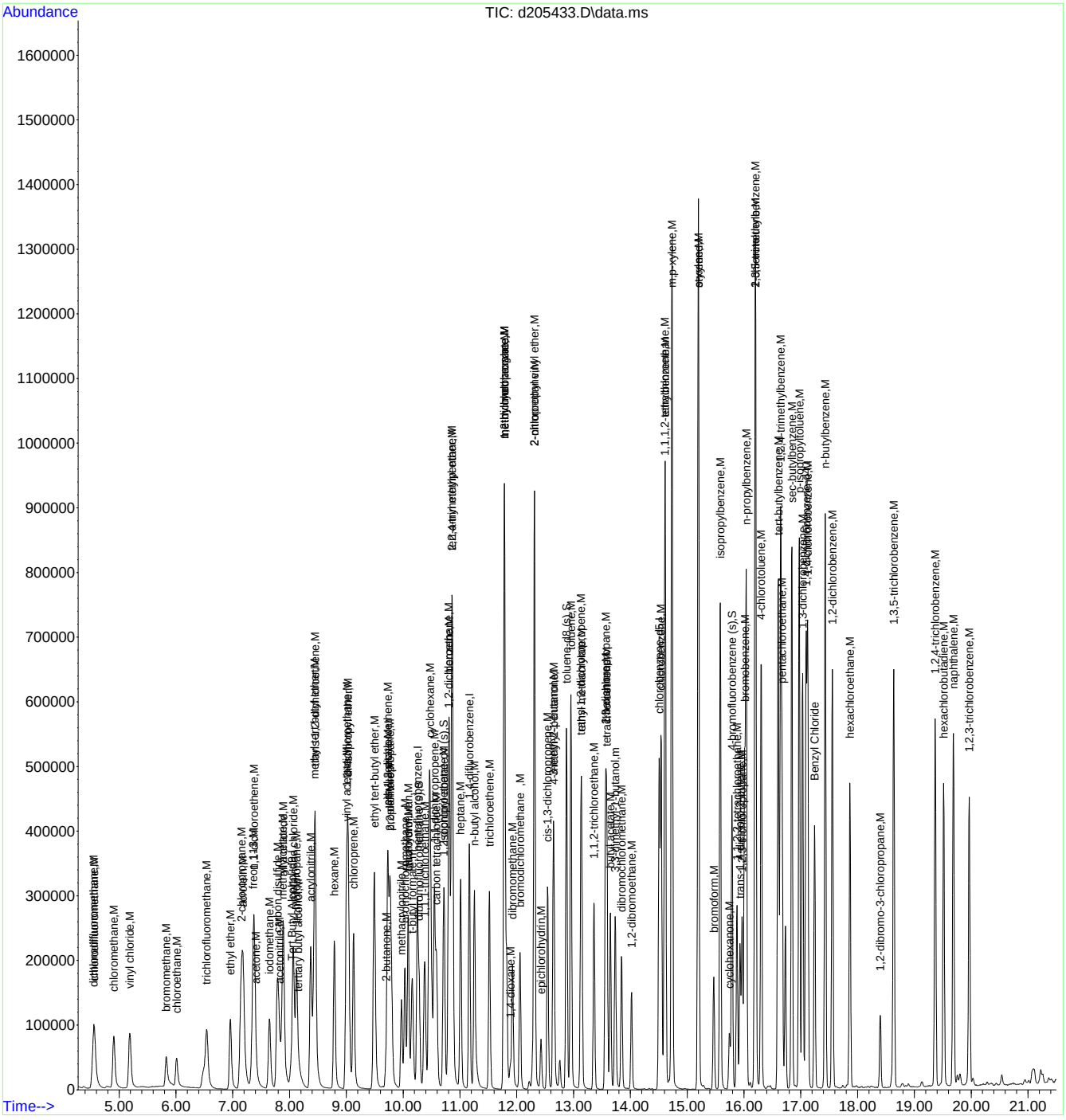
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.242	91	321641	55.26 ug/L	100
121) 1,2-dichlorobenzene	17.556	146	291890	47.10 ug/L	100
122) n-butylbenzene	17.430	92	287878	48.40 ug/L	100
124) 1,2-dibromo-3-chloropr...	18.398	75	31056	45.60 ug/L	98
125) 1,3,5-trichlorobenzene	18.638	180	238019	50.36 ug/L	98
126) 1,2,4-trichlorobenzene	19.365	180	206141	53.81 ug/L	99
127) hexachlorobutadiene	19.516	225	114039	51.11 ug/L	97
128) naphthalene	19.689	128	506919	60.16 ug/L	99
129) 1,2,3-trichlorobenzene	19.966	180	169181	54.87 ug/L	97
130) hexachloroethane	17.864	119	101466	49.50 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205433.D
Acq On : 13 Feb 2013 1:51 pm
Operator : EmilyT
Sample : jb28374-6ms
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 16:12:42 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



Manual Integration Approval Summary

Sample Number:	JB28374-6MS	**Method:**	SW846 8260B
Lab FileID:	D205433.D	**Analyst approved:**	02/13/13 17:04 Ying Li
Injection Time:	02/13/13 13:51	**Supervisor approved:**	02/14/13 17:40 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Overlapping peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205433.D
Acq On    : 13 Feb 2013   1:51 pm
Operator  : EmilyT
Sample    : jb28374-6ms
Misc      : ms43031,vd8381,7,,100,10,1
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Feb 13 16:12:03 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
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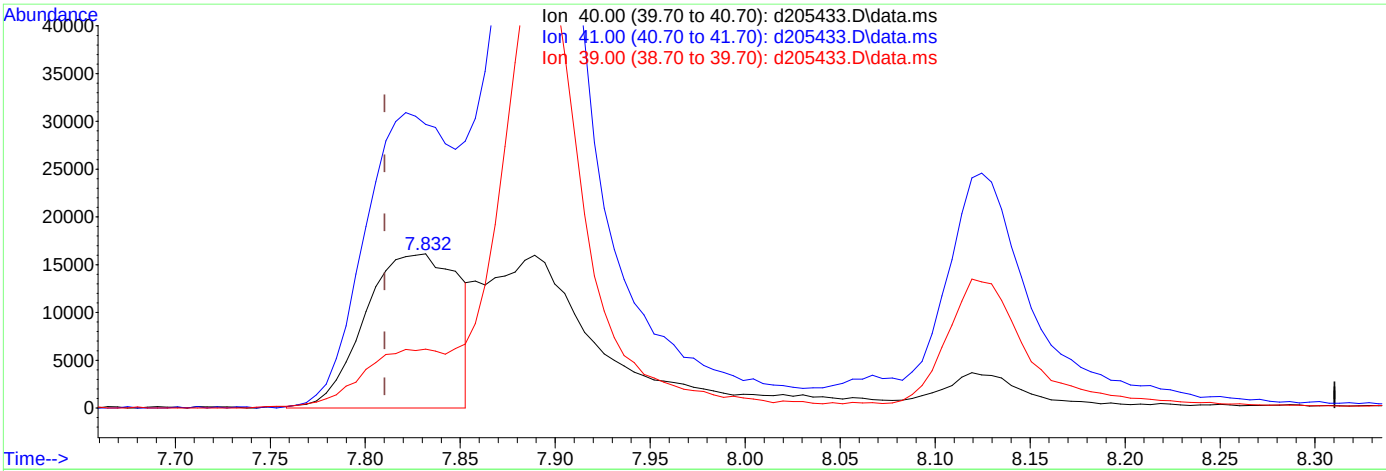
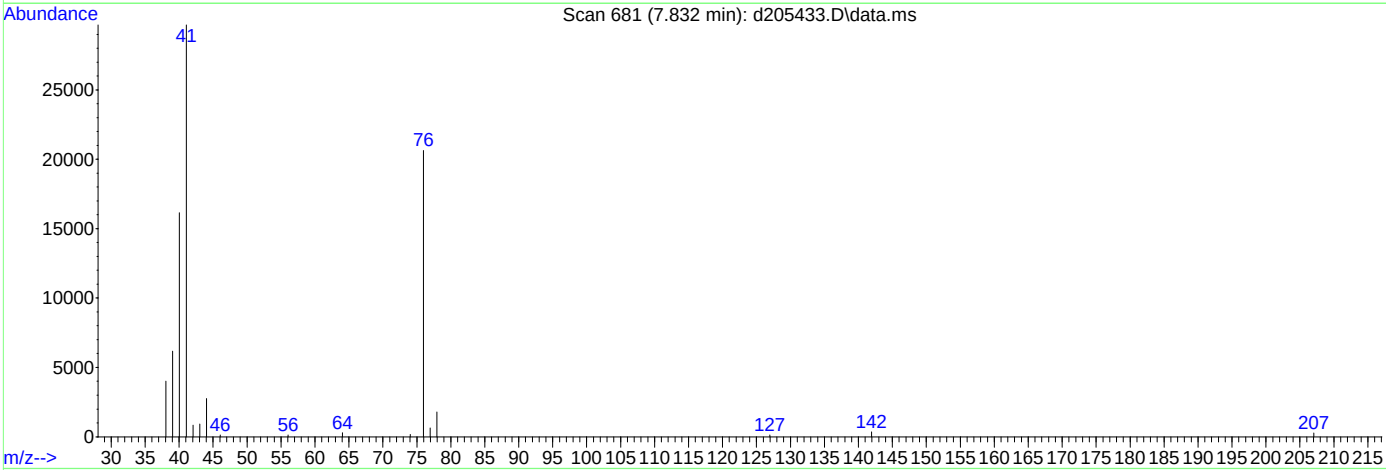




TIC: d205433.D\data.ms

(22) acetonitrile (M)

7.832min (+0.022) 461.18ug/L m

response 54929

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	183.91
39.00	37.10	38.17
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/14/13 17:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205434.D
Acq On : 13 Feb 2013 2:21 pm
Operator : EmilyT
Sample : jb28374-6msd
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 16:13:42 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	8.030	65	140662	500.00 ug/L	0.02
4) pentafluorobenzene	10.252	168	216333	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	336004	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	307125	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	189827	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.283	113	101991	48.28 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.56%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	123490	48.41 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.82%		
77) toluene-d8 (s)	12.876	98	402604	49.44 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.88%		
101) 4-bromofluorobenzene (s)	15.788	95	165407	47.97 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 95.94%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.888	88	33564	1254.82 ug/L	91
3) tertiary butyl alcohol	8.145	59	81936	273.37 ug/L #	54
6) chlorodifluoromethane	4.564	51	135615	57.34 ug/L	99
7) dichlorodifluoromethane	4.548	85	145453	50.19 ug/L	99
8) chloromethane	4.909	50	157107	48.69 ug/L	99
9) vinyl chloride	5.191	62	172494	52.69 ug/L	100
10) bromomethane	5.834	94	59736	32.59 ug/L	98
11) chloroethane	6.023	64	95354	51.82 ug/L	99
13) trichlorofluoromethane	6.551	101	191047	55.00 ug/L	98
15) ethyl ether	6.958	74	76222	49.46 ug/L	96
16) acrolein	7.183	56	284664	461.51 ug/L	100
18) 2-chloropropane	7.152	43	226110	49.87 ug/L	99
19) 1,1-dichloroethene	7.387	96	115811	52.91 ug/L	98
20) acetone	7.403	58	13677	56.51 ug/L	100
21) allyl chloride	7.894	41	293453	56.12 ug/L	97
22) acetonitrile	7.821	40	63516m	533.32 ug/L	
24) iodomethane	7.648	142	210199	54.23 ug/L	98
26) carbon disulfide	7.790	76	411992	54.70 ug/L	99
27) methylene chloride	8.067	84	131092	48.71 ug/L	95
28) 1-chloropropane	8.124	42	231830	51.07 ug/L	99
29) methyl acetate	7.873	43	113221	49.73 ug/L	100
30) methyl tert butyl ether	8.438	73	384785	52.49 ug/L	99
31) trans-1,2-dichloroethene	8.454	96	119286	52.37 ug/L	95
32) di-isopropyl ether	9.034	45	411443	53.26 ug/L	98
33) ethyl tert-butyl ether	9.494	59	421533	54.66 ug/L	99
34) 2-butanone	9.698	72	16843	54.56 ug/L #	96
35) 1,1-dichloroethane	9.008	63	221461	54.40 ug/L	99
36) chloroprene	9.128	53	188430	58.26 ug/L	98
37) acrylonitrile	8.370	53	264250	263.19 ug/L	98
38) vinyl acetate	8.997	86	25208	51.59 ug/L	97
39) ethyl acetate	9.729	45	17989	48.39 ug/L	89
40) 2,2-dichloropropane	9.766	77	174565	58.21 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	128737	52.98 ug/L	97
42) propionitrile	9.776	54	208461	526.93 ug/L	90
43) bromochloromethane	10.032	128	62289	53.26 ug/L	98
44) tetrahydrofuran	10.095	72	18181	48.95 ug/L	99
45) chloroform	10.090	83	202666	54.12 ug/L	100
48) freon 113	7.361	151	87489	57.05 ug/L	100
49) methacrylonitrile	9.970	41	82959	48.89 ug/L	100
50) t-butyl formate	10.163	59	127969	52.60 ug/L	100
51) 1,1,1-trichloroethane	10.377	97	181472	55.30 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205434.D
Acq On : 13 Feb 2013 2:21 pm
Operator : EmilyT
Sample : jb28374-6msd
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 16:13:42 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)
52) tert-amyl methyl ether	10.864	73	400531	52.48 ug/L	99
54) cyclohexane	10.477	84	188373	54.12 ug/L	98
56) 2,2,4-trimethylpentane	10.864	57	459056	54.88 ug/L	99
57) epichlorohydrin	12.427	57	74440	261.06 ug/L	95
58) n-butyl alcohol	11.256	56	210004	2430.53 ug/L	99
59) carbon tetrachloride	10.587	117	159910	55.30 ug/L	98
60) 1,1-dichloropropene	10.550	75	161604	54.07 ug/L	99
61) hexane	8.788	57	141786	51.55 ug/L	99
62) benzene	10.811	78	478507	53.75 ug/L	99
63) heptane	11.015	57	84231	54.59 ug/L	98
64) isopropyl acetate	10.722	43	239018	49.12 ug/L	99
65) 1,2-dichloroethane	10.801	62	162300	54.26 ug/L	99
67) trichloroethene	11.517	95	118029	53.84 ug/L	97
68) 2-nitropropane	12.312	43	328490	50.05 ug/L	100
69) 2-chloroethyl vinyl ether	12.312	63	434286	259.99 ug/L	99
70) methyl methacrylate	11.784	100	34854	52.98 ug/L	97
72) 1,2-dichloropropane	11.784	63	127791	53.36 ug/L	99
73) methylcyclohexane	11.784	83	216110	58.28 ug/L	99
74) dibromomethane	11.925	93	76133	54.08 ug/L	98
75) bromodichloromethane	12.056	83	156391	53.75 ug/L	99
76) cis-1,3-dichloropropene	12.547	75	203282	53.89 ug/L	98
78) 4-methyl-2-pentanone	12.657	58	53035	50.69 ug/L	98
79) toluene	12.955	92	295497	53.25 ug/L	99
80) 3-methyl-1-butanol	12.641	70	83335	1031.01 ug/L	97
81) trans-1,3-dichloropropene	13.127	75	190065	53.38 ug/L	96
82) ethyl methacrylate	13.143	69	175691	52.76 ug/L	98
83) 1,1,2-trichloroethane	13.363	83	91094	51.90 ug/L	100
84) 2-hexanone	13.567	58	49758	52.18 ug/L	97
86) tetrachloroethene	13.587	166	129139	51.37 ug/L	98
87) 1,3-dichloropropane	13.567	76	194505	52.80 ug/L	99
88) butyl acetate	13.650	56	86553	53.35 ug/L	98
89) 3,3-dimethyl-1-butanol	13.734	57	143071	491.55 ug/L	99
90) dibromochloromethane	13.844	129	123168	52.64 ug/L	97
91) 1,2-dibromoethane	14.021	107	117589	54.23 ug/L	98
92) chlorobenzene	14.544	112	330408	52.97 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	123683	53.58 ug/L	97
94) ethylbenzene	14.617	91	570078	52.56 ug/L	100
95) m,p-xylene	14.732	106	445820	103.15 ug/L	97
96) o-xylene	15.198	106	222689	51.92 ug/L	97
97) styrene	15.198	104	386176	53.48 ug/L	99
98) bromoform	15.470	173	95955	52.96 ug/L	98
100) isopropylbenzene	15.585	105	587703	51.82 ug/L	99
102) bromobenzene	16.013	156	156758	50.86 ug/L	98
103) cyclohexanone	15.741	55	39788	452.64 ug/L	99
104) 1,1,2,2-tetrachloroethane	15.877	83	163414	46.72 ug/L	100
105) trans-1,4-dichloro-2-b...	15.930	53	51166	53.62 ug/L	95
106) 1,2,3-trichloropropane	15.966	110	47687	48.03 ug/L	93
107) n-propylbenzene	16.039	91	690880	51.12 ug/L	99
109) 2-chlorotoluene	16.196	126	145862	51.79 ug/L	99
110) 4-chlorotoluene	16.306	91	450487	51.06 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	524176	49.72 ug/L	99
112) tert-butylbenzene	16.604	119	452227	51.11 ug/L	100
113) pentachloroethane	16.672	167	102130	51.76 ug/L	99
114) 1,2,4-trimethylbenzene	16.646	105	537168	50.13 ug/L	100
115) sec-butylbenzene	16.844	105	678265	52.04 ug/L	99
116) 1,3-dichlorobenzene	17.033	146	305775	50.30 ug/L	99
117) p-isopropyltoluene	16.975	119	560198	51.89 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	318988	50.27 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205434.D
Acq On : 13 Feb 2013 2:21 pm
Operator : EmilyT
Sample : jb28374-6msd
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 16:13:42 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)
119) Benzyl Chloride	17.242	91	320973	55.32 ug/L	100
121) 1,2-dichlorobenzene	17.555	146	304011	49.21 ug/L	99
122) n-butylbenzene	17.430	92	303894	51.25 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.397	75	32349	47.65 ug/L	96
125) 1,3,5-trichlorobenzene	18.638	180	246443	52.31 ug/L	99
126) 1,2,4-trichlorobenzene	19.370	180	210015	54.99 ug/L	99
127) hexachlorobutadiene	19.516	225	119026	53.51 ug/L	100
128) naphthalene	19.689	128	453210	53.96 ug/L	100
129) 1,2,3-trichlorobenzene	19.966	180	165709	53.91 ug/L	98
130) hexachloroethane	17.864	119	105284	51.52 ug/L	99

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

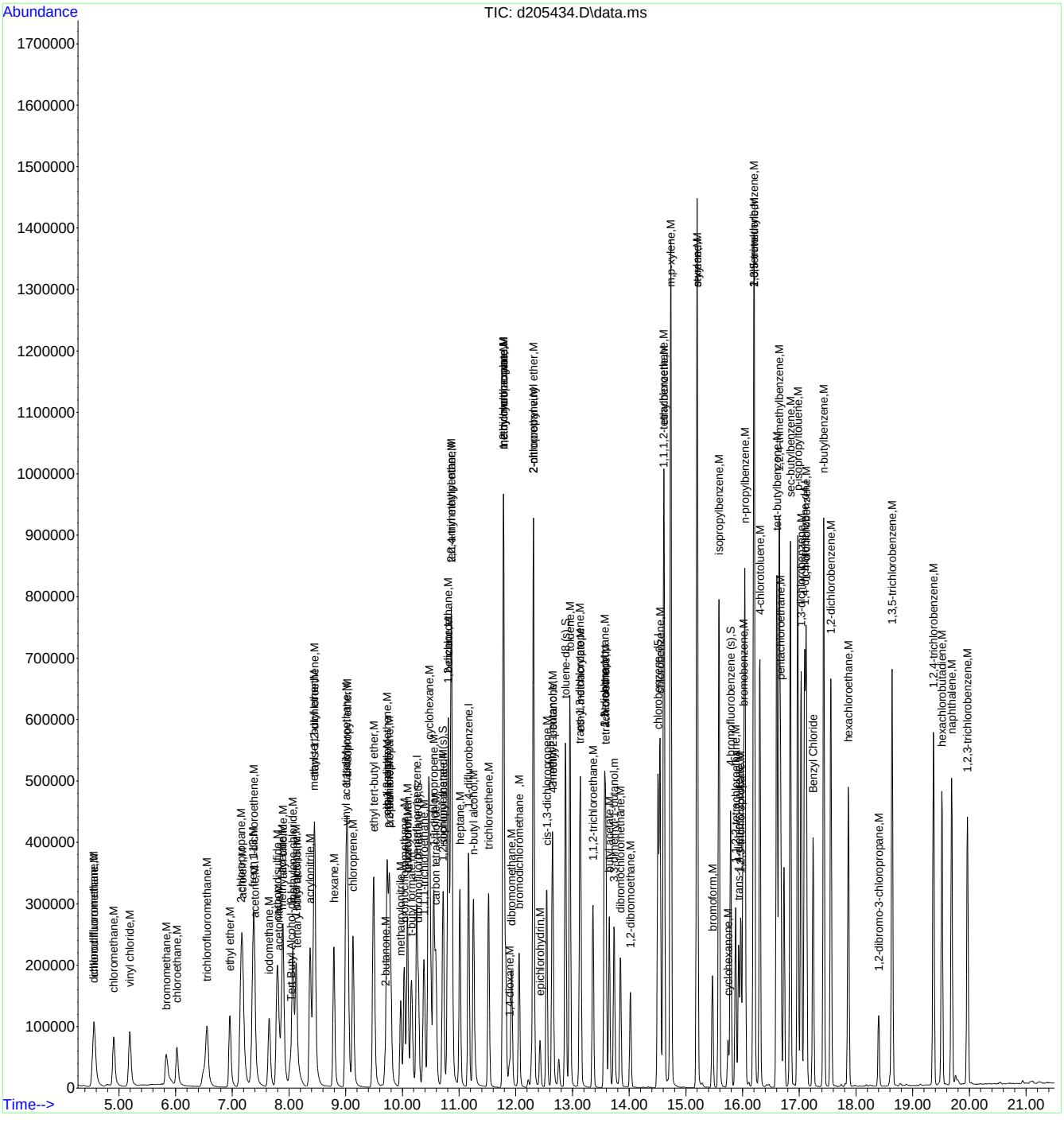
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205434.D
Acq On : 13 Feb 2013 2:21 pm
Operator : EmilyT
Sample : jb28374-6msd
Misc : ms43031,vd8381,7,,100,10,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 16:13:42 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



Manual Integration Approval Summary

Sample Number:	JB28374-6MSD	**Method:**	SW846 8260B
Lab FileID:	D205434.D	**Analyst approved:**	02/13/13 17:04 Ying Li
Injection Time:	02/13/13 14:21	**Supervisor approved:**	02/14/13 17:40 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 : d205434.D
Acq On    : 13 Feb 2013   2:21 pm
Operator  : EmilyT
Sample    : jb28374-6msd
Misc      : ms43031,vd8381,7,,100,10,1
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Feb 13 16:12:51 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
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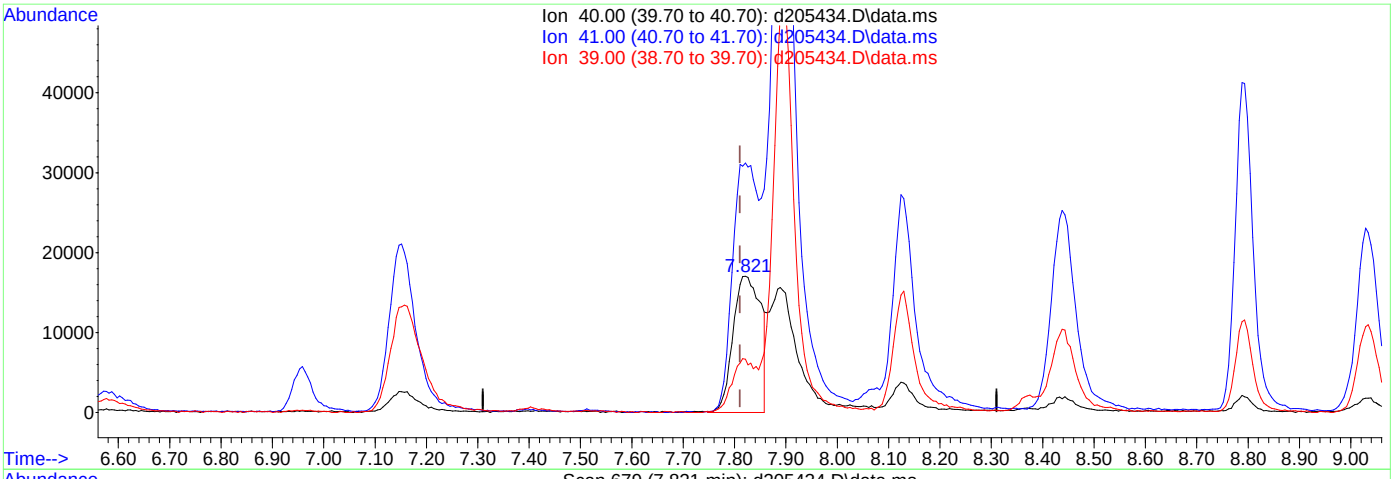
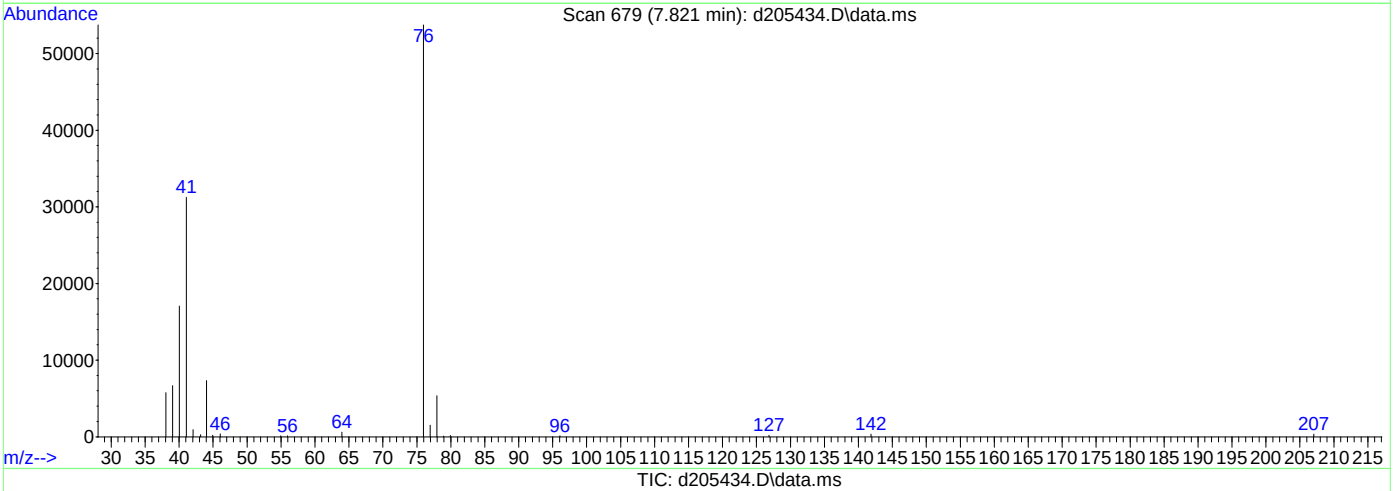




TIC: d205434.D\data.ms

(22) acetonitrile (M)

7.821min (+0.011) 533.32ug/L m

response 63516

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	183.11
39.00	37.10	39.09
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/18/13 02:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205467.D
Acq On : 14 Feb 2013 2:58 pm
Operator : EmilyT
Sample : jb28044-7ms
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 16:02:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.020	65	119868	500.00 ug/L	0.00
4) pentafluorobenzene	10.253	168	210813	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.168	114	329563	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	303017	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.091	152	182091	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.284	113	100592	48.86 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.72%		
47) 1,2-dichloroethane-d4 (s)	10.708	65	123151	49.54 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 99.08%		
77) toluene-d8 (s)	12.877	98	397128	49.72 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 99.44%		
101) 4-bromofluorobenzene (s)	15.789	95	161756	48.90 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.80%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.889	88	24757	1086.12 ug/L	96
3) tertiary butyl alcohol	8.141	59	67631	264.78 ug/L	89
6) chlorodifluoromethane	4.565	51	128155	55.61 ug/L	99
7) dichlorodifluoromethane	4.549	85	141463	50.10 ug/L	99
8) chloromethane	4.910	50	154512	49.14 ug/L	98
9) vinyl chloride	5.192	62	162787	51.03 ug/L	98
10) bromomethane	5.846	94	90461	50.64 ug/L	98
11) chloroethane	6.034	64	91031	50.77 ug/L	99
13) trichlorofluoromethane	6.562	101	187939	55.52 ug/L	99
15) ethyl ether	6.954	74	71758	47.78 ug/L	100
16) acrolein	7.184	56	274890	457.34 ug/L	99
18) 2-chloropropane	7.153	43	214875	48.63 ug/L	100
19) 1,1-dichloroethene	7.388	96	107474	50.39 ug/L	96
20) acetone	7.398	58	11925	50.56 ug/L	100
21) allyl chloride	7.895	41	254320	49.91 ug/L	99
22) acetonitrile	7.822	40	60589m	522.06 ug/L	
24) iodomethane	7.655	142	191427	50.68 ug/L	99
26) carbon disulfide	7.790	76	378697	51.60 ug/L	100
27) methylene chloride	8.068	84	122703	46.79 ug/L	96
28) 1-chloropropane	8.130	42	212189	47.97 ug/L	100
29) methyl acetate	7.869	43	110723	49.90 ug/L	99
30) methyl tert butyl ether	8.439	73	354727	49.65 ug/L	99
31) trans-1,2-dichloroethene	8.460	96	113034	50.93 ug/L	98
32) di-isopropyl ether	9.029	45	397748	52.83 ug/L	100
33) ethyl tert-butyl ether	9.490	59	402347	53.53 ug/L	98
34) 2-butanone	9.693	72	15006	49.88 ug/L #	97
35) 1,1-dichloroethane	9.014	63	207172	52.23 ug/L	98
36) chloroprene	9.129	53	181083	57.46 ug/L	98
37) acrylonitrile	8.371	53	245479	250.90 ug/L	98
38) vinyl acetate	8.993	86	24149	50.71 ug/L	99
39) ethyl acetate	9.725	45	16951	46.79 ug/L	84
40) 2,2-dichloropropane	9.767	77	169318	57.94 ug/L	99
41) cis-1,2-dichloroethene	9.730	96	126423	53.39 ug/L	98
42) propionitrile	9.772	54	186201	482.99 ug/L	96
43) bromochloromethane	10.033	128	57134	50.13 ug/L	94
44) tetrahydrofuran	10.096	72	16398	45.31 ug/L	95
45) chloroform	10.091	83	190067	52.08 ug/L	99
48) freon 113	7.367	151	84718	56.69 ug/L	96
49) methacrylonitrile	9.971	41	75499	45.66 ug/L	99
50) t-butyl formate	10.159	59	121235	51.13 ug/L	98
51) 1,1,1-trichloroethane	10.378	97	169664	53.06 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205467.D
Acq On : 14 Feb 2013 2:58 pm
Operator : EmilyT
Sample : jb28044-7ms
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 16:02:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.865	73	380407	51.15 ug/L	98
54) cyclohexane	10.478	84	182836	53.56 ug/L	98
56) 2,2,4-trimethylpentane	10.865	57	490984	59.84 ug/L	99
57) epichlorohydrin	12.428	57	70642	252.58 ug/L	96
58) n-butyl alcohol	11.251	56	173783	2050.63 ug/L	98
59) carbon tetrachloride	10.593	117	150411	53.03 ug/L	98
60) 1,1-dichloropropene	10.551	75	153319	52.30 ug/L	99
61) hexane	8.794	57	156259	57.92 ug/L	99
62) benzene	10.812	78	441221	50.53 ug/L	99
63) heptane	11.011	57	93373	61.69 ug/L	99
64) isopropyl acetate	10.723	43	228865	47.95 ug/L	99
65) 1,2-dichloroethane	10.797	62	151070	51.49 ug/L	99
67) trichloroethene	11.518	95	110742	51.50 ug/L	99
68) 2-nitropropane	12.313	43	310345	48.21 ug/L	99
69) 2-chloroethyl vinyl ether	12.313	63	409958	250.23 ug/L	99
70) methyl methacrylate	11.785	100	30783	47.71 ug/L	87
72) 1,2-dichloropropane	11.785	63	119509	50.88 ug/L	98
73) methylcyclohexane	11.785	83	213306	58.64 ug/L	100
74) dibromomethane	11.926	93	69275	50.17 ug/L	98
75) bromodichloromethane	12.056	83	145110	50.85 ug/L	99
76) cis-1,3-dichloropropene	12.543	75	189505	51.22 ug/L	98
78) 4-methyl-2-pentanone	12.658	58	49234	47.98 ug/L	97
79) toluene	12.956	92	270829	49.76 ug/L	100
80) 3-methyl-1-butanol	12.642	70	71743	904.95 ug/L	100
81) trans-1,3-dichloropropene	13.128	75	178099	51.00 ug/L	98
82) ethyl methacrylate	13.144	69	159959	48.97 ug/L	99
83) 1,1,2-trichloroethane	13.358	83	83659	48.60 ug/L	98
84) 2-hexanone	13.562	58	45306	48.44 ug/L	98
86) tetrachloroethene	13.588	166	270590	109.09 ug/L	97
87) 1,3-dichloropropane	13.562	76	179878	49.49 ug/L	99
88) butyl acetate	13.651	56	81316	50.80 ug/L	96
89) 3,3-dimethyl-1-butanol	13.735	57	128042	445.88 ug/L	98
90) dibromochloromethane	13.844	129	113739	49.27 ug/L	99
91) 1,2-dibromoethane	14.022	107	107348	50.18 ug/L	98
92) chlorobenzene	14.545	112	303555	49.32 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.603	131	112773	49.52 ug/L	99
94) ethylbenzene	14.613	91	528095	49.35 ug/L	99
95) m,p-xylene	14.733	106	408924	95.90 ug/L	100
96) o-xylene	15.199	106	204226	48.26 ug/L	98
97) styrene	15.199	104	354852	49.80 ug/L	100
98) bromoform	15.465	173	85754	47.97 ug/L	97
100) isopropylbenzene	15.580	105	544463	50.04 ug/L	98
102) bromobenzene	16.014	156	143602	48.57 ug/L	98
103) cyclohexanone	15.742	55	36686	435.09 ug/L	99
104) 1,1,2,2-tetrachloroethane	15.878	83	147181	43.87 ug/L	98
105) trans-1,4-dichloro-2-b...	15.930	53	46784	51.11 ug/L	97
106) 1,2,3-trichloropropane	15.967	110	42275	44.38 ug/L	89
107) n-propylbenzene	16.040	91	640949	49.44 ug/L	99
109) 2-chlorotoluene	16.192	126	132720	49.12 ug/L	99
110) 4-chlorotoluene	16.302	91	410363	48.49 ug/L	100
111) 1,3,5-trimethylbenzene	16.208	105	480248	47.49 ug/L	100
112) tert-butylbenzene	16.605	119	407726	48.03 ug/L	99
113) pentachloroethane	16.673	167	92700	48.98 ug/L	100
114) 1,2,4-trimethylbenzene	16.647	105	487985	47.47 ug/L	99
115) sec-butylbenzene	16.840	105	623675	49.88 ug/L	98
116) 1,3-dichlorobenzene	17.034	146	277394	47.57 ug/L	99
117) p-isopropyltoluene	16.971	119	515684	49.80 ug/L	99
118) 1,4-dichlorobenzene	17.122	146	289108	47.50 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205467.D
Acq On : 14 Feb 2013 2:58 pm
Operator : EmilyT
Sample : jb28044-7ms
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 16:02:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.243	91	324366	58.28 ug/L	100
121) 1,2-dichlorobenzene	17.556	146	274217	46.27 ug/L	99
122) n-butylbenzene	17.431	92	278382	48.94 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.398	75	27072	41.57 ug/L	98
125) 1,3,5-trichlorobenzene	18.639	180	221886	49.10 ug/L	99
126) 1,2,4-trichlorobenzene	19.365	180	180709	49.33 ug/L	99
127) hexachlorobutadiene	19.517	225	105110	49.26 ug/L	96
128) naphthalene	19.684	128	356319	44.22 ug/L	99
129) 1,2,3-trichlorobenzene	19.966	180	132159	44.82 ug/L	96
130) hexachloroethane	17.865	119	95038	48.48 ug/L	99

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

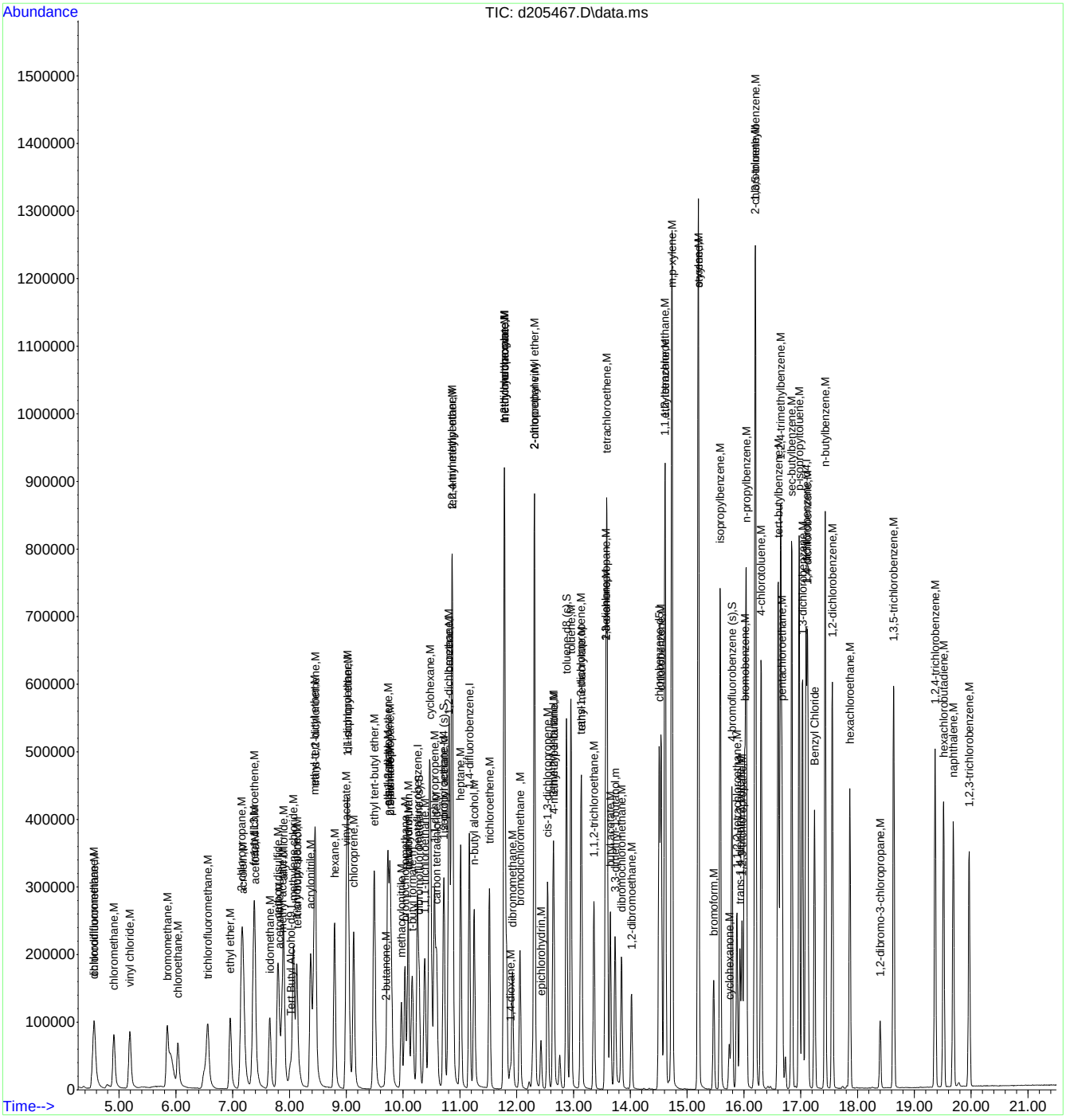
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205467.D
Acq On : 14 Feb 2013 2:58 pm
Operator : EmilyT
Sample : jb28044-7ms
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 16:02:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration



Manual Integration Approval Summary

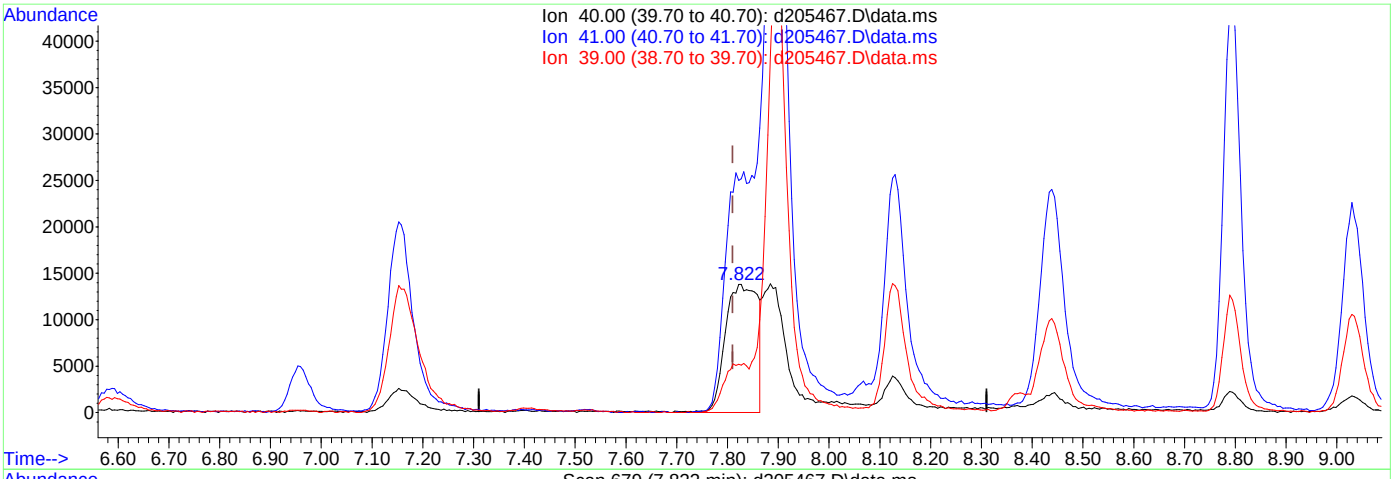
Sample Number:	JB28044-7MS	**Method:**	SW846 8260B
Lab FileID:	D205467.D	**Analyst approved:**	02/15/13 12:44 Ying Li
Injection Time:	02/14/13 14:58	**Supervisor approved:**	02/18/13 02:35 Kanya Veerawat

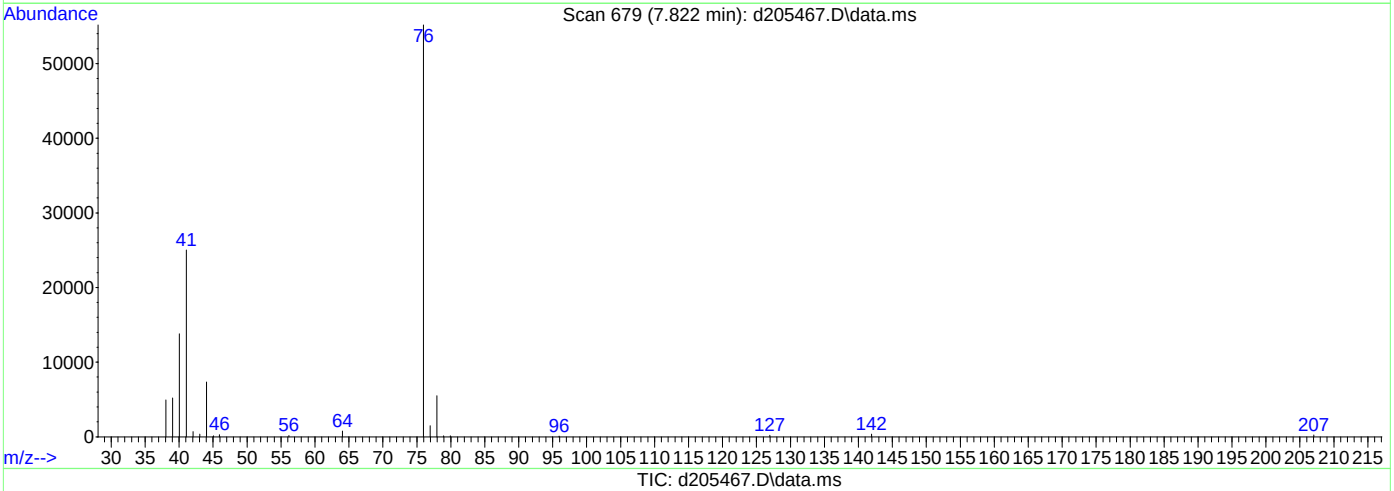
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205467.D
Acq On    : 14 Feb 2013   2:58 pm
Operator  : EmilyT
Sample    : jb28044-7ms
Misc      : ms43161,vd8383,5.3,,100,5,1
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Feb 14 16:00:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration
```





TIC: d205467.D\data.ms

(22) acetonitrile (M)

7.822min (+0.012) 522.06ug/L m

response 60589

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	181.07
39.00	37.10	37.62
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/18/13 02:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205468.D
Acq On : 14 Feb 2013 3:27 pm
Operator : EmilyT
Sample : jb28044-7msd
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 16:02:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.024	65	126857	500.00 ug/L	0.01
4) pentafluorobenzene	10.252	168	210647	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.166	114	325613	50.00 ug/L	0.00
85) chlorobenzene-d5	14.507	117	297423	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	179917	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.283	113	99029	48.14 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.28%		
47) 1,2-dichloroethane-d4 (s)	10.706	65	121270	48.82 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.64%		
77) toluene-d8 (s)	12.876	98	390536	49.49 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.98%		
101) 4-bromofluorobenzene (s)	15.788	95	160842	49.21 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.42%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.883	88	24326	1008.42 ug/L	97
3) tertiary butyl alcohol	8.145	59	67515	249.77 ug/L #	69
6) chlorodifluoromethane	4.564	51	133484	57.96 ug/L	98
7) dichlorodifluoromethane	4.543	85	148251	52.54 ug/L	98
8) chloromethane	4.909	50	148714	47.33 ug/L	99
9) vinyl chloride	5.191	62	164636	51.65 ug/L	99
10) bromomethane	5.850	94	89415	50.10 ug/L	98
11) chloroethane	6.038	64	91973	51.34 ug/L	98
13) trichlorofluoromethane	6.555	101	193588	57.24 ug/L	99
15) ethyl ether	6.958	74	73440	48.94 ug/L	96
16) acrolein	7.178	56	280621	467.24 ug/L	98
18) 2-chloropropane	7.151	43	218199	49.42 ug/L	99
19) 1,1-dichloroethene	7.387	96	110603	51.90 ug/L	95
20) acetone	7.397	58	11969	50.79 ug/L	87
21) allyl chloride	7.894	41	249090	48.92 ug/L	98
22) acetonitrile	7.815	40	60149m	518.68 ug/L	
24) iodomethane	7.653	142	195290	51.75 ug/L	99
26) carbon disulfide	7.794	76	393973	53.72 ug/L	100
27) methylene chloride	8.072	84	125238	47.79 ug/L	96
28) 1-chloropropane	8.129	42	221862	50.20 ug/L	98
29) methyl acetate	7.868	43	111904	50.48 ug/L	99
30) methyl tert butyl ether	8.437	73	362808	50.82 ug/L	99
31) trans-1,2-dichloroethene	8.458	96	115530	52.09 ug/L	99
32) di-isopropyl ether	9.028	45	402092	53.45 ug/L	98
33) ethyl tert-butyl ether	9.494	59	405959	54.06 ug/L	99
34) 2-butanone	9.692	72	15358	51.09 ug/L #	93
35) 1,1-dichloroethane	9.013	63	212243	53.55 ug/L	99
36) chloroprene	9.128	53	183297	58.20 ug/L	98
37) acrylonitrile	8.370	53	252414	258.19 ug/L	99
38) vinyl acetate	8.997	86	24284	51.04 ug/L	96
39) ethyl acetate	9.724	45	18127	50.07 ug/L	88
40) 2,2-dichloropropane	9.765	77	174093	59.62 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	128930	54.49 ug/L	98
42) propionitrile	9.771	54	191875	498.10 ug/L	96
43) bromochloromethane	10.032	128	58075	50.99 ug/L	93
44) tetrahydrofuran	10.089	72	16866	46.64 ug/L	92
45) chloroform	10.089	83	192362	52.75 ug/L	99
48) freon 113	7.366	151	87620	58.67 ug/L	96
49) methacrylonitrile	9.969	41	76653	46.39 ug/L	98
50) t-butyl formate	10.163	59	123955	52.32 ug/L	99
51) 1,1,1-trichloroethane	10.382	97	175108	54.80 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205468.D
Acq On : 14 Feb 2013 3:27 pm
Operator : EmilyT
Sample : jb28044-7msd
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 16:02:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) tert-amyl methyl ether	10.863	73	383666	51.63 ug/L	98
54) cyclohexane	10.476	84	190374	56.44 ug/L	99
56) 2,2,4-trimethylpentane	10.863	57	506846	62.53 ug/L	98
57) epichlorohydrin	12.426	57	69982	253.26 ug/L	94
58) n-butyl alcohol	11.250	56	186262	2224.54 ug/L	99
59) carbon tetrachloride	10.586	117	154456	55.12 ug/L	98
60) 1,1-dichloropropene	10.550	75	156334	53.97 ug/L	99
61) hexane	8.793	57	157787	59.20 ug/L	98
62) benzene	10.811	78	447647	51.89 ug/L	100
63) heptane	11.015	57	94754	63.37 ug/L	99
64) isopropyl acetate	10.722	43	232549	49.31 ug/L	99
65) 1,2-dichloroethane	10.795	62	152333	52.55 ug/L	99
67) trichloroethene	11.517	95	112969	53.18 ug/L	97
68) 2-nitropropane	12.311	43	316343	49.73 ug/L	100
69) 2-chloroethyl vinyl ether	12.311	63	416124	257.07 ug/L	99
70) methyl methacrylate	11.783	100	32400	50.83 ug/L #	86
72) 1,2-dichloropropane	11.783	63	121642	52.41 ug/L	100
73) methylcyclohexane	11.783	83	218525	60.81 ug/L	99
74) dibromomethane	11.925	93	70962	52.01 ug/L	97
75) bromodichloromethane	12.055	83	148783	52.77 ug/L	98
76) cis-1,3-dichloropropene	12.541	75	192082	52.55 ug/L	98
78) 4-methyl-2-pentanone	12.656	58	50320	49.63 ug/L	98
79) toluene	12.954	92	277324	51.57 ug/L	97
80) 3-methyl-1-butanol	12.641	70	74699	953.66 ug/L	99
81) trans-1,3-dichloropropene	13.127	75	180519	52.32 ug/L	96
82) ethyl methacrylate	13.143	69	165418	51.26 ug/L	100
83) 1,1,2-trichloroethane	13.362	83	86130	50.64 ug/L	100
84) 2-hexanone	13.561	58	46541	50.37 ug/L	98
86) tetrachloroethene	13.587	166	276159	113.43 ug/L	98
87) 1,3-dichloropropane	13.561	76	181707	50.94 ug/L	100
88) butyl acetate	13.650	56	84544	53.81 ug/L	98
89) 3,3-dimethyl-1-butanol	13.733	57	133096	472.19 ug/L	99
90) dibromochloromethane	13.843	129	115739	51.08 ug/L	98
91) 1,2-dibromoethane	14.021	107	108923	51.87 ug/L	99
92) chlorobenzene	14.544	112	308796	51.12 ug/L	100
93) 1,1,1,2-tetrachloroethane	14.607	131	115398	51.62 ug/L	98
94) ethylbenzene	14.617	91	539175	51.33 ug/L	99
95) m,p-xylene	14.732	106	417102	99.66 ug/L	99
96) o-xylene	15.197	106	207003	49.84 ug/L	99
97) styrene	15.197	104	360094	51.49 ug/L	99
98) bromoform	15.469	173	89732	51.14 ug/L	97
100) isopropylbenzene	15.584	105	554372	51.57 ug/L	99
102) bromobenzene	16.013	156	144944	49.61 ug/L	98
103) cyclohexanone	15.741	55	39071	468.97 ug/L	98
104) 1,1,2,2-tetrachloroethane	15.877	83	151099	45.58 ug/L	99
105) trans-1,4-dichloro-2-b...	15.929	53	48137	53.22 ug/L	96
106) 1,2,3-trichloropropane	15.971	110	44170	46.93 ug/L	90
107) n-propylbenzene	16.039	91	655626	51.18 ug/L	99
109) 2-chlorotoluene	16.196	126	134747	50.48 ug/L	95
110) 4-chlorotoluene	16.306	91	420046	50.23 ug/L	99
111) 1,3,5-trimethylbenzene	16.206	105	486030	48.64 ug/L	100
112) tert-butylbenzene	16.604	119	419860	50.06 ug/L	98
113) pentachloroethane	16.672	167	94462	50.51 ug/L	98
114) 1,2,4-trimethylbenzene	16.645	105	495455	48.78 ug/L	99
115) sec-butylbenzene	16.844	105	636182	51.50 ug/L	99
116) 1,3-dichlorobenzene	17.032	146	282747	49.07 ug/L	99
117) p-isopropyltoluene	16.975	119	524413	51.25 ug/L	99
118) 1,4-dichlorobenzene	17.121	146	293731	48.84 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205468.D
Acq On : 14 Feb 2013 3:27 pm
Operator : EmilyT
Sample : jb28044-7msd
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 16:02:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
119) Benzyl Chloride	17.241	91	331327	60.25 ug/L	100
121) 1,2-dichlorobenzene	17.555	146	280713	47.94 ug/L	99
122) n-butylbenzene	17.430	92	285913	50.87 ug/L	99
124) 1,2-dibromo-3-chloropr...	18.397	75	28548	44.37 ug/L	96
125) 1,3,5-trichlorobenzene	18.637	180	225273	50.45 ug/L	99
126) 1,2,4-trichlorobenzene	19.364	180	181421	50.12 ug/L	98
127) hexachlorobutadiene	19.516	225	107219	50.86 ug/L	97
128) naphthalene	19.688	128	364891	45.83 ug/L	99
129) 1,2,3-trichlorobenzene	19.965	180	135798	46.61 ug/L	97
130) hexachloroethane	17.864	119	96944	50.05 ug/L	99

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

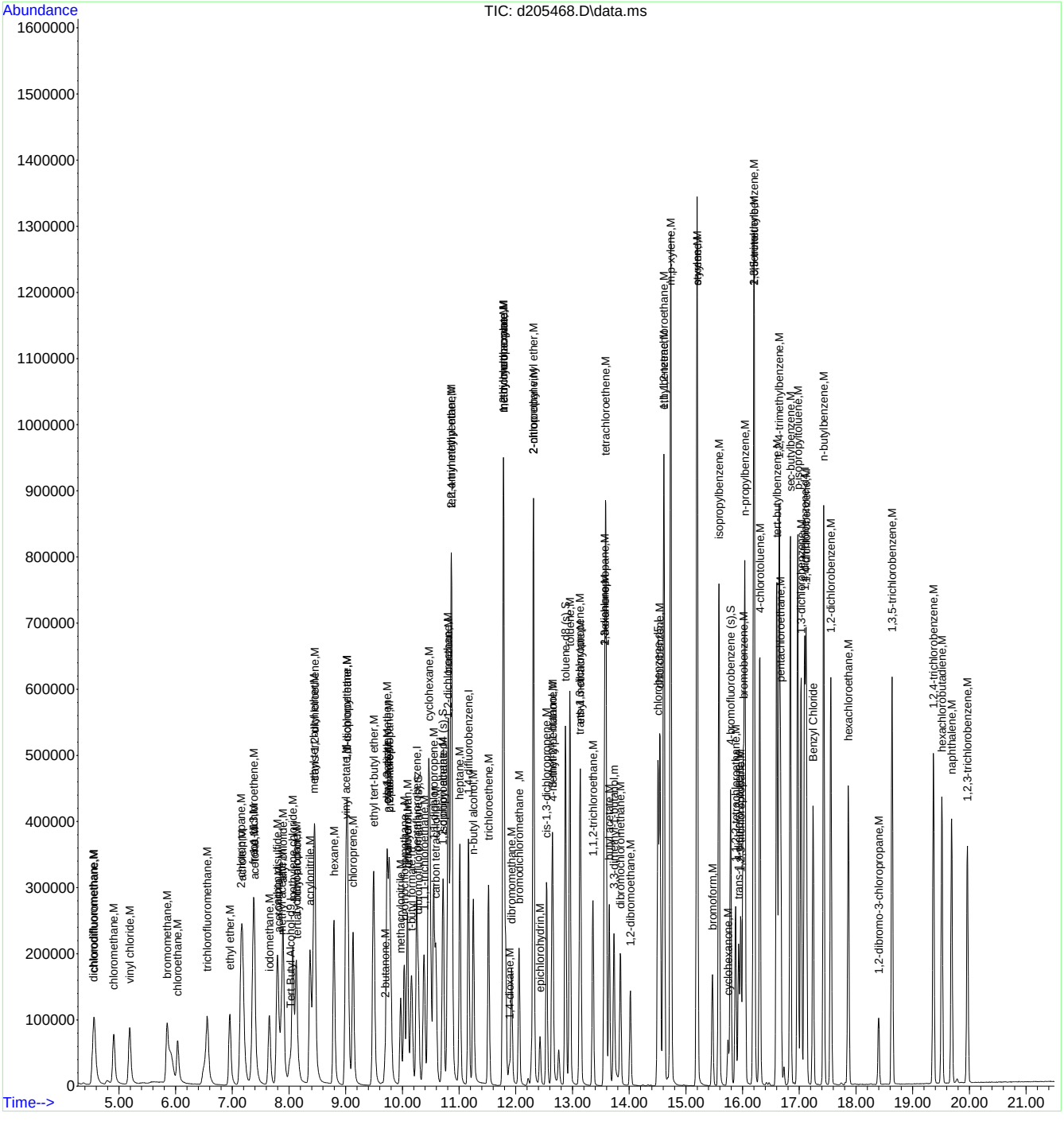
7.4.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205468.D
Acq On : 14 Feb 2013 3:27 pm
Operator : EmilyT
Sample : jb28044-7msd
Misc : ms43161,vd8383,5.3,,100,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 16:02:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	JB28044-7MSD	**Method:**	SW846 8260B
Lab FileID:	D205468.D	**Analyst approved:**	02/15/13 12:44 Ying Li
Injection Time:	02/14/13 15:27	**Supervisor approved:**	02/18/13 02:35 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 : d205468.D
Acq On    : 14 Feb 2013   3:27 pm
Operator  : EmilyT
Sample    : jb28044-7msd
Misc      : ms43161,vd8383,5.3,,100,5,1
ALS Vial  : 14   Sample Multiplier: 1

Quant Time: Feb 14 16:01:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\MD8379.M
Quant Title  : SW-846 Method 8260B
QLast Update : Thu Feb 14 15:55:07 2013
Response via : Initial Calibration
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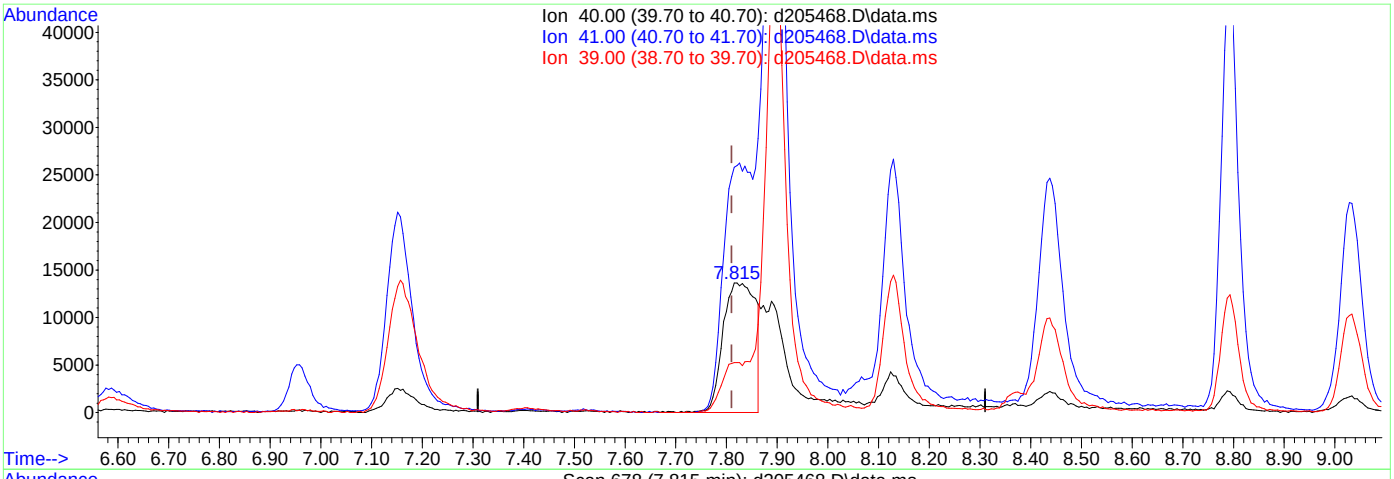
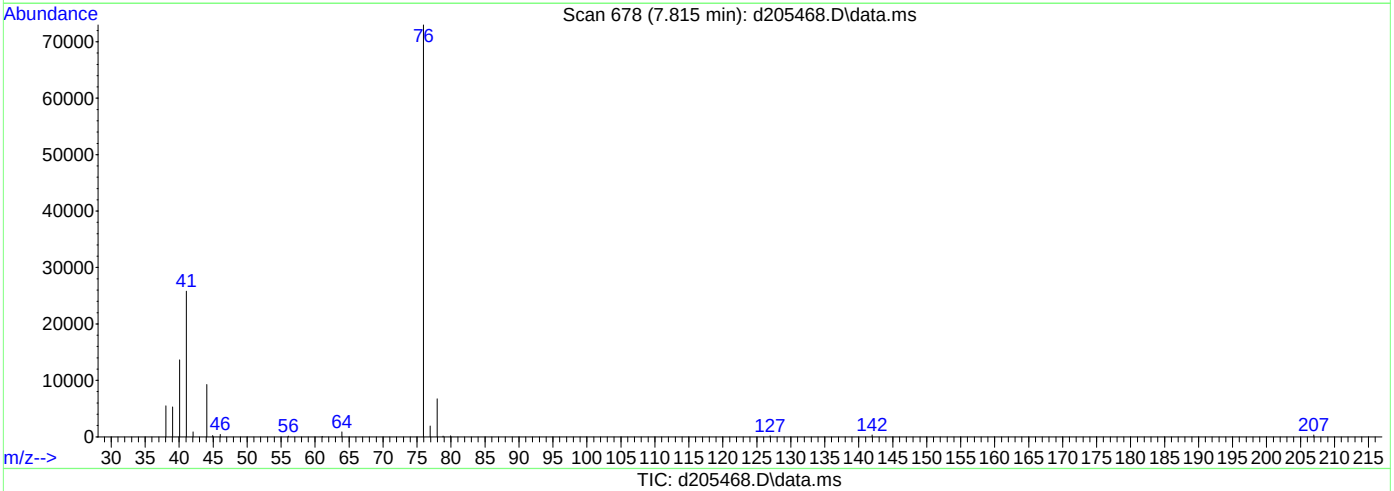




TIC: d205468.D\data.ms

(22) acetonitrile (M)

7.815min (+0.005) 518.68ug/L m

response 60149

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	189.21
39.00	37.10	38.66
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181548.D
Acq On : 15 Feb 2013 11:03 pm
Operator : SCOTTM
Sample : JB28636-4ms,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 23:26:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.212	65	91230	50.00	ug/L	-0.01
5) pentafluorobenzene	9.471	168	188499	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.392	114	302800	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	227840	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	113471	50.00	ug/L	-0.01

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.513	113	92005	49.68	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.36%			
47) 1,2-dichloroethane-d4...	9.937	65	130255	54.25	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 108.50%			
76) toluene-d8 (s)	12.045	98	360045	53.02	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.04%			
91) 4-bromofluorobenzene (s)	14.717	95	129402	56.90	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 113.80%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.332	59	51525	219.47	ug/L	97
3) iso-butyl alcohol	10.015	74	30934	408.91	ug/L #	1
4) 1,4-dioxane	11.114	88	20041	1412.95	ug/L	83
6) chlorodifluoromethane	3.791	51	146963	57.17	ug/L	98
7) dichlorodifluoromethane	3.770	85	135410	46.80	ug/L	99
8) chloromethane	4.121	50	162416	54.14	ug/L	99
9) vinyl chloride	4.377	62	127153	45.87	ug/L	100
10) bromomethane	5.026	94	52235	39.21	ug/L	97
11) chloroethane	5.209	64	50861	46.16	ug/L	91
12) trichlorofluoromethane	5.669	101	126125	45.78	ug/L	99
13) ethyl ether	6.087	74	40333	37.10	ug/L	81
14) acrolein	6.338	56	37288	118.91	ug/L	99
15) freon 113	6.485	151	57980	40.72	ug/L	89
16) 1,1-dichloroethene	6.506	61	177568	51.41	ug/L	92
17) acetone	6.553	58	6444	44.89	ug/L #	74
18) iodomethane	6.778	142	117786	36.74	ug/L #	59
19) carbon disulfide	6.903	76	316107	44.09	ug/L	94
20) methyl acetate	7.044	74	10493	40.75	ug/L #	65
21) allyl chloride	7.044	76	50557	41.38	ug/L #	61
22) acetonitrile	7.044	41	330907	529.21	ug/L	97
23) methylene chloride	7.238	84	81821	38.07	ug/L #	81
24) methyl tert butyl ether	7.578	73	237210	41.06	ug/L	92
25) acrylonitrile	7.567	53	123708	214.82	ug/L	96
26) trans-1,2-dichloroethene	7.620	96	79702	39.61	ug/L	78
28) di-isopropyl ether	8.185	45	390036	49.28	ug/L	89
30) 1,1-dichloroethane	8.195	63	191261	47.22	ug/L	99
31) chloroprene	8.305	53	179753	50.14	ug/L	91
32) ethyl tert-butyl ether	8.655	59	337895	47.02	ug/L	96
33) 2-butanone	8.912	72	7079	41.05	ug/L	45
34) ethyl acetate	8.943	45	11365	44.25	ug/L #	5
35) 2,2-dichloropropane	8.948	77	153023	42.70	ug/L	96
36) cis-1,2-dichloroethene	8.943	96	82963	38.30	ug/L #	76
37) methacrylonitrile	9.194	67	25568	39.45	ug/L #	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181548.D
Acq On : 15 Feb 2013 11:03 pm
Operator : SCOTTM
Sample : JB28636-4ms,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 23:26:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.006	54	98232	458.01	ug/L		85
39) bromochloromethane	9.257	128	32058	37.44	ug/L	#	74
40) tetrahydrofuran	9.293	42	31258	47.99	ug/L		90
41) chloroform	9.314	83	163362	43.58	ug/L		95
42) tert-Butyl Formate	9.346	59	68790	38.81	ug/L	#	85
44) 1,1,1-trichloroethane	9.565	97	150633	46.84	ug/L		97
45) cyclohexane	9.639	84	131475	41.79	ug/L		92
48) carbon tetrachloride	9.775	117	128270	44.83	ug/L		99
49) 1,1-dichloropropene	9.749	75	134149	42.36	ug/L		94
50) isopropyl acetate	9.947	61	31408	44.37	ug/L		94
51) benzene	10.010	78	356059	40.44	ug/L		97
53) tert-amyl methyl ether	10.052	73	263650	41.12	ug/L		93
54) 1,2-dichloroethane	10.026	62	135820	47.44	ug/L		98
56) n-butyl alcohol	10.523	56	122988	2703.03	ug/L		87
57) trichloroethene	10.737	95	86260	38.87	ug/L		95
59) methyl methacrylate	11.009	69	43182	39.03	ug/L	#	82
60) 1,2-dichloropropane	10.999	63	98160	42.32	ug/L		97
61) methylcyclohexane	10.957	83	152360	39.06	ug/L		89
62) dibromomethane	11.161	93	43762	38.43	ug/L		95
63) bromodichloromethane	11.291	83	111522	39.89	ug/L		100
64) 2-nitropropane	11.511	41	33336	56.13	ug/L	#	80
65) 2-chloroethyl vinyl ether	11.537	63	147223	288.58	ug/L		97
66) epichlorohydrin	11.658	57	30754	197.97	ug/L	#	95
67) cis-1,3-dichloropropene	11.752	75	131393	37.29	ug/L		84
68) 4-methyl-2-pentanone	11.851	58	24725	40.66	ug/L	#	77
69) 3-methyl-1-butanol	11.872	70	33170	849.90	ug/L	#	76
70) toluene	12.118	91	344005	38.88	ug/L		98
71) trans-1,3-dichloropropene	12.317	75	111663	37.35	ug/L	#	73
72) ethyl methacrylate	12.317	69	76648	38.80	ug/L		88
73) 1,1,2-trichloroethane	12.531	83	48429	37.28	ug/L		93
74) 2-hexanone	12.704	58	19463	39.47	ug/L	#	83
77) tetrachloroethene	12.704	166	78349	39.97	ug/L		93
78) 1,3-dichloropropane	12.709	76	96131	40.96	ug/L		98
79) butyl acetate	12.782	56	38503	44.00	ug/L		93
80) 3,3-Dimethyl-1-Butanol	12.876	57	57195	449.11	ug/L		97
81) dibromochloromethane	12.976	129	62138	39.25	ug/L		100
82) 1,2-dibromoethane	13.122	107	51092	38.27	ug/L		98
83) chlorobenzene	13.588	112	174753	35.81	ug/L		94
84) 1,1,1,2-tetrachloroethane	13.650	131	65575	39.52	ug/L		100
85) ethylbenzene	13.645	91	331684	36.99	ug/L		98
86) m,p-xylene	13.755	106	234523	69.70	ug/L		91
87) o-xylene	14.173	106	114976	36.11	ug/L		86
88) styrene	14.184	104	177495	33.84	ug/L		93
89) bromoform	14.445	173	34023	36.31	ug/L		99
92) isopropylbenzene	14.519	105	306885	40.44	ug/L		95
93) cyclohexanone	14.681	55	20159	477.53	ug/L		90
94) 1,1,2,2-tetrachloroethane	14.827	83	68205	43.37	ug/L		97
95) trans-1,4-dichloro-2-b...	14.869	53	20124	41.63	ug/L		81
96) 1,2,3-trichloropropane	14.900	110	14075	42.27	ug/L		95
97) n-propylbenzene	14.932	91	353717	38.34	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181548.D
Acq On : 15 Feb 2013 11:03 pm
Operator : SCOTTM
Sample : JB28636-4ms,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 23:26:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

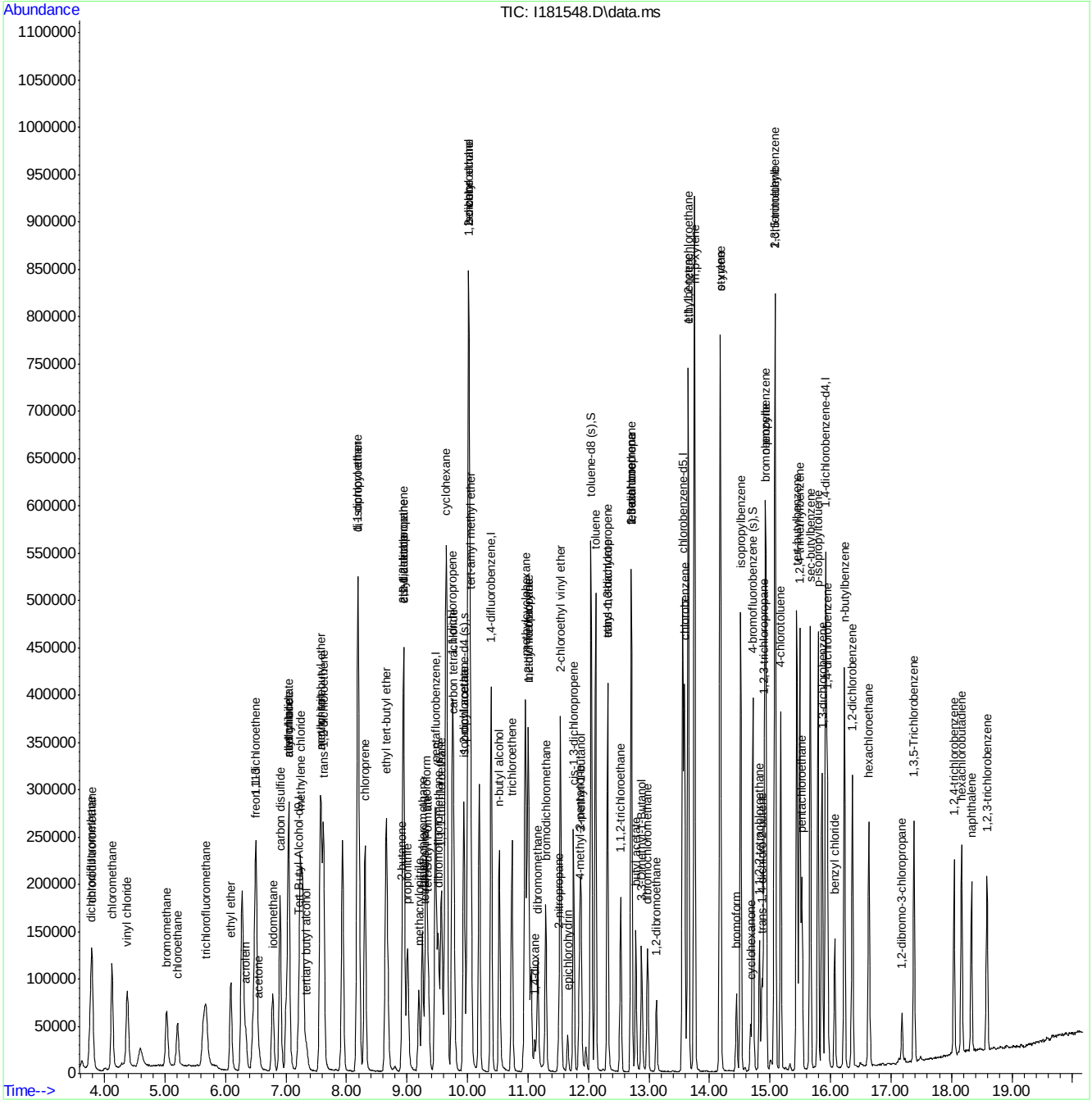
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) bromobenzene	14.916	156	62064	33.75 ug/L #	78
99) 2-chlorotoluene	15.078	126	66483	36.73 ug/L	94
100) 4-chlorotoluene	15.178	91	209098	36.13 ug/L	96
101) 1,3,5-trimethylbenzene	15.089	105	252359	38.75 ug/L	98
102) tert-butylbenzene	15.444	119	217513	39.67 ug/L	92
103) pentachloroethane	15.528	167	35995	35.33 ug/L	91
104) 1,2,4-trimethylbenzene	15.491	105	240814	36.68 ug/L	97
105) sec-butylbenzene	15.669	105	328983	39.23 ug/L	98
106) p-isopropyltoluene	15.795	119	252601	36.10 ug/l	95
107) benzyl chloride	16.072	91	90931	31.65 ug/L	95
108) 1,3-dichlorobenzene	15.863	146	110403	30.47 ug/L	97
109) 1,4-dichlorobenzene	15.946	146	110536	30.15 ug/L	96
110) 1,2-dichlorobenzene	16.360	146	107462	31.14 ug/L	97
111) n-butylbenzene	16.229	92	126482	32.50 ug/L	98
112) hexachloroethane	16.637	119	54994	41.46 ug/L	98
113) 1,2-dibromo-3-chloropr...	17.181	157	10894	39.38 ug/L #	80
114) 1,3,5-Trichlorobenzene	17.379	180	72913	24.16 ug/L	99
115) 1,2,4-trichlorobenzene	18.044	180	55756	22.54 ug/L	99
116) hexachlorobutadiene	18.169	225	48305	28.92 ug/L	99
117) naphthalene	18.331	128	125505	31.42 ug/L	98
118) 1,2,3-trichlorobenzene	18.588	180	52460	25.55 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181548.D
Acq On : 15 Feb 2013 11:03 pm
Operator : SCOTTM
Sample : JB28636-4ms,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 15 23:26:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181549.D
Acq On : 15 Feb 2013 11:32 pm
Operator : SCOTTM
Sample : JB28636-4msd,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 23:55:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	92235	50.00	ug/L	0.00
5) pentafluorobenzene	9.476	168	189626	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	306191	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	232743	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	115086	50.00	ug/L	-0.01

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.518	113	95166	51.08	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.16%			
47) 1,2-dichloroethane-d4...	9.937	65	136151	56.07	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 112.14%			
76) toluene-d8 (s)	12.044	98	367892	53.03	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.06%			
91) 4-bromofluorobenzene (s)	14.717	95	133505	57.88	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 115.76%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.337	59	59232	249.54	ug/L	97
3) iso-butyl alcohol	10.015	74	32315	422.51	ug/L #	1
4) 1,4-dioxane	11.119	88	22347	1558.37	ug/L	90
6) chlorodifluoromethane	3.796	51	144550	55.90	ug/L	97
7) dichlorodifluoromethane	3.775	85	135902	46.70	ug/L	96
8) chloromethane	4.126	50	156078	51.72	ug/L	97
9) vinyl chloride	4.382	62	121885	43.71	ug/L	98
10) bromomethane	5.031	94	52735	39.35	ug/L	97
11) chloroethane	5.208	64	50328	45.41	ug/L	91
12) trichlorofluoromethane	5.669	101	121007	43.67	ug/L	96
13) ethyl ether	6.092	74	43945	40.18	ug/L #	79
14) acrolein	6.338	56	39414	124.94	ug/L	97
15) freon 113	6.490	151	56820	39.67	ug/L	90
16) 1,1-dichloroethene	6.506	61	176760	50.87	ug/L	92
17) acetone	6.563	58	7249	50.20	ug/L #	75
18) iodomethane	6.783	142	118301	36.68	ug/L	92
19) carbon disulfide	6.908	76	314599	43.62	ug/L	94
20) methyl acetate	7.044	74	11356	43.84	ug/L #	51
21) allyl chloride	7.044	76	51384	41.81	ug/L #	55
22) acetonitrile	7.050	41	350619	557.40	ug/L	96
23) methylene chloride	7.243	84	86765	40.14	ug/L #	80
24) methyl tert butyl ether	7.583	73	258710	44.52	ug/L	90
25) acrylonitrile	7.573	53	141300	243.91	ug/L	97
26) trans-1,2-dichloroethene	7.625	96	81477	40.26	ug/L	83
28) di-isopropyl ether	8.190	45	422934	53.12	ug/L	92
30) 1,1-dichloroethane	8.200	63	198307	48.67	ug/L	99
31) chloroprene	8.305	53	181033	50.19	ug/L	91
32) ethyl tert-butyl ether	8.660	59	366048	50.64	ug/L	93
33) 2-butanone	8.917	72	8039	46.34	ug/L	39
34) ethyl acetate	8.938	45	13953	54.01	ug/L	53
35) 2,2-dichloropropane	8.948	77	149972	41.60	ug/L	98
36) cis-1,2-dichloroethene	8.943	96	86049	39.48	ug/L #	79
37) methacrylonitrile	9.194	67	28634	43.92	ug/L #	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181549.D
Acq On : 15 Feb 2013 11:32 pm
Operator : SCOTTM
Sample : JB28636-4msd,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 23:55:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.006	54	111918	518.72	ug/L		80
39) bromochloromethane	9.257	128	34849	40.46	ug/L	#	75
40) tetrahydrofuran	9.293	42	34395	52.49	ug/L		91
41) chloroform	9.319	83	168293	44.63	ug/L		94
42) tert-Butyl Formate	9.346	59	68363	38.34	ug/L	#	86
44) 1,1,1-trichloroethane	9.570	97	149573	46.23	ug/L		96
45) cyclohexane	9.644	84	126936	40.11	ug/L	#	80
48) carbon tetrachloride	9.774	117	126231	43.63	ug/L		99
49) 1,1-dichloropropene	9.754	75	134159	41.89	ug/L		95
50) isopropyl acetate	9.942	61	36364	50.80	ug/L		93
51) benzene	10.015	78	363579	40.83	ug/L		97
53) tert-amyl methyl ether	10.052	73	287265	44.30	ug/L		94
54) 1,2-dichloroethane	10.026	62	144635	49.96	ug/L		96
56) n-butyl alcohol	10.528	56	137422	2986.81	ug/L		85
57) trichloroethene	10.737	95	87640	39.06	ug/L		92
59) methyl methacrylate	11.014	69	49671	44.39	ug/L		94
60) 1,2-dichloropropane	11.004	63	104011	44.35	ug/L		99
61) methylcyclohexane	10.957	83	145355	36.85	ug/L		80
62) dibromomethane	11.160	93	47992	41.67	ug/L		91
63) bromodichloromethane	11.291	83	119892	42.41	ug/L		98
64) 2-nitropropane	11.511	41	36611	60.96	ug/L	#	85
65) 2-chloroethyl vinyl ether	11.537	63	156723	303.80	ug/L		96
66) epichlorohydrin	11.657	57	35454	225.69	ug/L		95
67) cis-1,3-dichloropropene	11.752	75	139518	39.16	ug/L		84
68) 4-methyl-2-pentanone	11.851	58	29140	47.39	ug/L	#	77
69) 3-methyl-1-butanol	11.872	70	38362	968.19	ug/L	#	74
70) toluene	12.118	91	359037	40.13	ug/L		98
71) trans-1,3-dichloropropene	12.316	75	121709	40.26	ug/L	#	68
72) ethyl methacrylate	12.316	69	87173	43.64	ug/L		85
73) 1,1,2-trichloroethane	12.531	83	52873	40.25	ug/L		94
74) 2-hexanone	12.703	58	23133	46.40	ug/L		89
77) tetrachloroethene	12.703	166	80525	40.22	ug/L		94
78) 1,3-dichloropropane	12.714	76	103739	43.27	ug/L		98
79) butyl acetate	12.782	56	46122	51.60	ug/L		86
80) 3,3-Dimethyl-1-Butanol	12.876	57	67701	520.41	ug/L		98
81) dibromochloromethane	12.975	129	66901	41.37	ug/L		99
82) 1,2-dibromoethane	13.127	107	55469	40.67	ug/L		99
83) chlorobenzene	13.587	112	178185	35.74	ug/L		90
84) 1,1,1,2-tetrachloroethane	13.650	131	67806	40.00	ug/L		97
85) ethylbenzene	13.645	91	329917	36.02	ug/L		97
86) m,p-xylene	13.755	106	234598	68.25	ug/L		89
87) o-xylene	14.173	106	112778	34.67	ug/L		85
88) styrene	14.184	104	183788	34.30	ug/L		94
89) bromoform	14.445	173	37451	39.13	ug/L		99
92) isopropylbenzene	14.513	105	302676	39.33	ug/L		95
93) cyclohexanone	14.680	55	23756	550.42	ug/L		88
94) 1,1,2,2-tetrachloroethane	14.827	83	75783	47.51	ug/L		99
95) trans-1,4-dichloro-2-b...	14.869	53	22632	46.16	ug/L		80
96) 1,2,3-trichloropropane	14.900	110	15878	47.01	ug/L		98
97) n-propylbenzene	14.931	91	347000	37.09	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181549.D
Acq On : 15 Feb 2013 11:32 pm
Operator : SCOTTM
Sample : JB28636-4msd,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 23:55:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

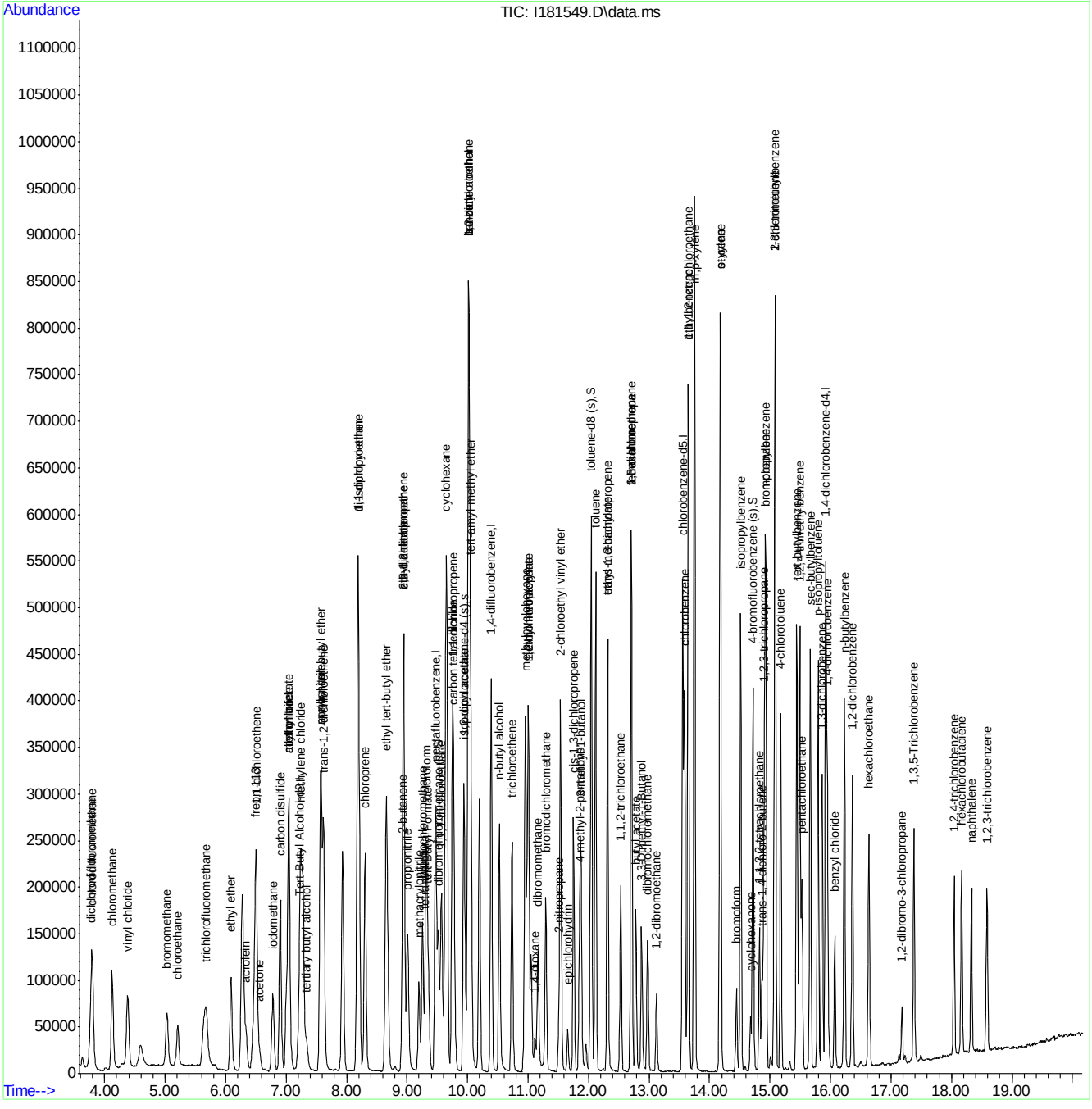
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) bromobenzene	14.916	156	63671	34.14 ug/L #	80
99) 2-chlorotoluene	15.078	126	64784	35.29 ug/L	86
100) 4-chlorotoluene	15.177	91	207487	35.35 ug/L	96
101) 1,3,5-trimethylbenzene	15.088	105	251580	38.09 ug/L	96
102) tert-butylbenzene	15.444	119	210824	37.91 ug/L	90
103) pentachloroethane	15.528	167	37623	36.41 ug/L	95
104) 1,2,4-trimethylbenzene	15.491	105	242059	36.35 ug/L	97
105) sec-butylbenzene	15.669	105	316789	37.24 ug/L	98
106) p-isopropyltoluene	15.794	119	240799	33.93 ug/l	95
107) benzyl chloride	16.072	91	95146	32.65 ug/L	95
108) 1,3-dichlorobenzene	15.857	146	108036	29.40 ug/L	95
109) 1,4-dichlorobenzene	15.946	146	107670	28.96 ug/L	98
110) 1,2-dichlorobenzene	16.359	146	104757	29.93 ug/L	97
111) n-butylbenzene	16.229	92	120582	30.49 ug/L	97
112) hexachloroethane	16.637	119	55053	40.93 ug/L	97
113) 1,2-dibromo-3-chloropr...	17.180	157	11714	41.75 ug/L #	75
114) 1,3,5-Trichlorobenzene	17.379	180	68665	22.44 ug/L	99
115) 1,2,4-trichlorobenzene	18.043	180	51983	20.72 ug/L	98
116) hexachlorobutadiene	18.169	225	42298	24.97 ug/L	99
117) naphthalene	18.331	128	122948	30.35 ug/L	96
118) 1,2,3-trichlorobenzene	18.587	180	49517	23.78 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181549.D
Acq On : 15 Feb 2013 11:32 pm
Operator : SCOTTM
Sample : JB28636-4msd,VTCL11+
Misc : MS43204,VI7333,4.6,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 15 23:55:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



MI7266.M Mon Feb 18 12:00:24 2013 RPT1 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131353.D
Acq On : 25 Feb 2013 3:37 pm
Operator : ROBERTS
Sample : JB29432-9MS
Misc : MS43682,VY5654,6.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 25 16:12:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	47823	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	112250	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	163052	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	129772	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	64537	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	45876	52.97	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.94%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	45446	51.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 103.82%			
76) toluene-d8 (s)	12.34	98	151609	53.49	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.98%			
100) 4-bromofluorobenzene (s)	14.96	95	52380	48.36	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 96.72%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.46	88	11794	1247.41	ug/L	92
3) tertiary butyl alcohol	7.76	59	26580	241.08	ug/L	96
8) chlorodifluoromethane	4.18	51	39054	45.63	ug/L	95
9) dichlorodifluoromethane	4.15	85	58250	49.07	ug/L	99
10) chloromethane	4.52	50	51595	41.94	ug/L	99
11) vinyl chloride	4.78	62	51639	47.01	ug/L	96
12) bromomethane	5.45	94	32750	46.66	ug/L	96
13) chloroethane	5.63	64	24233	48.18	ug/L	95
15) trichlorofluoromethane	6.08	101	77323	56.58	ug/L	99
16) ethyl ether	6.48	74	21091	37.85	ug/L	97
17) 2-chloropropane	6.71	63	14804	45.26	ug/L	96
18) acrolein	6.81	56	54504	336.37	ug/L	96
19) 1,1-dichloroethene	6.93	61	52332	42.78	ug/L	98
20) acetone	7.04	58	4609	65.03	ug/L #	78
21) allyl chloride	7.47	76	20786	39.89	ug/L	90
22) acetonitrile	7.52	40	22434	614.02	ug/L	90
23) iodomethane	7.23	142	66885	38.91	ug/L	99
24) iso-butyl alcohol	10.15	41	15260	513.19	ug/L	90
25) carbon disulfide	7.34	76	109764	39.91	ug/L	98
26) 1-chloropropane	7.69	63	2824	42.30	ug/L	91
27) methylene chloride	7.69	49	55709	44.68	ug/L	89
28) methyl acetate	7.47	74	6256	49.83	ug/L #	86
29) methyl tert butyl ether	7.95	73	113612	41.14	ug/L	98
30) trans-1,2-dichloroethene	8.03	61	50790	43.65	ug/L	96
31) di-isopropyl ether	8.52	45	148225	48.91	ug/L	99
32) ethyl tert-butyl ether	8.99	59	144884	48.06	ug/L	100
33) 2-butanone	9.32	72	4606	49.74	ug/L	80
34) 1,1-dichloroethane	8.61	63	65482	42.05	ug/L	98
35) chloroprene	8.69	53	56038	47.36	ug/L	98
36) acrylonitrile	8.05	53	58415	229.58	ug/L	98
37) vinyl acetate	8.58	86	5882	49.11	ug/L	73
38) ethyl acetate	9.31	45	5754	56.49	ug/L #	47
39) 2,2-dichloropropane	9.32	77	55190	42.87	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131353.D
Acq On : 25 Feb 2013 3:37 pm
Operator : ROBERTS
Sample : JB29432-9MS
Misc : MS43682,VY5654,6.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 25 16:12:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) cis-1,2-dichloroethene	9.34	96	40915	38.38	ug/L		94
41) propionitrile	9.46	54	47631	454.11	ug/L		100
42) bromochloromethane	9.66	130	28127	42.65	ug/L		99
43) tetrahydrofuran	9.68	72	4794	44.42	ug/L		89
44) chloroform	9.70	83	67548	40.13	ug/L		99
45) tert-Butyl Formate	9.72	59	36748	53.75	ug/L		97
48) freon 113	6.88	151	28999	47.96	ug/L		94
49) methacrylonitrile	9.62	67	13555	41.71	ug/L		89
50) 1,1,1-trichloroethane	9.93	97	57634	43.41	ug/L		99
51) Cyclohexane	9.97	84	48008	41.21	ug/L	#	98
52) 2,2,4-trimethylpentane	10.31	57	113879	38.55	ug/L		99
53) tert-amyl methyl ether	10.37	73	128981	46.84	ug/L		96
55) epichlorohydrin	12.01	57	18162	241.47	ug/L		92
56) n-butyl alcohol	10.88	56	64546	2512.31	ug/L		93
57) carbon tetrachloride	10.12	117	53104	45.93	ug/L		98
58) 1,1-dichloropropene	10.10	75	47560	43.77	ug/L		97
59) hexane	8.27	57	44131	44.62	ug/L		93
61) benzene	10.37	78	131870	36.93	ug/L		98
62) heptane	10.48	57	24216	41.81	ug/L		97
63) isopropyl acetate	10.28	61	16270	49.25	ug/L	#	30
64) 1,2-dichloroethane	10.42	62	48422	45.01	ug/L		98
65) trichloroethene	11.07	95	35934	40.91	ug/L		99
67) 2-nitropropane	11.88	41	12584	53.10	ug/L		88
68) 2-chloroethyl vinyl ether	11.86	63	102778	416.94	ug/L		98
69) methyl methacrylate	11.33	69	23763	43.44	ug/L		85
70) 1,2-dichloropropane	11.35	63	37123	42.10	ug/L		99
71) methylcyclohexane	11.25	83	58224	45.83	ug/L		95
73) dibromomethane	11.53	93	24053	42.43	ug/L		100
74) bromodichloromethane	11.64	83	54072	42.25	ug/L		100
75) cis-1,3-dichloropropene	12.08	75	61393	41.12	ug/L		99
77) 4-methyl-2-pentanone	12.16	58	14156	45.74	ug/L	#	84
78) toluene	12.41	91	136798	36.94	ug/L		98
79) 3-methyl-1-butanol	12.19	70	22659	945.52	ug/L		92
80) trans-1,3-dichloropropene	12.63	75	55564	42.67	ug/L		98
81) ethyl methacrylate	12.58	69	41842	39.88	ug/L		90
82) 1,1,2-trichloroethane	12.84	83	26496	41.25	ug/L		99
83) 2-hexanone	12.99	58	13886	47.63	ug/L		99
85) tetrachloroethene	12.97	166	42816	45.73	ug/L		98
86) 1,3-dichloropropane	13.02	76	51170	43.04	ug/L		99
87) butyl acetate	13.04	56	23415	50.00	ug/L		95
88) dibromochloromethane	13.28	129	43379	43.98	ug/L		97
89) 1,2-dibromoethane	13.43	107	33853	43.52	ug/L		99
90) 3,3-Dimethyl-1-Butanol	13.16	57	38346	471.86	ug/L		97
91) chlorobenzene	13.86	112	99776	42.66	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.92	131	37245	42.44	ug/L		95
93) ethylbenzene	13.89	91	142045	37.89	ug/L		99
94) m,p-xylene	14.00	106	104999	72.38	ug/L		98
95) o-xylene	14.41	91	118271	36.87	ug/L		99
96) styrene	14.43	104	89385	36.46	ug/L		99
97) bromoform	14.72	173	29464	44.77	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131353.D
Acq On : 25 Feb 2013 3:37 pm
Operator : ROBERTS
Sample : JB29432-9MS
Misc : MS43682,VY5654,6.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 25 16:12:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

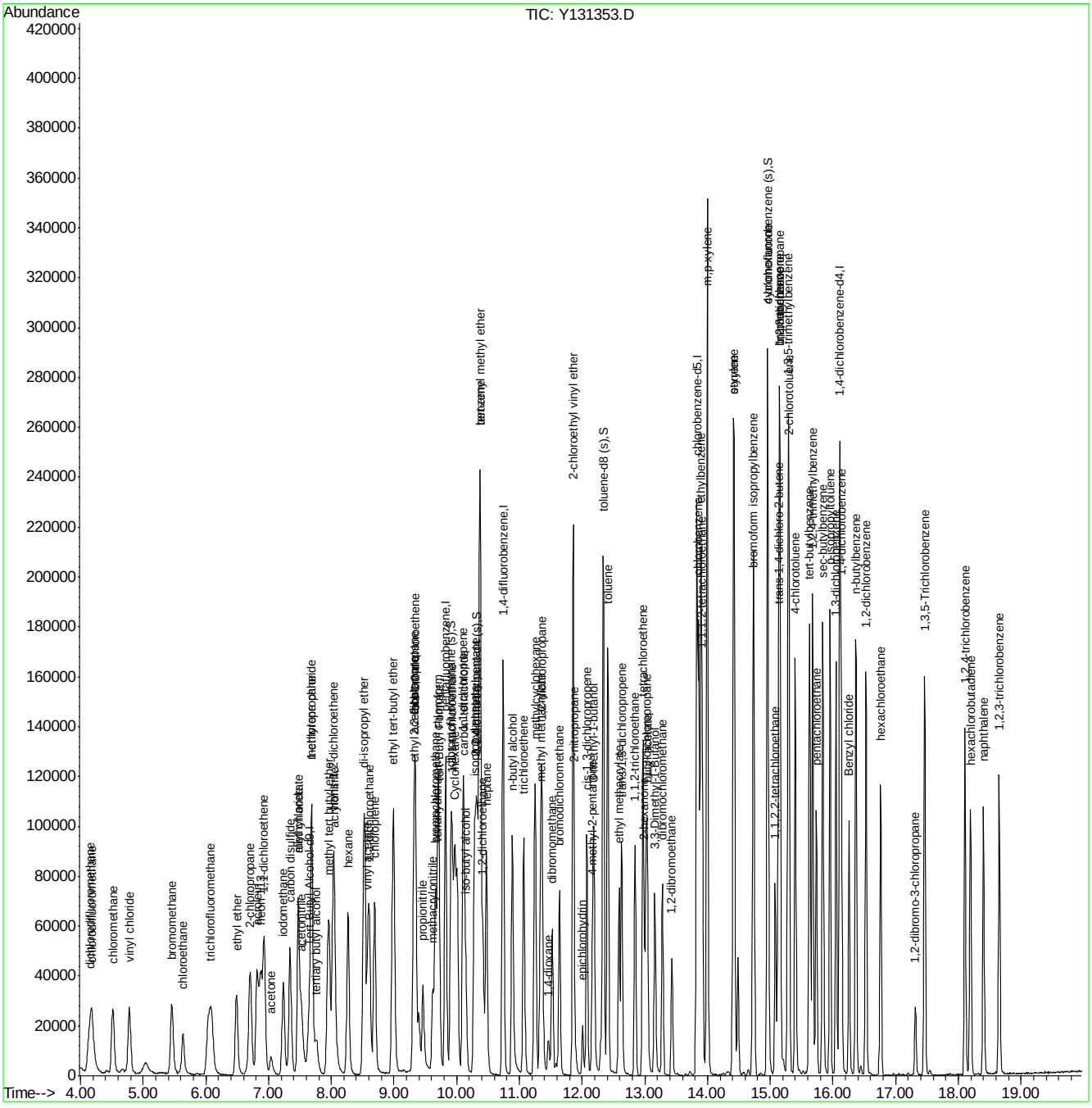
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.74	105	136090	35.89	ug/L	98
101) bromobenzene	15.16	156	38842	35.58	ug/L	89
102) cyclohexanone	14.95	55	66012	516.90	ug/L	95
103) 1,1,2,2-tetrachloroethane	15.08	83	40321	39.28	ug/L	98
104) trans-1,4-dichloro-2-buten	15.13	53	9758	40.05	ug/L	93
105) 1,2,3-trichloropropane	15.16	110	10542	43.36	ug/L	95
106) n-propylbenzene	15.14	91	154475	35.39	ug/L	100
108) 2-chlorotoluene	15.30	126	33260	36.75	ug/L	96
109) 4-chlorotoluene	15.40	91	99316	34.67	ug/L	97
110) 1,3,5-trimethylbenzene	15.28	105	110656	35.11	ug/L	100
111) tert-butylbenzene	15.63	119	93760	35.37	ug/L	97
112) pentachloroethane	15.74	167	23860	33.28	ug/L	98
113) 1,2,4-trimethylbenzene	15.68	105	111025	34.37	ug/L	94
114) sec-butylbenzene	15.84	105	137019	34.75	ug/L	99
115) 1,3-dichlorobenzene	16.05	146	69402	34.99	ug/L	99
116) p-isopropyltoluene	15.95	119	113084	34.79	ug/L	99
117) 1,4-dichlorobenzene	16.13	146	68490	34.55	ug/L	99
118) 1,2-dichlorobenzene	16.53	146	69907	36.66	ug/L	99
119) n-butylbenzene	16.37	134	25100	35.17	ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	8818	42.91	ug/L	92
122) 1,3,5-Trichlorobenzene	17.46	180	54394	35.41	ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	47173	35.33	ug/L	98
125) hexachlorobutadiene	18.20	225	25081	33.57	ug/L	98
126) naphthalene	18.40	128	90653	34.16	ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	43396	36.75	ug/L	96
128) hexachloroethane	16.76	119	26862	37.97	ug/L	98
129) Benzyl chloride	16.26	91	75015	40.39	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131353.D
Acq On : 25 Feb 2013 3:37 pm
Operator : ROBERTS
Sample : JB29432-9MS
Misc : MS43682,VY5654,6.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 25 16:12:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131354.D
Acq On : 25 Feb 2013 4:06 pm
Operator : ROBERTS
Sample : JB29432-10DUP
Misc : MS43682,VY5654,5.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 25 16:29:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

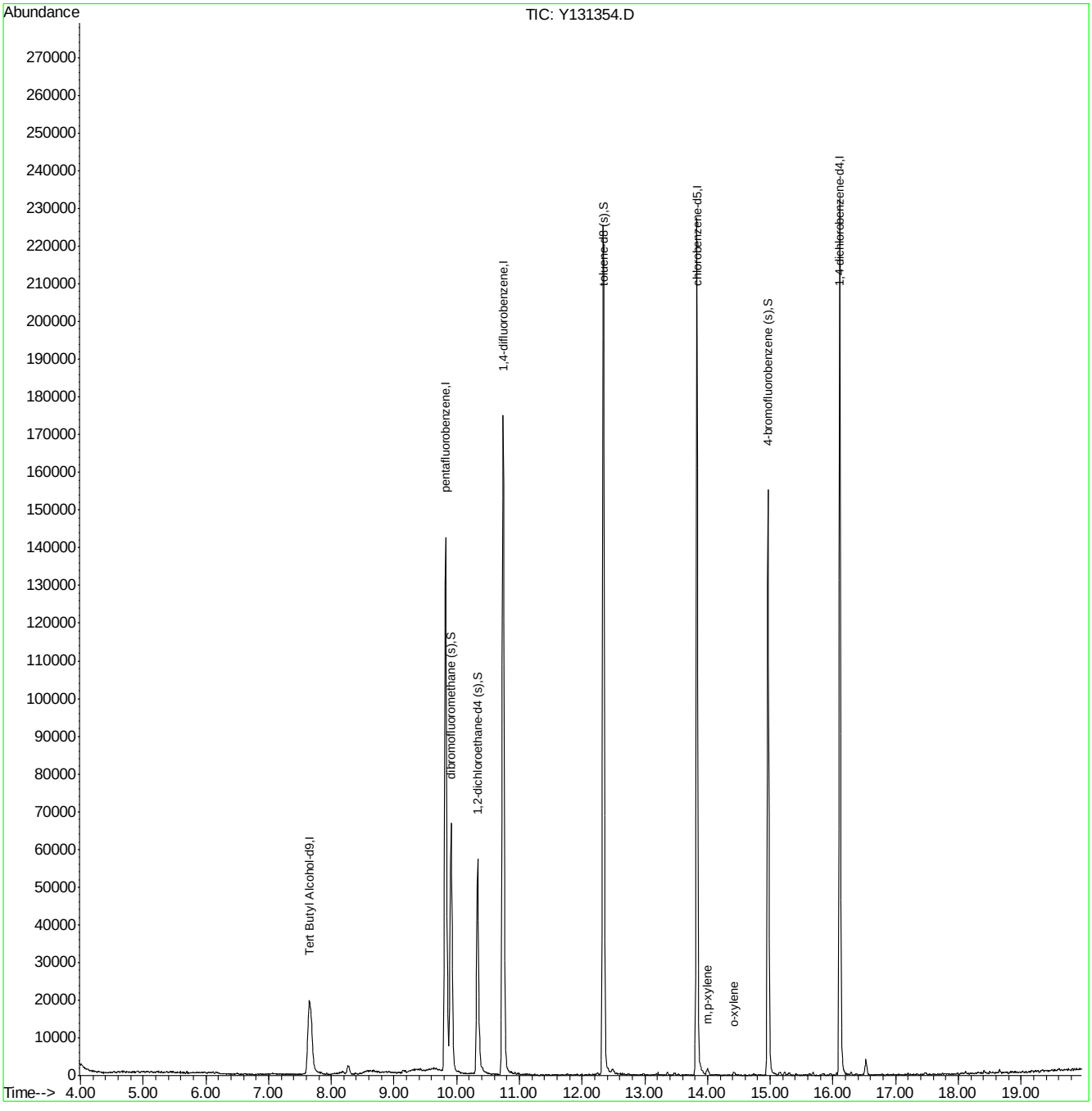
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	45205	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	126715	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	179061	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	136549	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	64065	50.00	ug/L	0.00
System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	50821	51.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.96%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	50962	51.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 103.14%			
76) toluene-d8 (s)	12.34	98	166471	53.49	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.98%			
100) 4-bromofluorobenzene (s)	14.96	95	54092	50.31	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 100.62%			
Target Compounds						Qvalue
94) m,p-xylene	14.00	106	589	0.39	ug/L	86
95) o-xylene	14.41	91	646	0.19	ug/L	96

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

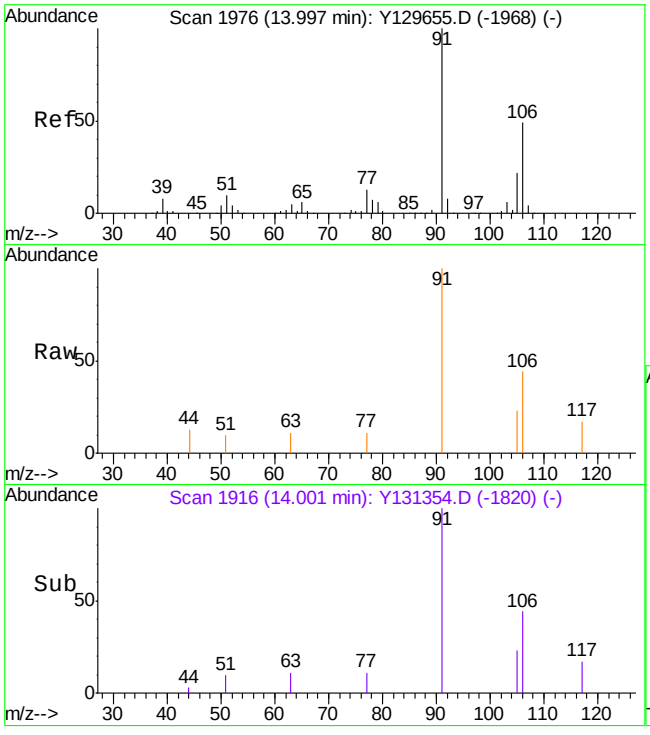
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131354.D
Acq On : 25 Feb 2013 4:06 pm
Operator : ROBERTS
Sample : JB29432-10DUP
Misc : MS43682,VY5654,5.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 25 16:29:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



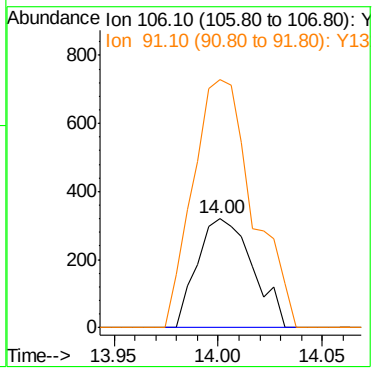
MY5578.M Mon Feb 25 16:29:30 2013 RPT1 Page: 2

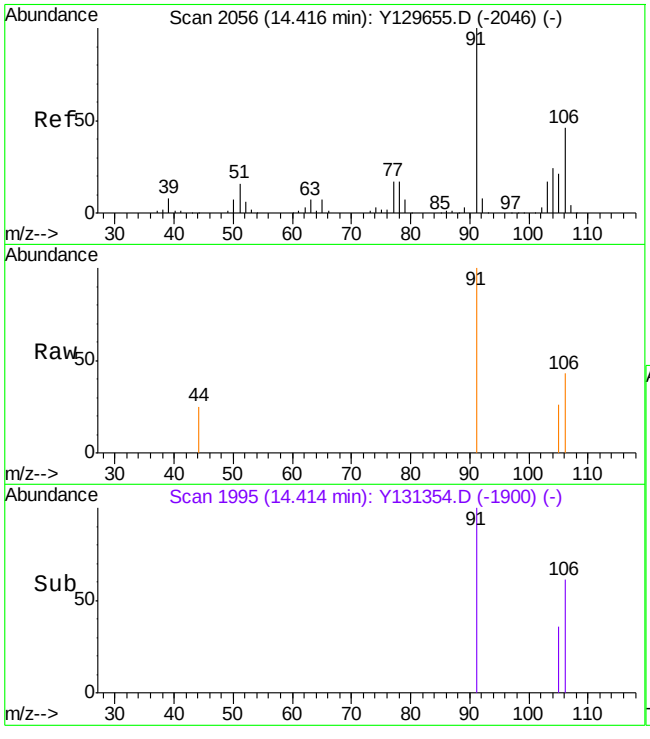


#94
m,p-xylene
Concen: 0.39 ug/L
RT: 14.00 min Scan# 1916
Delta R.T. 0.00 min
Lab File: Y131354.D
Acq: 25 Feb 2013 4:06 pm

Tgt Ion:106 Resp: 589

Ion	Ratio	Lower	Upper
106	100		
91	226.1	143.5	266.5

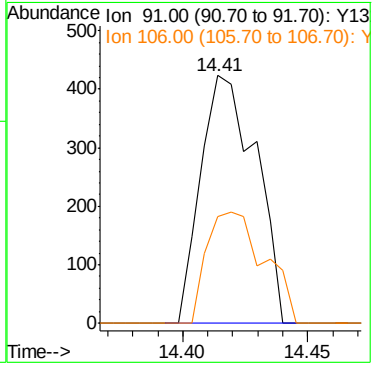




#95
o-xylene
Concen: 0.19 ug/L
RT: 14.41 min Scan# 1995
Delta R.T. -0.00 min
Lab File: Y131354.D
Acq: 25 Feb 2013 4:06 pm

Tgt Ion: 91 Resp: 646

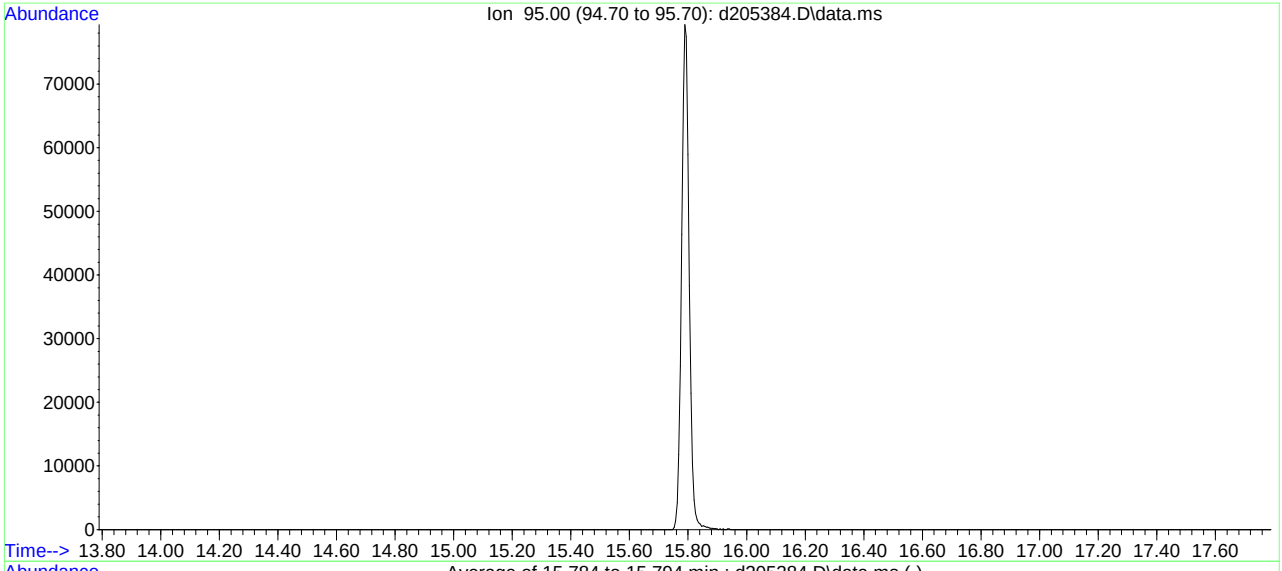
Ion	Ratio	Lower	Upper
91	100		
106	43.3	32.1	59.7

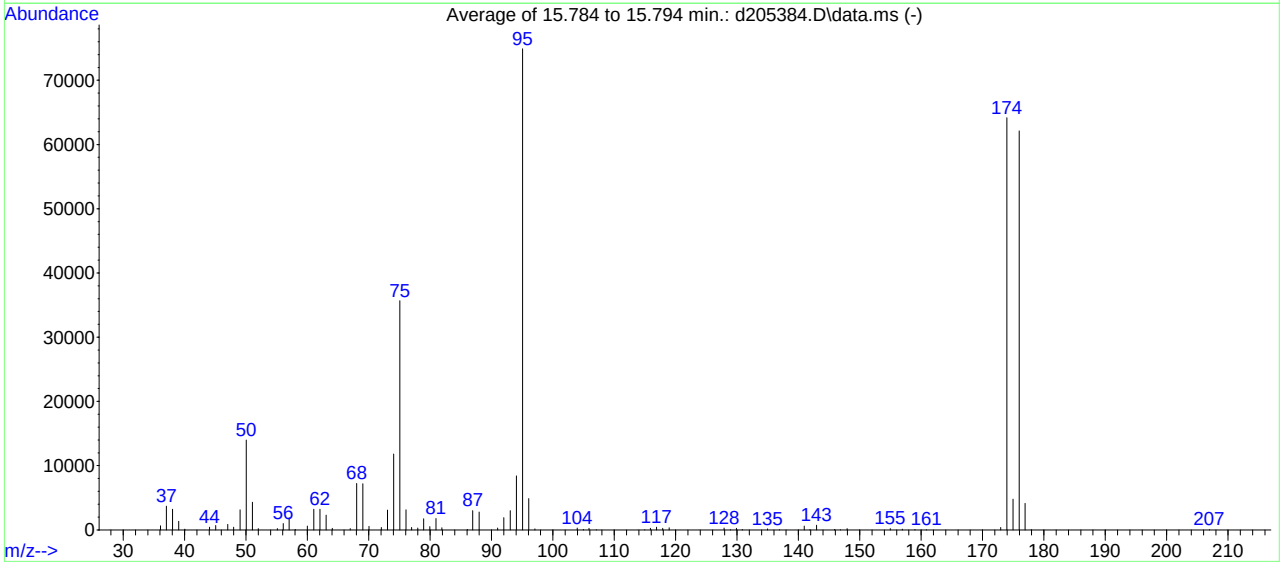


SW-846 Method 8260

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

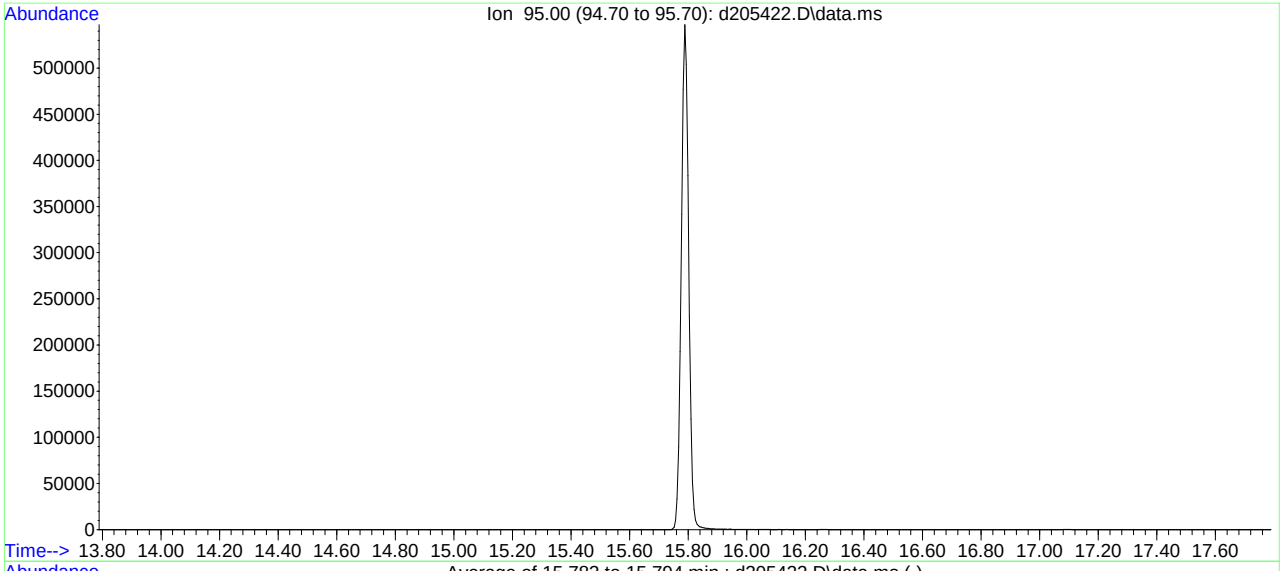
Average of 15.784 to 15.794 min.: d205384.D\data.ms
bfb
Modified:subtracted

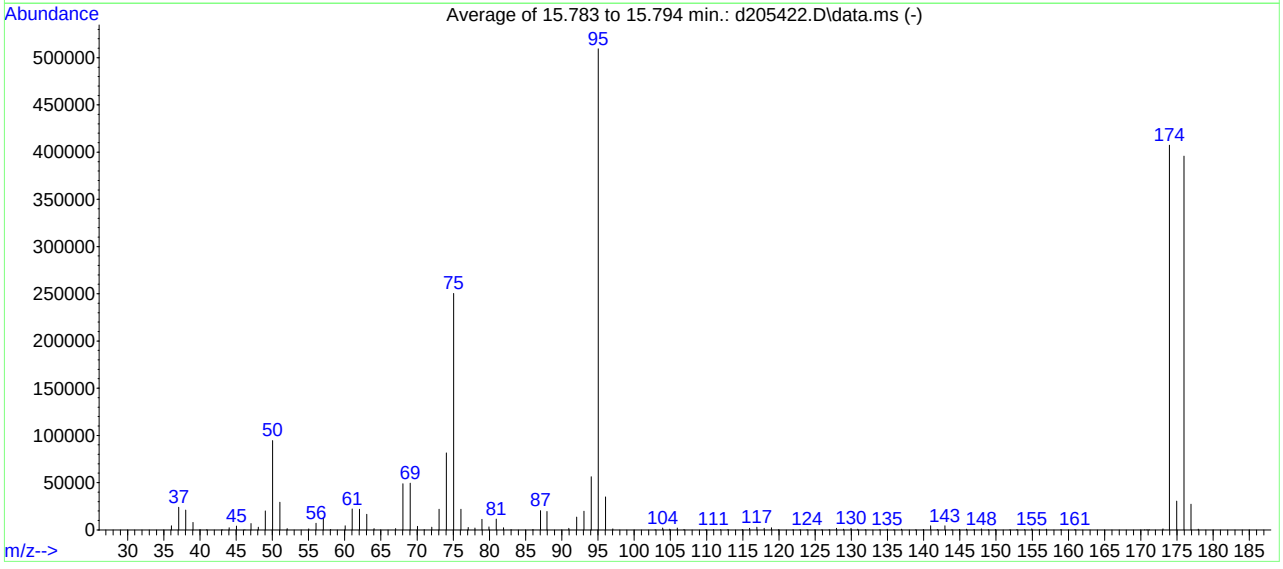
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	74890	118.95	335	146.85	38	177.95	46
96.05	4864	127.90	268	147.95	201	206.95	8
97.05	149	128.95	39	154.95	177		
103.95	294	129.90	256	156.95	134		
104.95	90	130.85	74	159.00	75		
105.90	254	134.95	153	160.85	36		
107.05	37	136.95	43	172.95	353		
114.95	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\d205422.D Vial: 1
Acq On : 13 Feb 2013 8:20 am Operator: EmilyT
Sample : bfb Inst : MSD
Misc : ms42756,vd8381,5,,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 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	94565	PASS
75	95	30	60	49.2	250432	PASS
95	95	100	100	100.0	509376	PASS
96	95	5	9	6.9	34986	PASS
173	174	0.00	2	0.3	1103	PASS
174	95	50	120	80.0	407317	PASS
175	174	5	9	7.5	30450	PASS
176	174	95	101	97.2	395754	PASS
177	176	5	9	6.9	27202	PASS

d205422.D MD8379.M Wed Feb 13 09:27:14 2013

Average of 15.783 to 15.794 min.: d205422.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	4267	48.05	2973	62.05	21938	75.05	250432
37.05	23845	49.05	20170	63.05	16453	76.05	21936
38.05	21053	50.05	94565	64.05	1443	77.05	2651
39.05	7935	51.05	29285	67.05	1276	78.00	1881
40.00	194	52.05	1335	68.05	48810	78.95	11160
40.95	33	55.05	1189	69.05	49378	79.95	3222
43.05	233	56.05	6938	70.05	3659	80.95	11592
44.05	2304	57.05	12876	71.00	170	81.95	2331
45.05	4020	58.05	540	72.05	2699	83.00	314
46.20	269	60.05	4353	73.05	21701	86.00	545
47.05	6572	61.05	22085	74.05	81549	87.05	20213

Average of 15.783 to 15.794 min.: d205422.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	19341	105.95	1800	119.95	84	131.95	36
90.95	1540	106.90	399	121.95	46	133.95	105
92.05	13405	109.90	235	122.90	125	134.95	856
93.05	19869	110.95	309	123.90	252	135.90	165
94.05	56189	111.90	243	124.95	98	136.95	794
95.05	509376	112.95	330	125.95	200	138.90	175
96.05	34986	114.95	480	126.95	158	139.95	330
97.05	943	115.95	1573	127.95	1704	140.95	4320
102.90	207	116.95	2782	128.90	804	141.90	512
103.95	2005	117.95	1664	129.95	1720	142.95	4332
104.90	621	118.95	2361	130.90	680	143.90	246

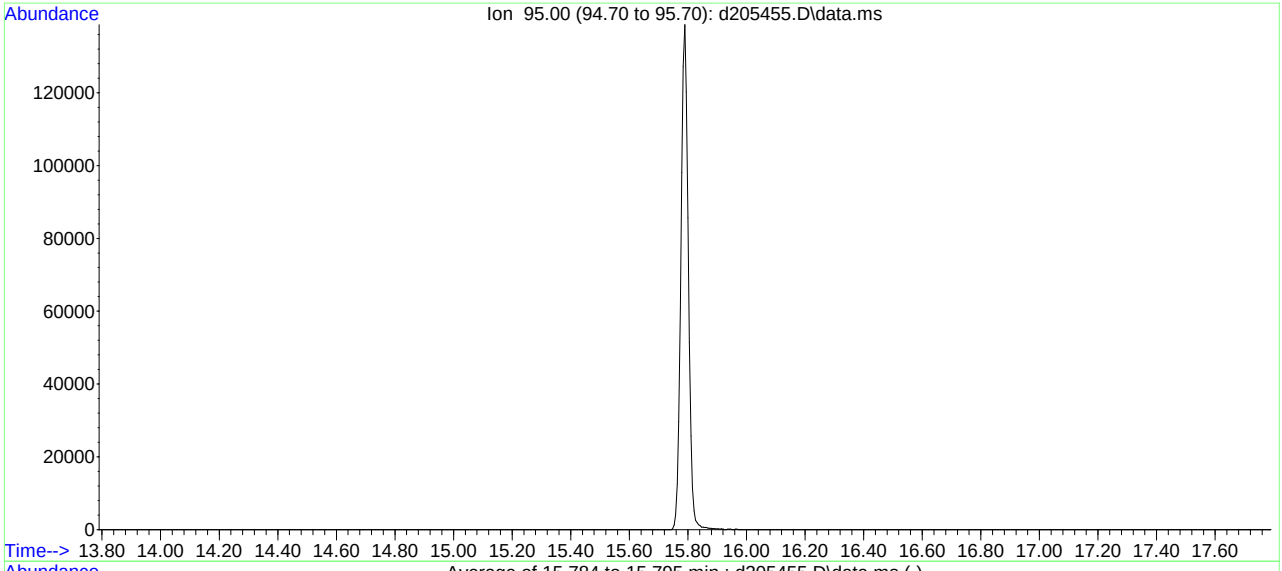
Average of 15.783 to 15.794 min.: d205422.D\data.ms
bfb
Modified:subtracted

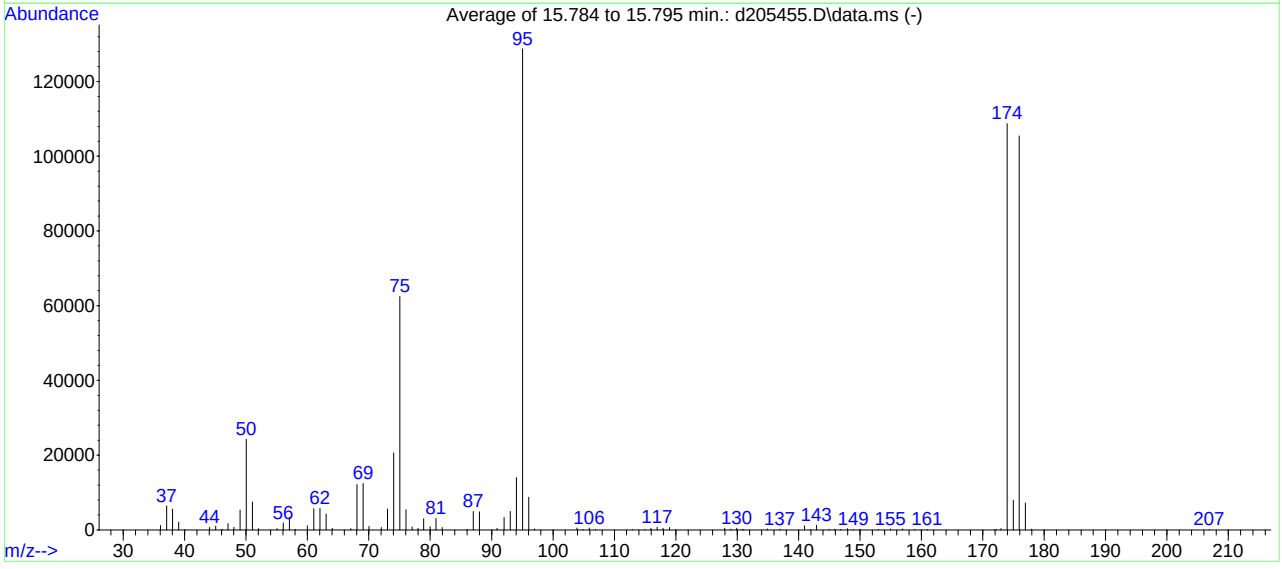
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	393	156.95	875	177.95	729		
145.90	690	158.95	477				
146.95	346	160.90	568				
147.95	1099	170.55	44				
148.95	315	170.85	88				
149.90	493	171.15	46				
151.90	221	173.05	1103				
152.90	344	173.95	407317				
153.95	305	174.95	30450				
154.95	1188	175.95	395754				
156.00	132	176.95	27202				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\d205455.D Vial: 1
Acq On : 14 Feb 2013 8:24 am Operator: EmilyT
Sample : bfb Inst : MSD
Misc : ms42950,vd8383,5,,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 2192

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	24261	PASS
75	95	30	60	48.5	62466	PASS
95	95	100	100	100.0	128730	PASS
96	95	5	9	6.8	8765	PASS
173	174	0.00	2	0.3	323	PASS
174	95	50	120	84.5	108762	PASS
175	174	5	9	7.2	7884	PASS
176	174	95	101	97.0	105450	PASS
177	176	5	9	6.8	7180	PASS

d205455.D MD8379.M Thu Feb 14 11:16:15 2013

Average of 15.784 to 15.795 min.: d205455.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1182	50.05	24261	64.05	395	78.00	451
37.05	6407	51.05	7479	67.05	359	78.95	3003
38.05	5512	52.05	349	68.05	12111	80.00	887
39.05	2055	55.05	318	69.05	12448	80.95	3062
40.05	34	56.05	1848	70.05	955	81.95	678
44.05	617	57.05	3363	72.05	653	86.00	150
45.05	1018	58.05	109	73.05	5586	87.00	4885
46.15	47	60.00	1121	74.05	20581	88.00	4840
47.05	1705	61.05	5674	75.05	62466	90.90	419
48.05	753	62.05	5774	76.05	5407	92.05	3318
49.05	5279	63.05	4275	77.05	762	93.05	4880

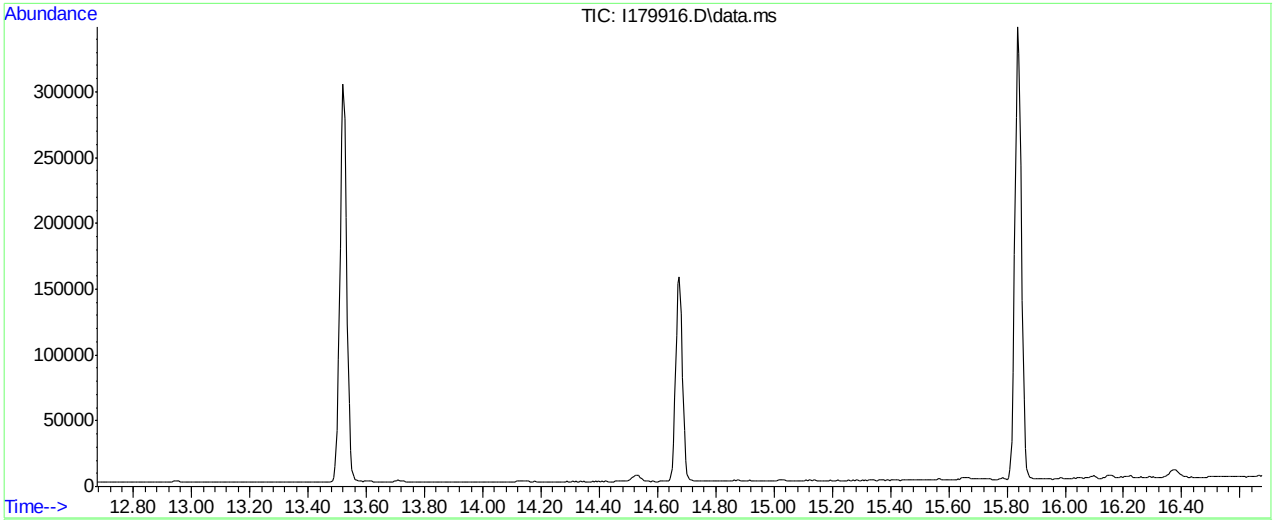
Average of 15.784 to 15.795 min.: d205455.D\data.ms
bfb
Modified:subtracted

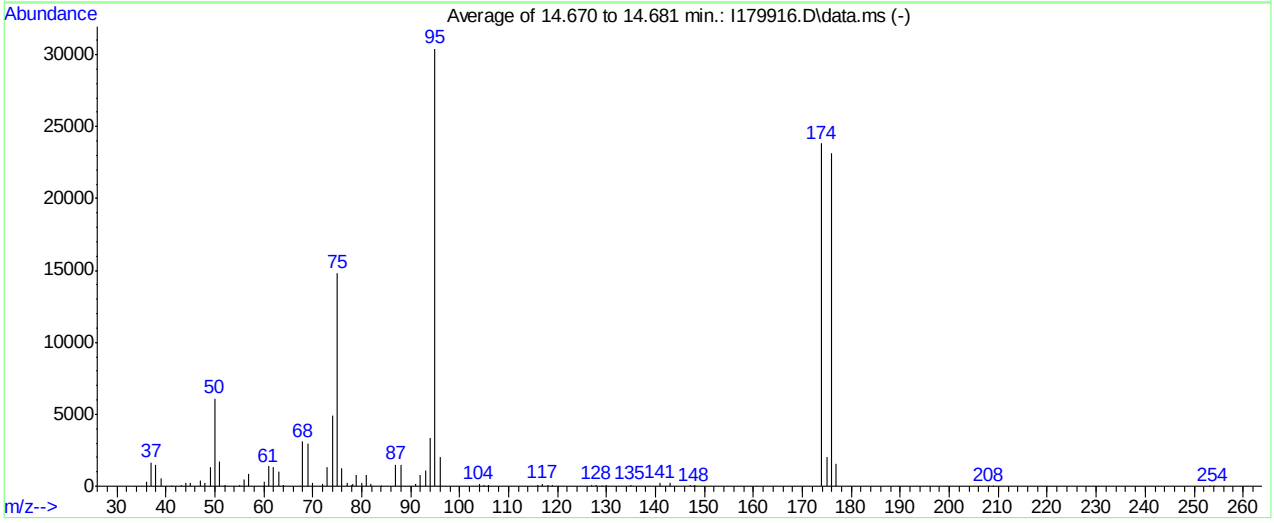
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	14006	116.95	739	141.90	122	158.90	124
95.05	128730	117.90	409	142.95	1228	160.95	150
96.05	8765	118.95	672	145.00	131	171.85	49
97.00	256	127.95	420	145.90	173	172.20	90
103.90	506	128.95	214	146.85	90	172.95	323
104.90	155	129.90	449	147.95	307	173.95	108762
105.90	519	130.85	108	148.95	47	174.95	7884
106.90	138	131.05	65	149.95	113	175.95	105450
112.95	35	134.90	243	152.95	117	176.95	7180
114.95	131	136.95	212	155.00	292	177.95	201
115.95	410	140.95	1120	156.95	240	206.90	8

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7266\I179916.D Vial: 10
Acq On : 28 Dec 2012 9:45 am Operator: SCOTTM
Sample : BFB1 Inst : MSI
Misc : MS40394,VI7266,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MI7266.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2120, 2121, 2122; Background Corrected with Scan 2111

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	6103	PASS
75	95	30	60	48.7	14826	PASS
95	95	100	100	100.0	30426	PASS
96	95	5	9	6.7	2050	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.3	23829	PASS
175	174	5	9	8.4	1991	PASS
176	174	95	101	97.2	23168	PASS
177	176	5	9	6.7	1560	PASS

I179916.D MI7266.M Mon Dec 31 09:08:06 2012 RPT1

Average of 14.670 to 14.681 min.: I179916.D\data.ms
BFB1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	330	50.00	6103	68.00	3093	78.90	761
37.00	1676	51.00	1741	69.00	2998	79.95	238
38.00	1465	52.00	107	70.05	253	80.90	819
39.00	547	55.00	79	72.00	174	81.90	179
41.00	2	56.00	469	73.00	1335	84.00	1
43.05	53	57.00	869	74.00	4928	87.00	1488
44.00	207	60.00	309	75.00	14826	88.00	1457
45.00	265	61.00	1371	76.00	1287	91.00	177
46.95	424	62.00	1293	77.00	226	92.00	749
47.95	218	63.00	1009	77.90	81	93.00	1123
49.00	1364	64.00	66	78.15	156	94.05	3368

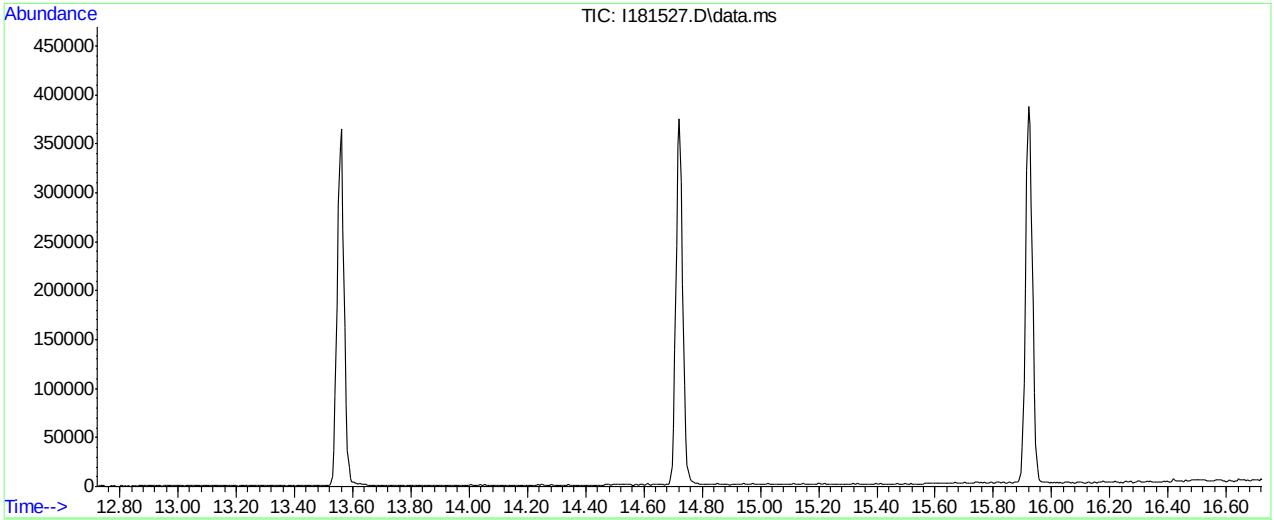
Average of 14.670 to 14.681 min.: I179916.D\data.ms
BFB1
Modified:subtracted

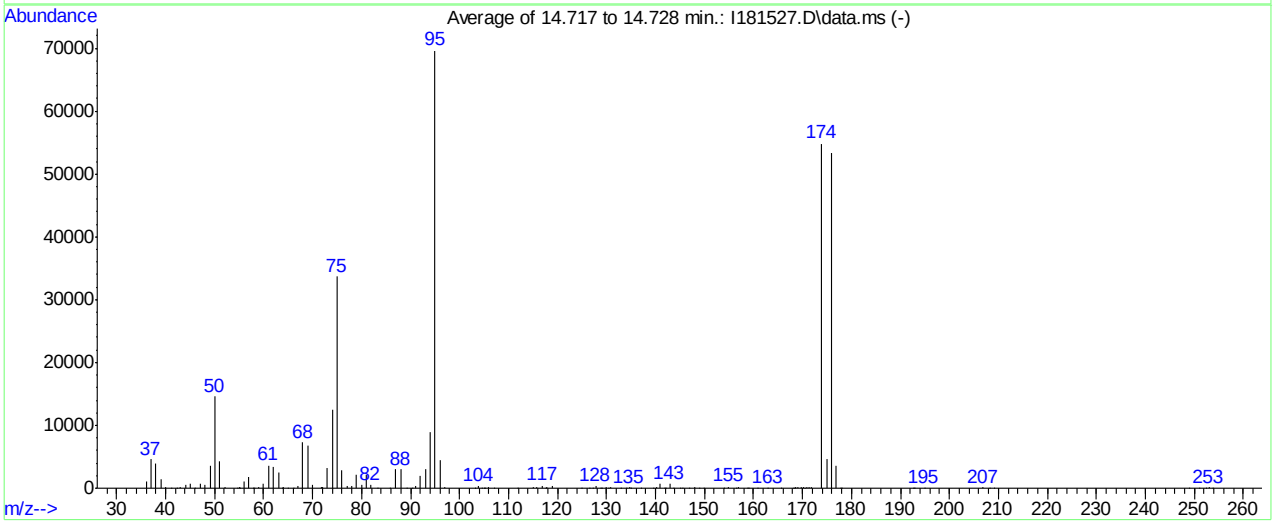
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	30426	129.00	26	176.90	1560		
96.00	2050	129.90	74	208.00	25		
103.95	124	134.95	107	209.00	25		
104.95	56	140.95	232	253.00	21		
105.85	112	142.95	219	253.90	25		
115.95	107	147.00	43				
116.90	164	147.80	25				
117.95	108	147.95	54				
118.90	56	173.90	23829				
126.95	83	175.00	1991				
127.95	109	175.90	23168				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VI7333\I181527.D Vial: 1
Acq On : 15 Feb 2013 12:00 pm Operator: SCOTTM
Sample : BFB Inst : MSI
Misc : MS43192,VI7333,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MI7266.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2129, 2130, 2131; Background Corrected with Scan 2120

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	14559	PASS
75	95	30	60	48.3	33664	PASS
95	95	100	100	100.0	69656	PASS
96	95	5	9	6.3	4409	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.8	54858	PASS
175	174	5	9	8.4	4588	PASS
176	174	95	101	97.2	53298	PASS
177	176	5	9	6.7	3563	PASS

I181527.D MI7266.M Mon Feb 18 08:38:33 2013 RPT1

Average of 14.717 to 14.728 min.: I181527.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1018	47.00	769	57.80	77	67.05	303
37.00	4600	48.05	580	58.05	77	68.00	7289
38.00	3995	49.10	3561	58.90	110	69.00	6762
39.00	1414	50.00	14559	60.00	776	70.00	580
40.00	132	51.00	4345	61.00	3635	71.80	125
41.15	80	52.05	195	62.00	3478	72.00	274
42.20	29	54.70	54	63.00	2512	73.00	3238
42.95	99	55.00	178	63.90	87	74.00	12434
44.05	496	55.20	62	64.10	146	75.00	33664
45.05	785	56.00	1130	65.00	55	76.00	2808
46.00	31	57.00	1859	66.00	39	77.00	363

Average of 14.717 to 14.728 min.: I181527.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	419	90.95	407	105.20	36	126.60	34
78.90	2169	92.00	1944	105.90	264	127.10	32
79.95	627	93.00	2960	107.00	27	127.85	324
80.90	2069	94.05	8873	111.80	30	128.80	46
81.85	479	95.00	69656	114.95	103	128.95	90
83.20	30	95.95	4409	115.85	264	129.85	260
85.70	31	97.05	146	116.95	375	130.40	27
86.95	3008	103.05	73	117.60	38	130.85	102
87.95	3012	103.90	303	117.90	195	133.00	39
89.30	26	104.60	29	118.95	362	134.00	31
90.30	33	105.00	27	124.90	27	134.70	100

Average of 14.717 to 14.728 min.: I181527.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.90	67	146.90	23	162.90	65	171.80	225
137.00	40	147.95	205	165.60	25	173.90	54858
139.60	72	148.95	81	168.10	36	175.00	4588
140.25	104	149.95	91	168.30	35	175.90	53298
140.90	639	153.95	58	168.55	108	176.90	3563
141.80	43	154.90	181	169.05	125	177.70	36
142.00	29	156.50	32	169.70	150	178.00	86
142.90	652	156.85	148	170.30	100	192.70	67
143.70	30	158.70	35	170.50	84	192.90	35
145.00	65	159.00	42	170.80	96	194.90	71
145.50	44	160.85	64	171.40	147	206.90	135

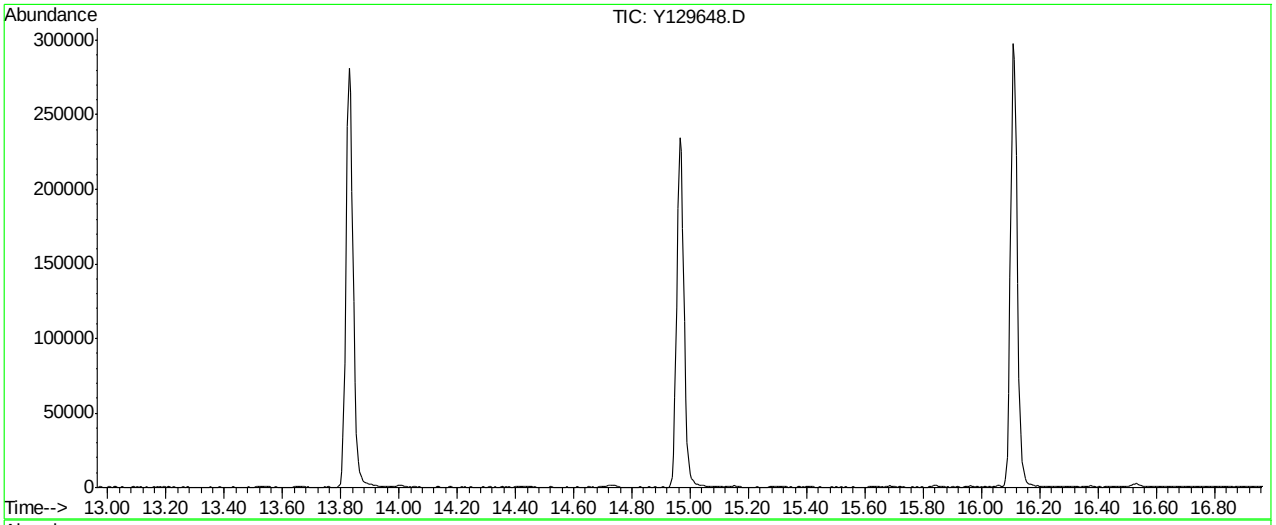
Average of 14.717 to 14.728 min.: I181527.D\data.ms
BFB
Modified:subtracted

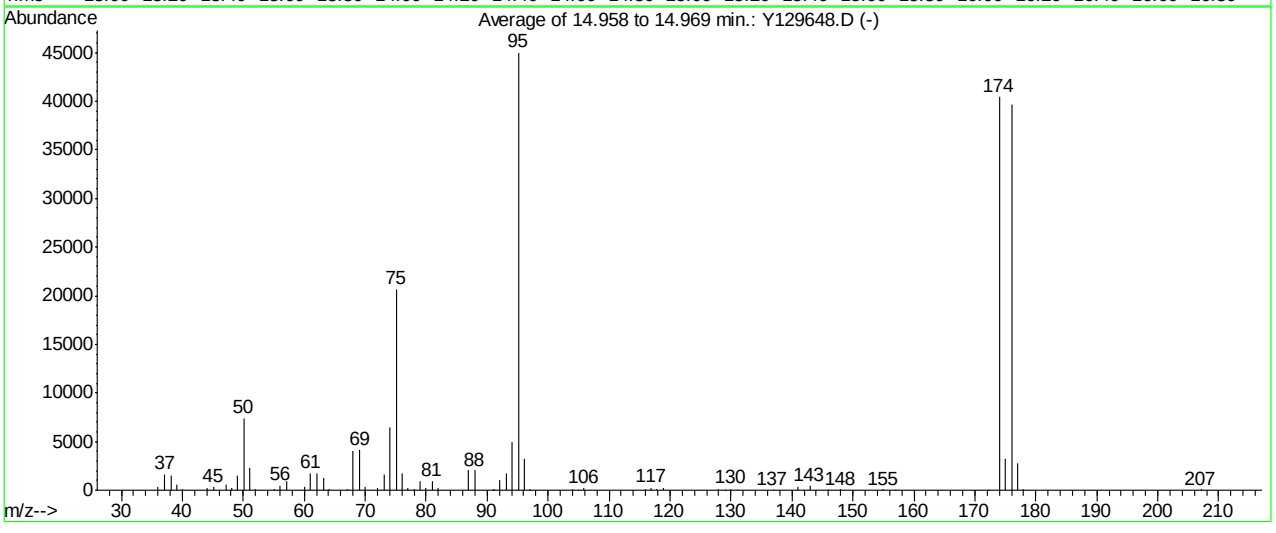
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.10	43						
209.10	27						
248.90	27						
251.00	30						
252.30	27						
252.95	118						
253.80	28						

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\Y129648.D Vial: 1
Acq On : 7 Jan 2013 10:36 am Operator: ROBERTS
Sample : BFB Inst : MSY
Misc : MS40825,VY5578,5.0,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2099, 2100, 2101; Background Corrected with Scan 2091

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	7385	PASS
75	95	30	60	45.9	20656	PASS
95	95	100	100	100.0	45010	PASS
96	95	5	9	7.2	3227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.9	40456	PASS
175	174	5	9	8.1	3264	PASS
176	174	95	101	97.9	39624	PASS
177	176	5	9	7.0	2762	PASS

Y129648.D MY5578.M Wed Jan 09 09:16:55 2013 RPT1

Average of 14.958 to 14.969 min.: Y129648.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	338	51.10	2267	68.05	4083	78.95	922
37.10	1655	52.05	112	69.10	4139	80.00	268
38.10	1551	55.10	158	70.00	314	80.95	944
39.10	575	56.05	497	72.05	214	81.95	198
40.05	99	57.05	982	73.05	1666	87.00	2034
44.05	203	60.05	347	74.10	6515	88.00	2055
45.10	325	61.05	1755	75.10	20656	90.90	38
47.10	566	62.10	1705	76.10	1774	91.05	135
48.05	218	63.10	1321	77.00	273	92.00	1095
49.05	1495	64.05	108	77.90	44	93.10	1734
50.10	7385	67.05	125	78.05	160	94.10	5002

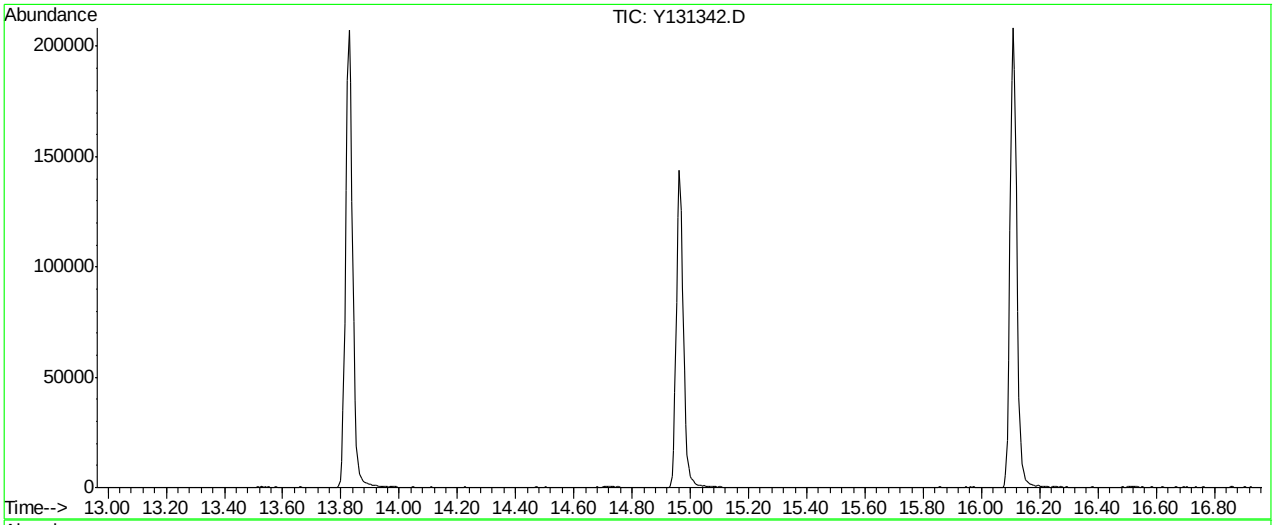
Average of 14.958 to 14.969 min.: Y129648.D
BFB
Modified:subtracted

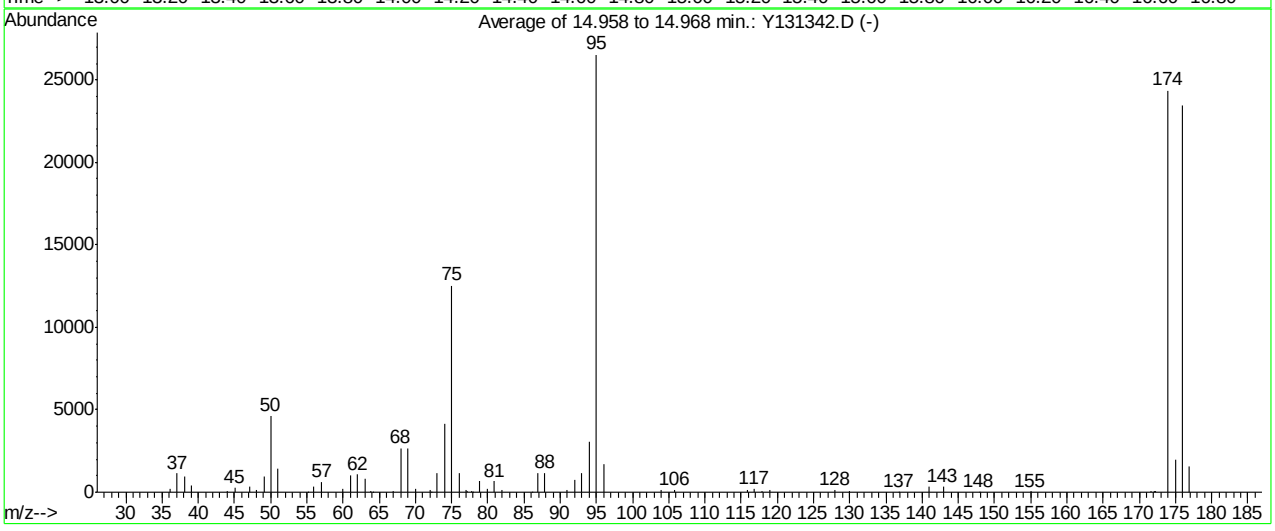
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	45010	129.10	27	172.30	36		
96.10	3227	129.95	159	174.00	40456		
97.10	79	131.00	30	175.00	3264		
103.95	156	136.90	33	176.00	39624		
105.00	26	140.95	404	177.00	2762		
105.90	193	141.90	34	177.95	62		
115.95	140	142.95	429	207.10	106		
116.95	253	145.90	29				
117.85	141	148.00	105				
118.95	220	155.00	103				
127.95	152	157.00	56				

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\Y131342.D Vial: 1
Acq On : 25 Feb 2013 9:53 am Operator: ROBERTS
Sample : BFB Inst : MSY
Misc : MS43000,VY5654,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2099, 2100, 2101; Background Corrected with Scan 2091

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	4609	PASS
75	95	30	60	47.2	12539	PASS
95	95	100	100	100.0	26541	PASS
96	95	5	9	6.5	1725	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.8	24365	PASS
175	174	5	9	8.2	2001	PASS
176	174	95	101	96.2	23440	PASS
177	176	5	9	6.6	1539	PASS

Y131342.D MY5578.M Mon Feb 25 15:12:51 2013 RPT1

Average of 14.958 to 14.968 min.: Y131342.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	212	55.10	34	69.00	2654	78.00	29
37.10	1144	56.00	327	70.05	203	78.90	669
38.05	953	57.05	643	72.00	127	79.90	189
39.10	389	60.00	224	72.20	31	80.90	657
44.00	96	61.00	1023	73.00	1177	81.90	154
45.05	253	62.00	1077	74.00	4169	86.20	29
47.05	359	63.00	834	75.00	12539	86.95	1141
48.05	154	63.90	70	76.00	1183	87.90	1156
49.05	964	64.20	25	76.95	122	90.95	115
50.05	4609	67.00	48	77.20	44	92.00	744
51.05	1430	68.00	2664	77.70	44	93.00	1146

Average of 14.958 to 14.968 min.: Y131342.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	3092	136.80	25	176.95	1539		
95.00	26541	140.95	311				
96.05	1725	142.90	321				
103.90	116	147.90	35				
105.85	117	155.00	61				
115.90	106	171.55	52				
116.85	182	172.05	66				
117.90	98	172.30	63				
118.90	114	173.95	24365				
127.95	105	175.00	2001				
129.90	104	175.90	23440				

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

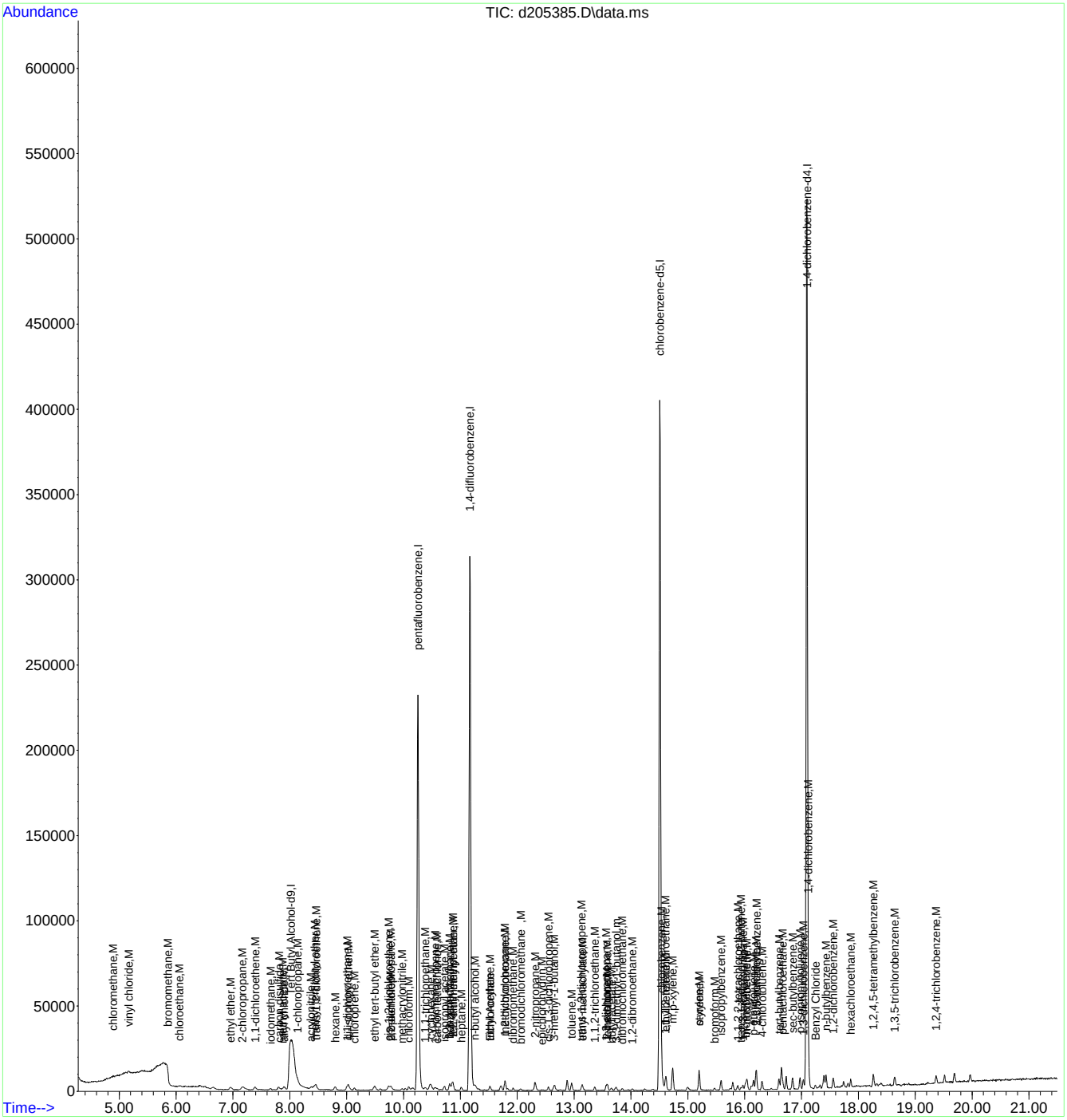
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
73) methylcyclohexane	11.789	83	1163	0.37 ug/L	94
74) dibromomethane	11.925	93	425	0.36 ug/L	80
75) bromodichloromethane	12.056	83	960	0.39 ug/L	88
76) cis-1,3-dichloropropene	12.547	75	1305	0.41 ug/L	73
79) toluene	12.955	92	2078	0.45 ug/L	80
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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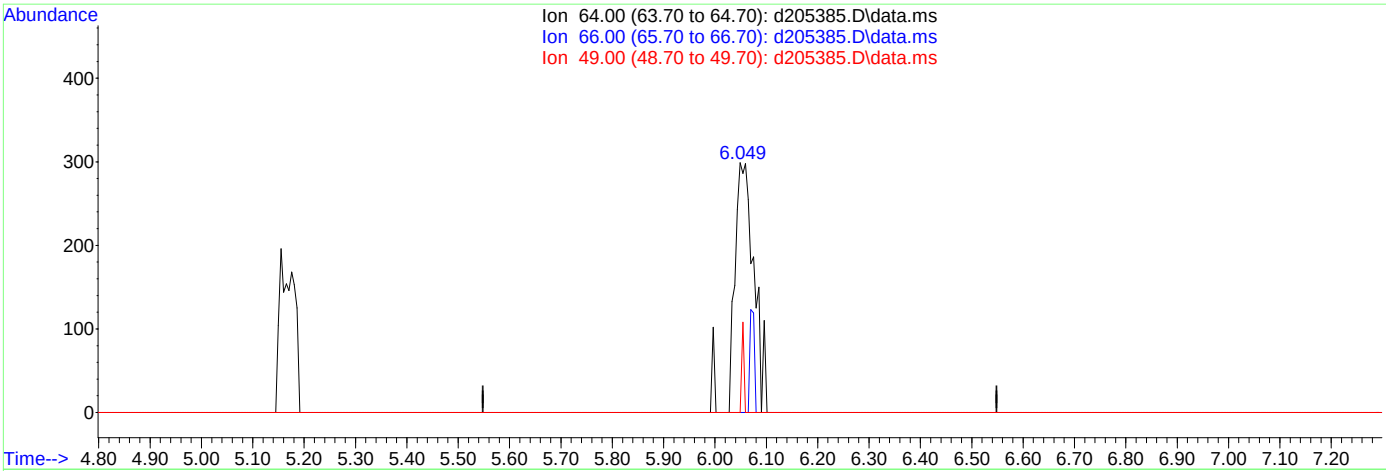
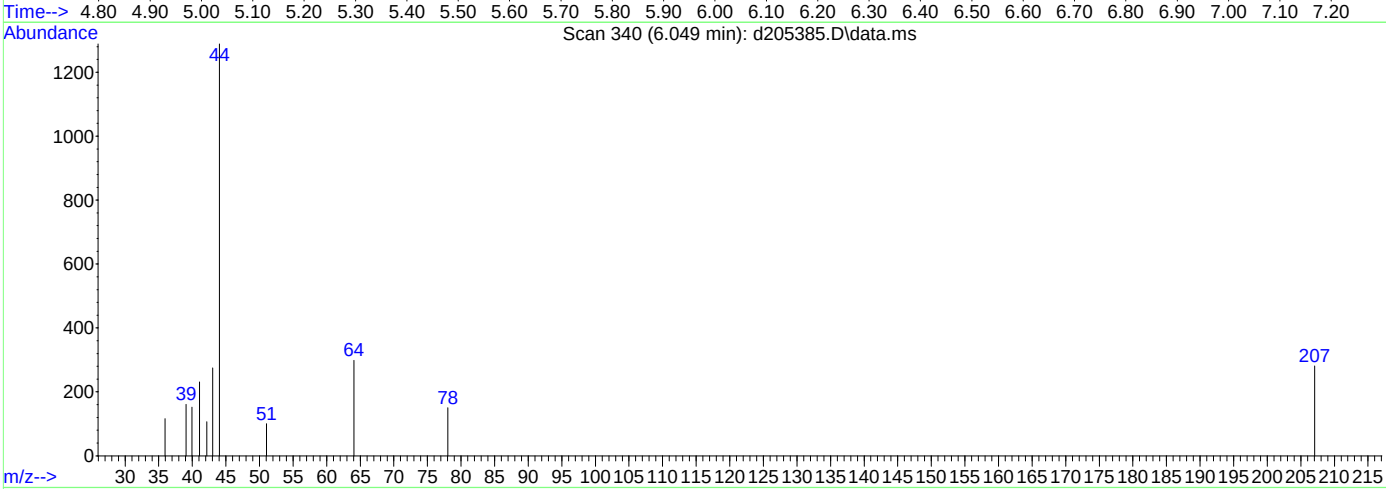




TIC: d205385.D\data.ms

(11) chloroethane (M)

6.049min (+0.000) 0.48ug/L m

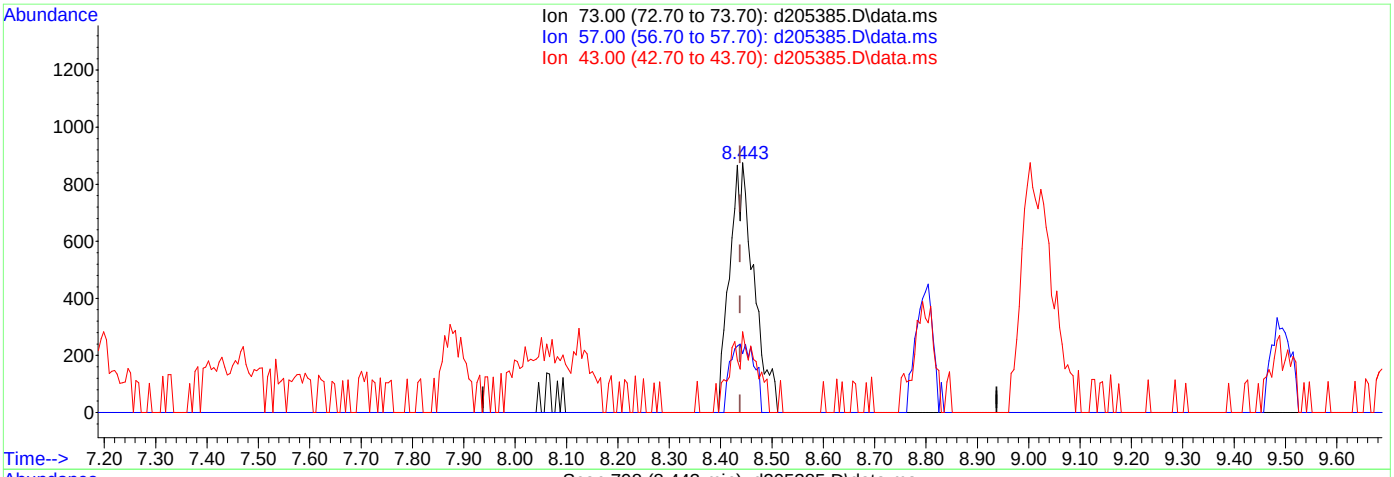
response 758

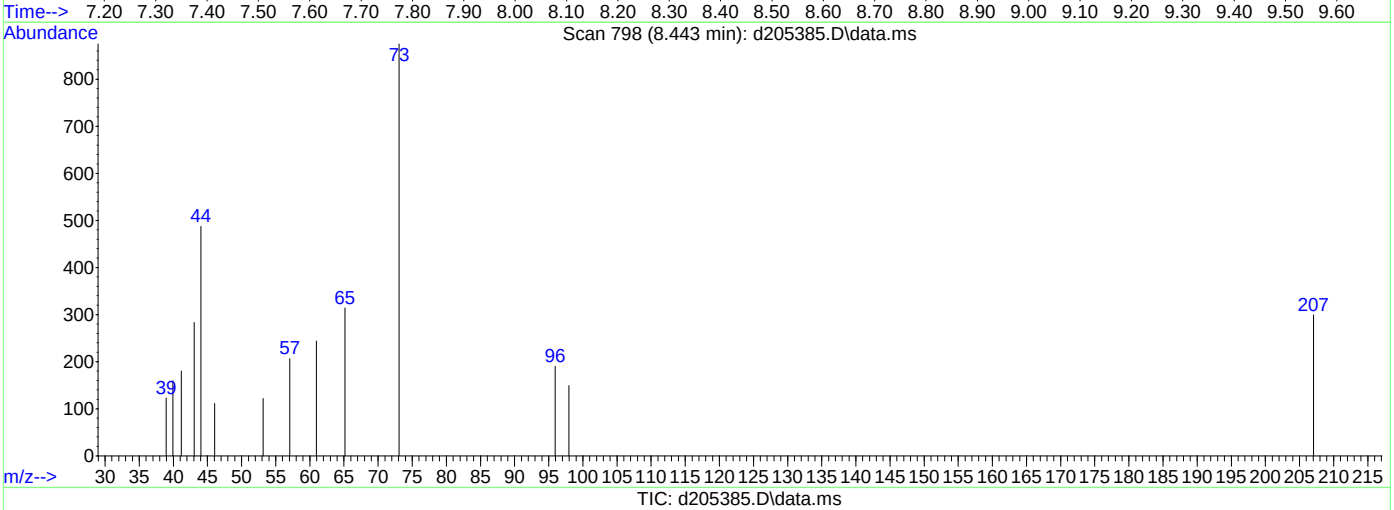
Ion	Exp%	Act%
64.00	100	100
66.00	31.50	0.00#
49.00	25.10	0.00
0.00	0.00	0.00

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

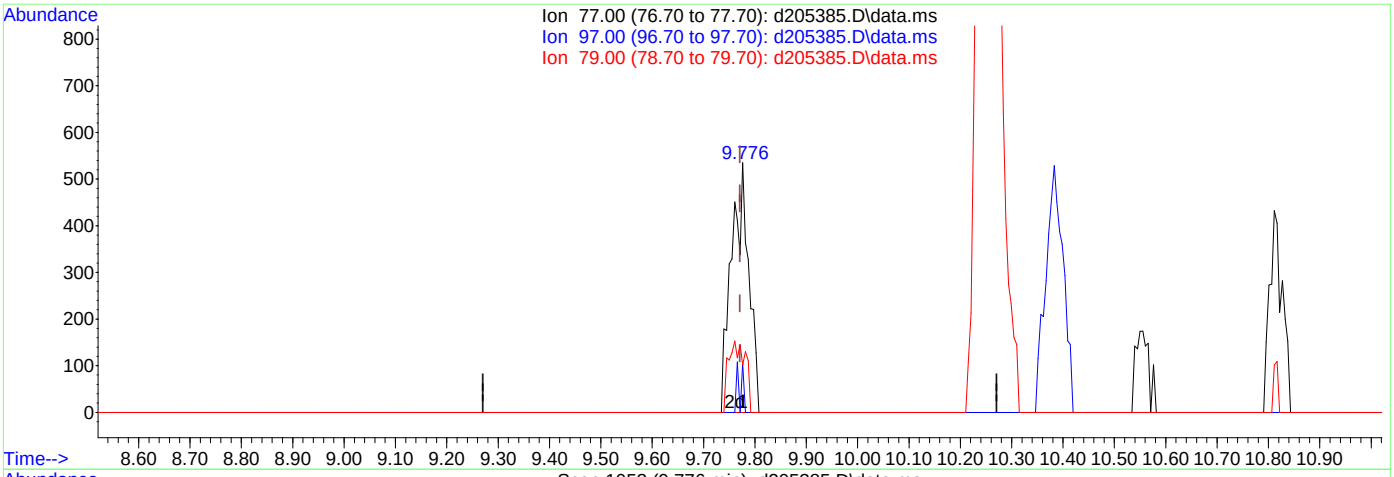
response 2862

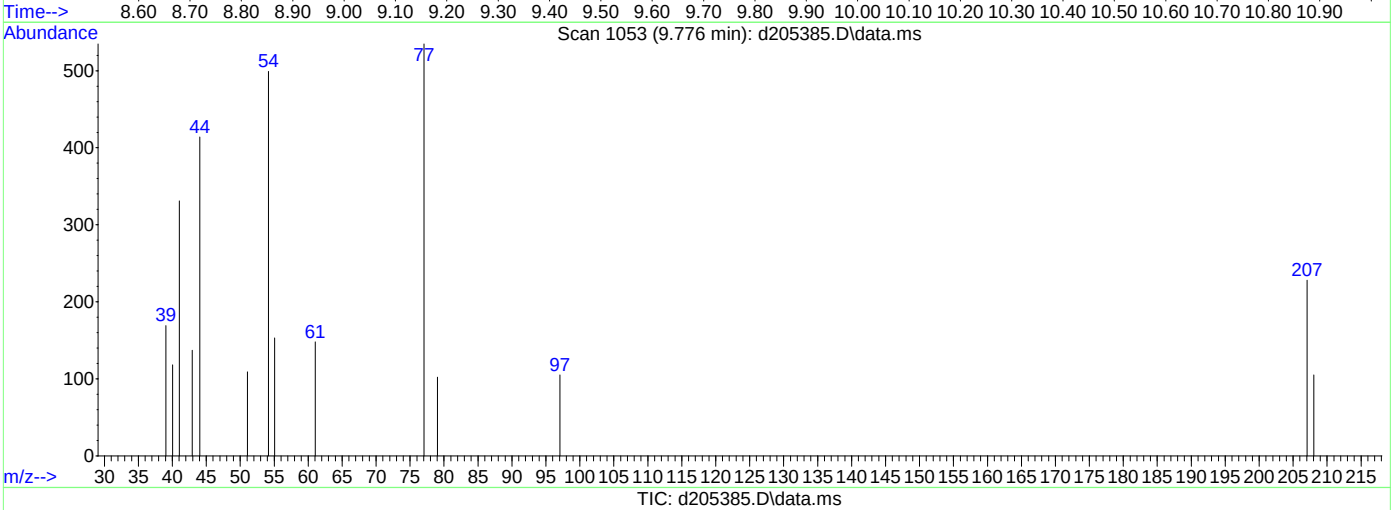
Ion	Exp%	Act%
73.00	100	100
57.00	24.40	23.54
43.00	20.80	32.34
0.00	0.00	0.00

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

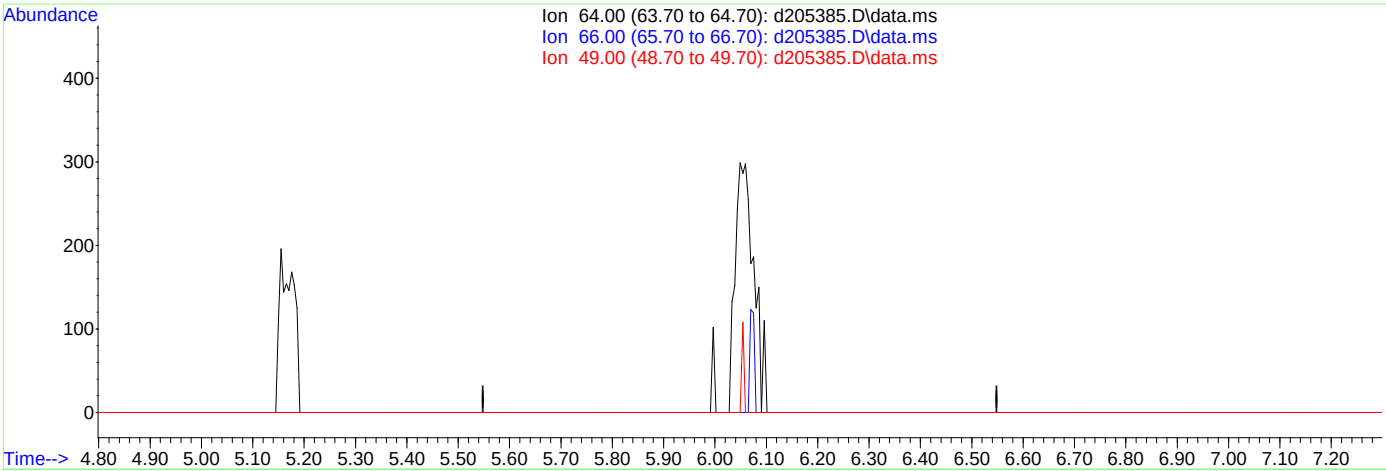
response 1255

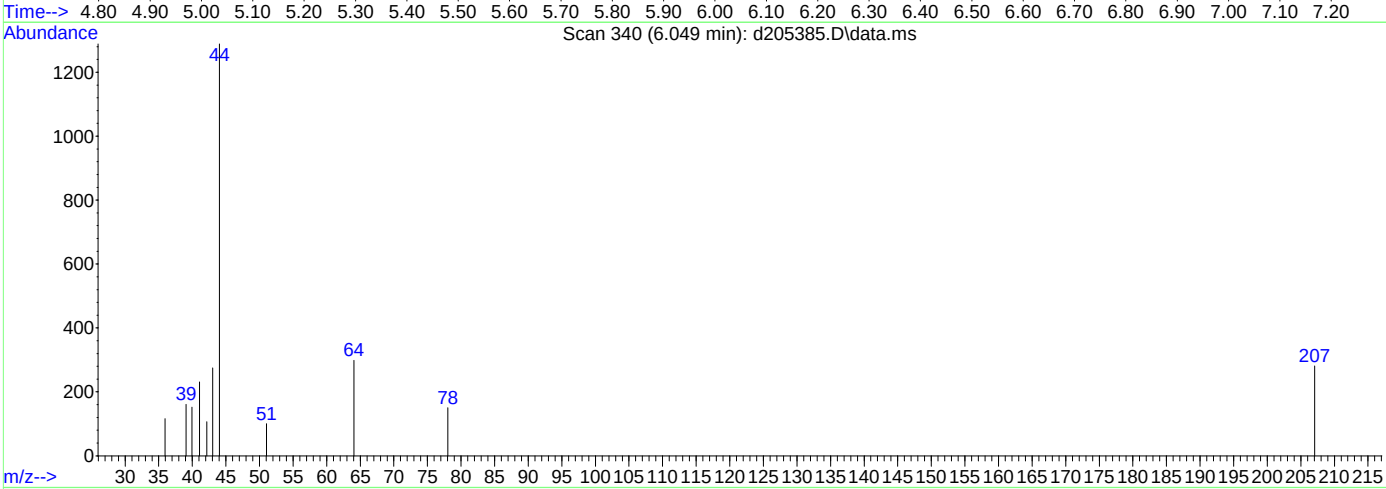
Ion	Exp%	Act%
77.00	100	100
97.00	20.10	19.63
79.00	32.10	19.07
0.00	0.00	0.00

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





TIC: d205385.D\data.ms

(11) chloroethane (M)

6.048min (-6.048) 0.00ug/L

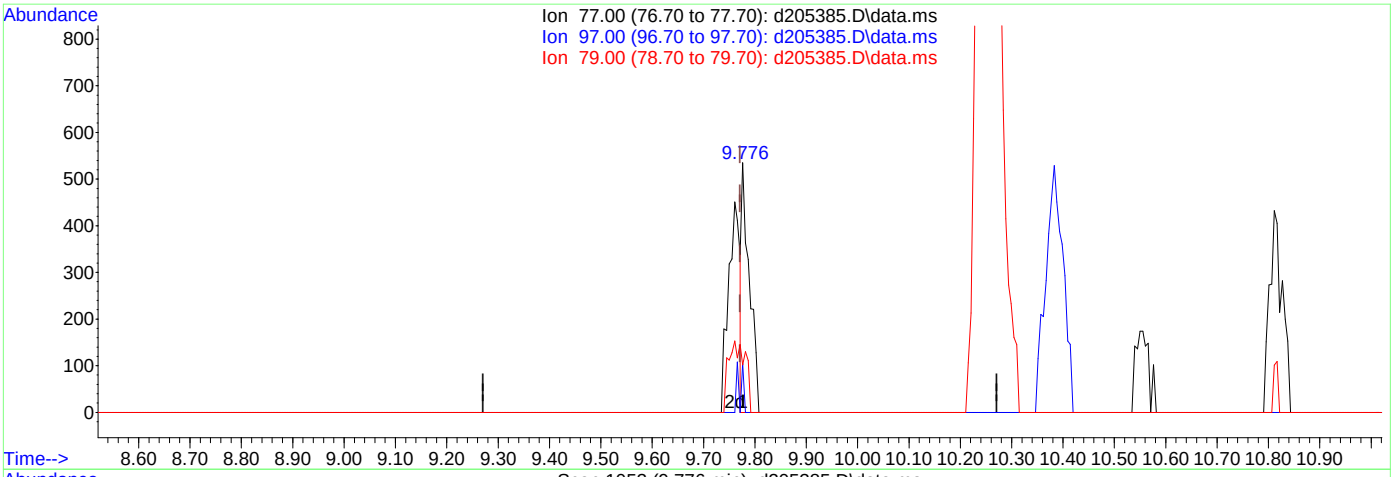
response 0

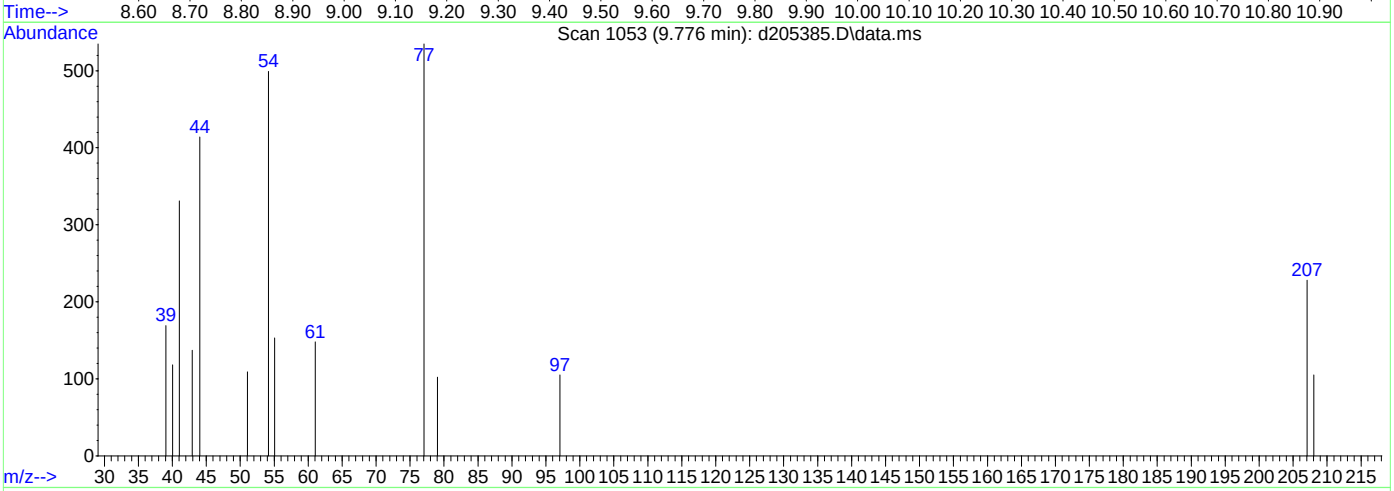
Ion	Exp%	Act%
64.00	100	0.00
66.00	31.50	0.00#
49.00	25.10	0.00
0.00	0.00	0.00

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

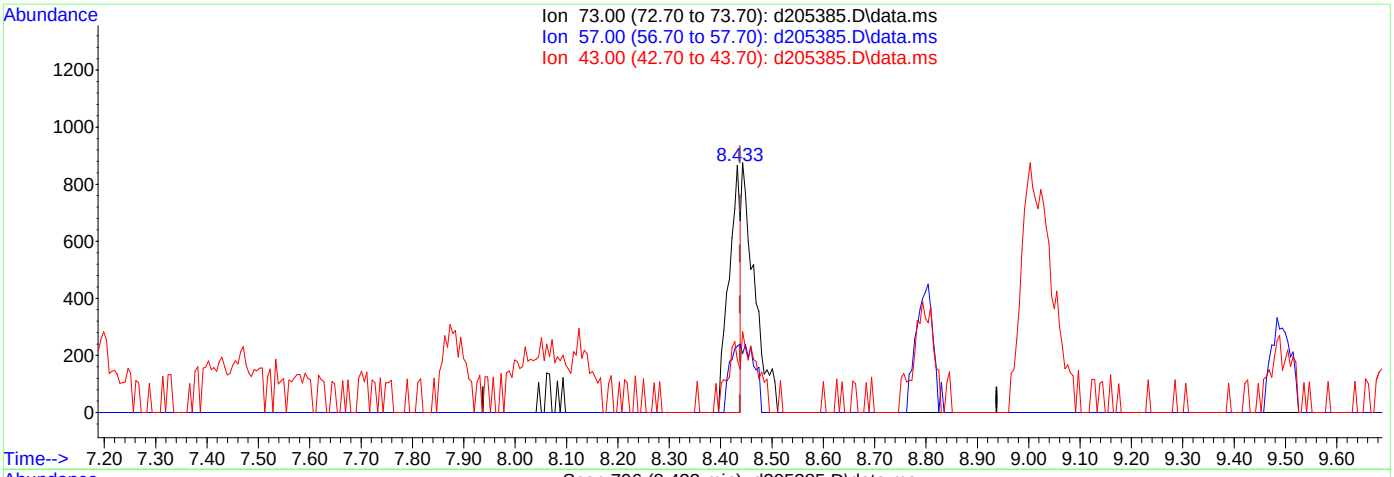
response 564

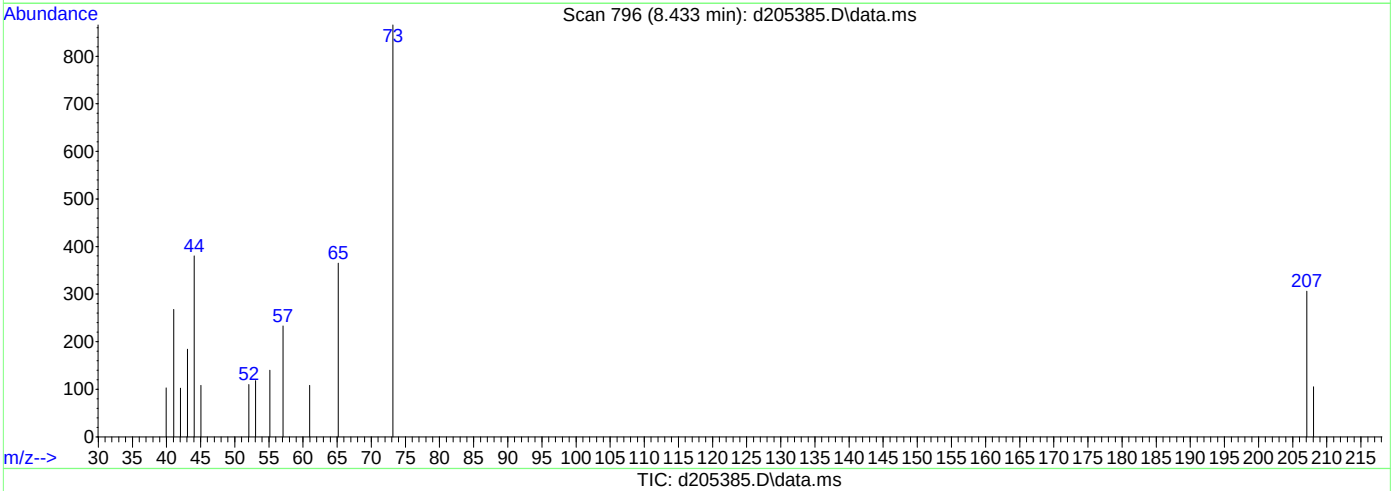
Ion	Exp%	Act%
77.00	100	100
97.00	20.10	19.63
79.00	32.10	19.07
0.00	0.00	0.00

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

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

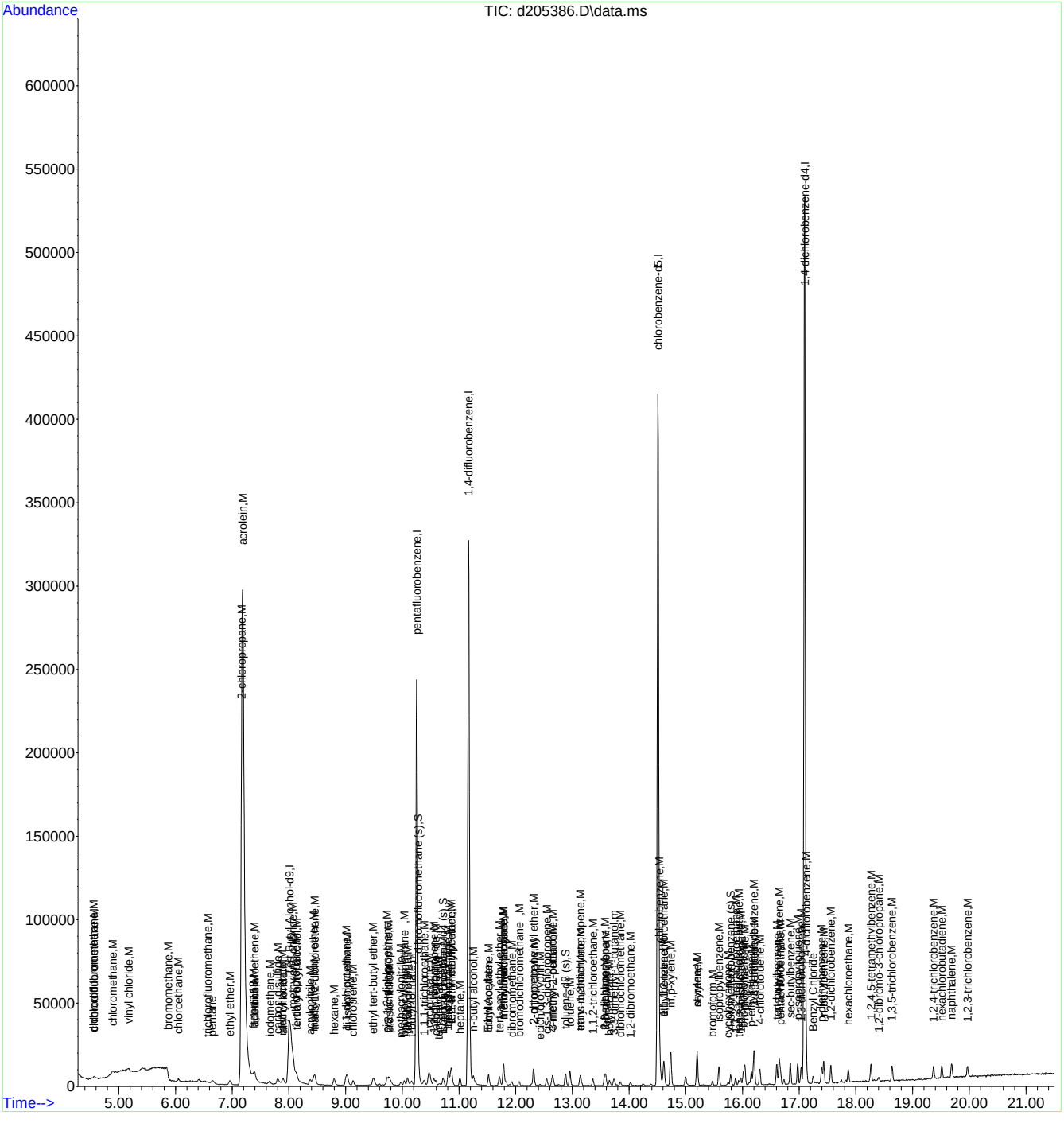
7.7.2

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



Manual Integration Approval Summary

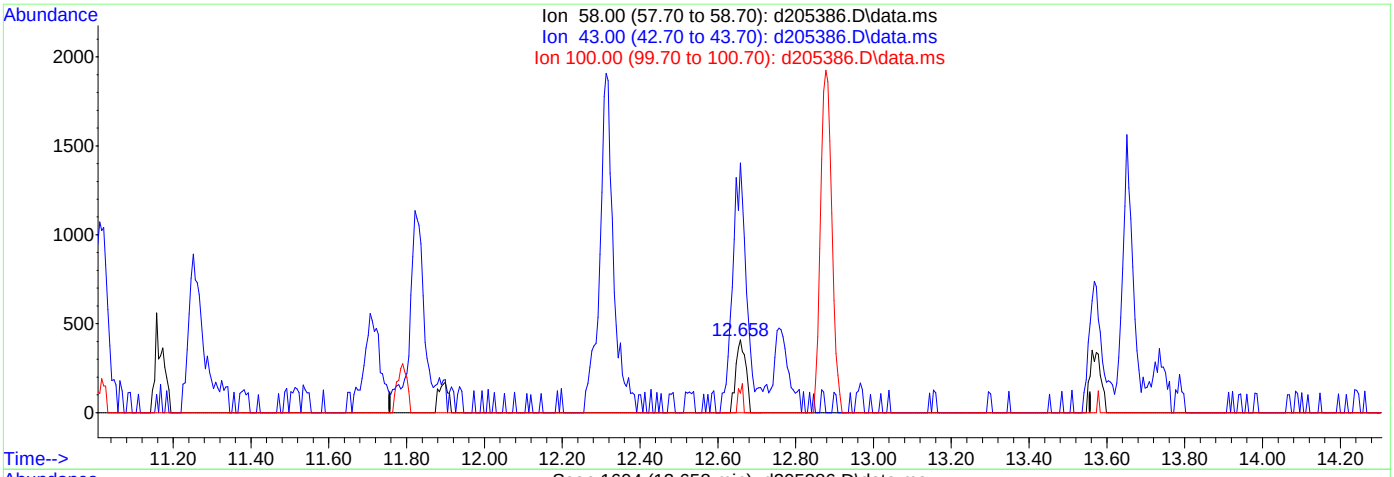
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205386.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 20:58	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

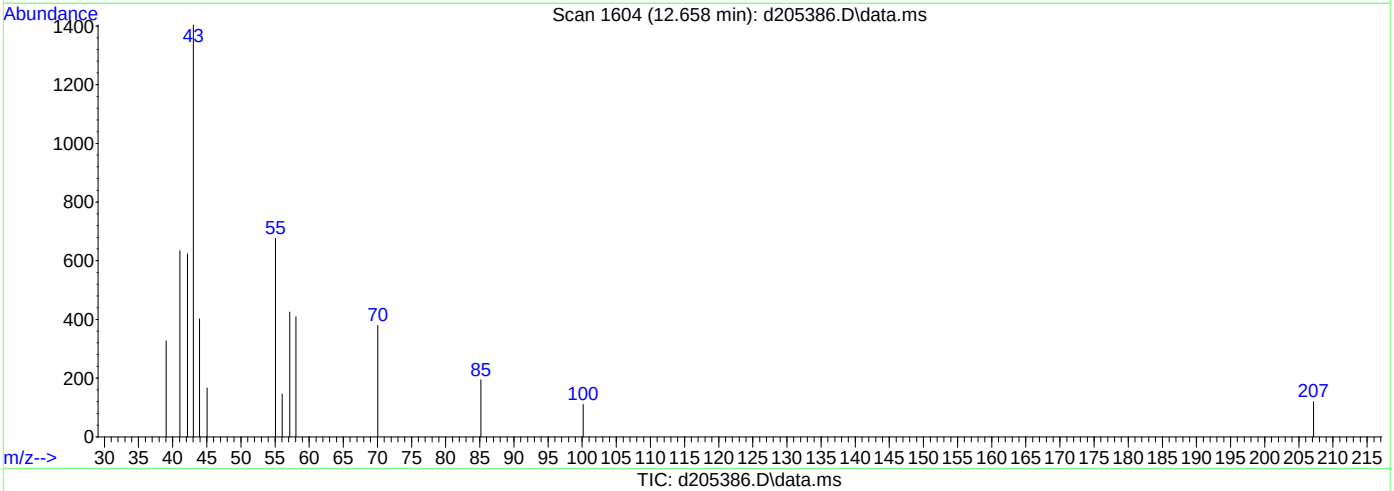
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Methyl-2-pentanone(MIBK)	108-10-1		12.66	Split peak

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

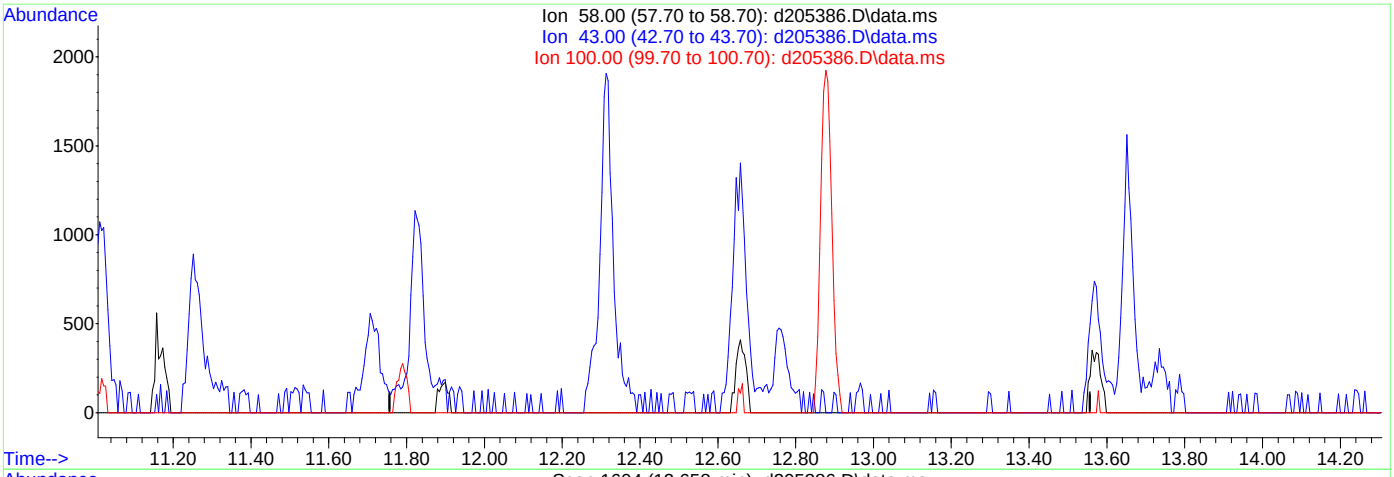
response 727

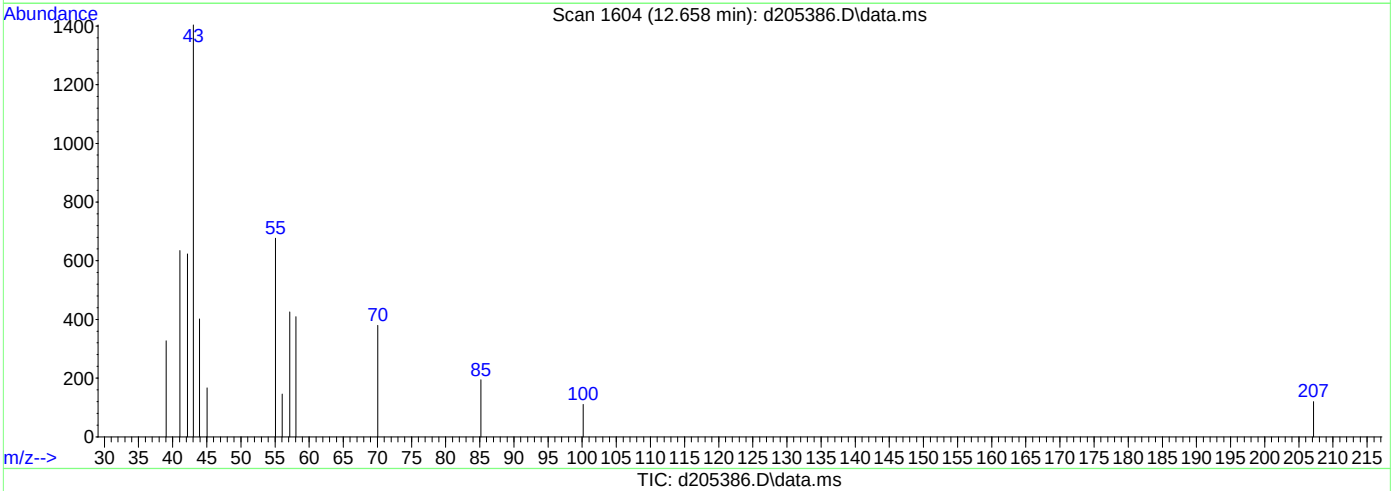
Ion	Exp%	Act%
58.00	100	100
43.00	379.70	0.00#
100.00	35.70	0.00#
0.00	0.00	0.00

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

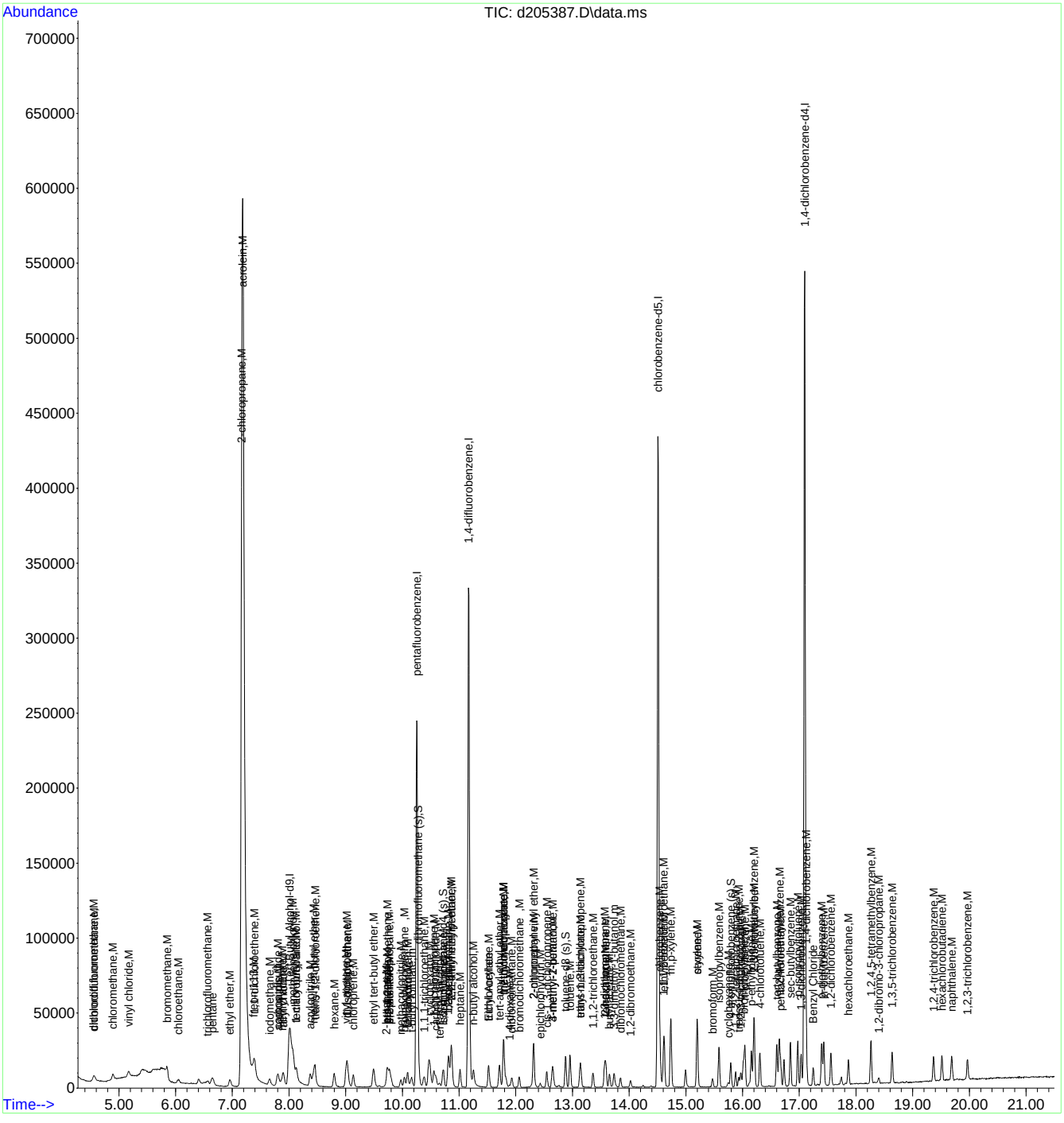
7.7.3

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



Manual Integration Approval Summary

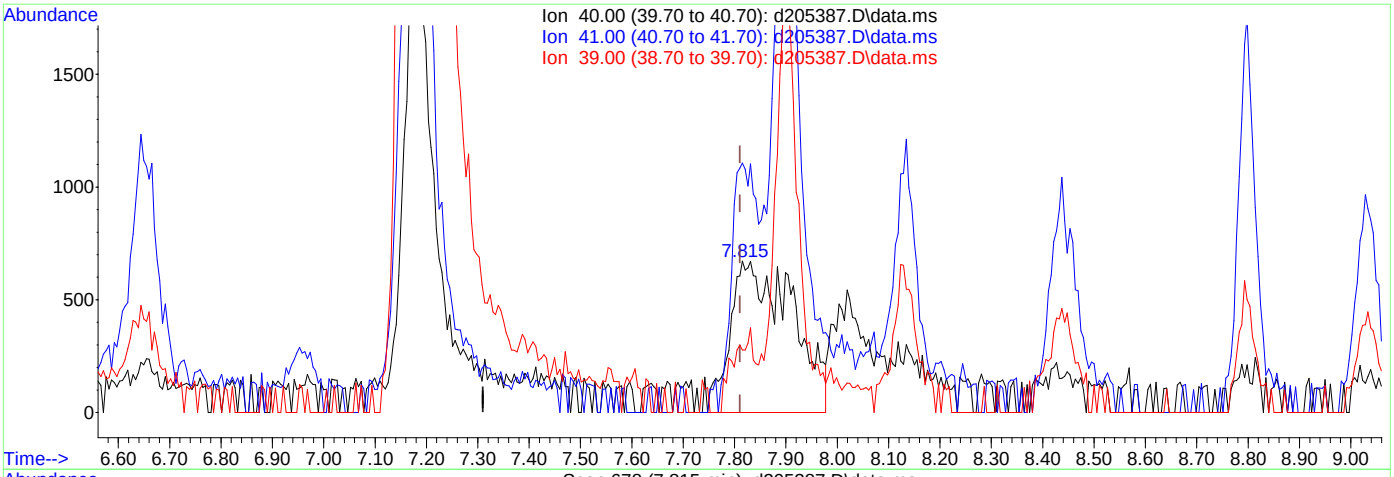
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205387.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 21:28	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

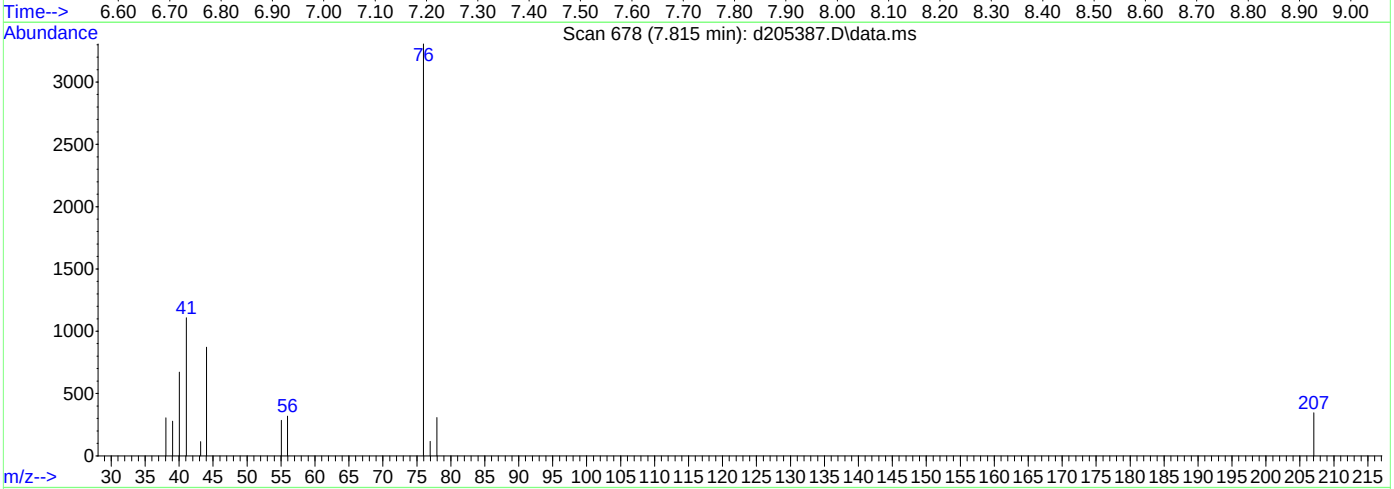
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak
2-Butanone (MEK)	78-93-3		9.71	Split peak

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

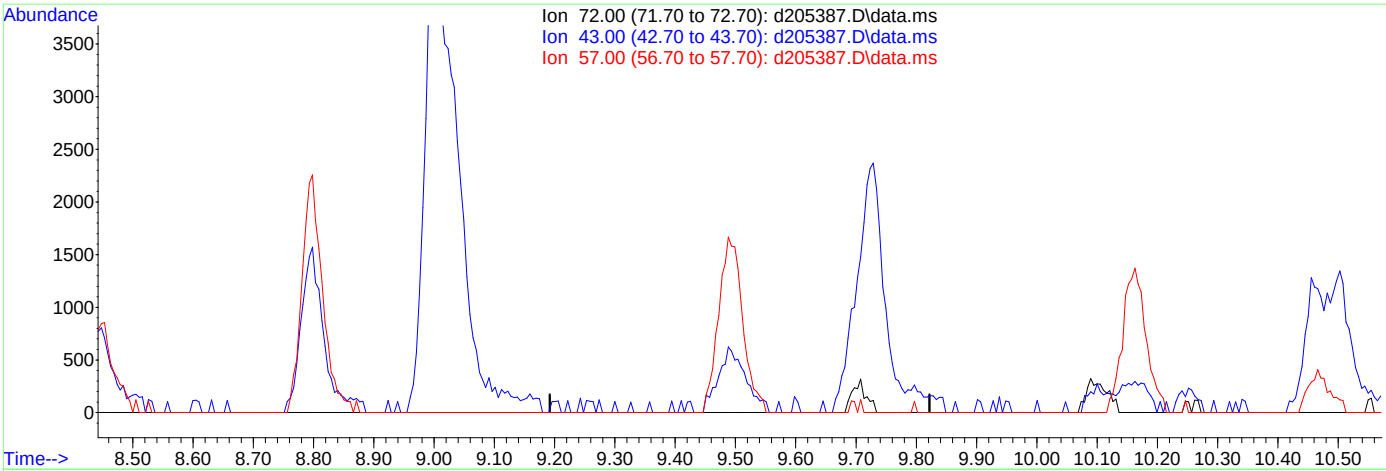
response 5655

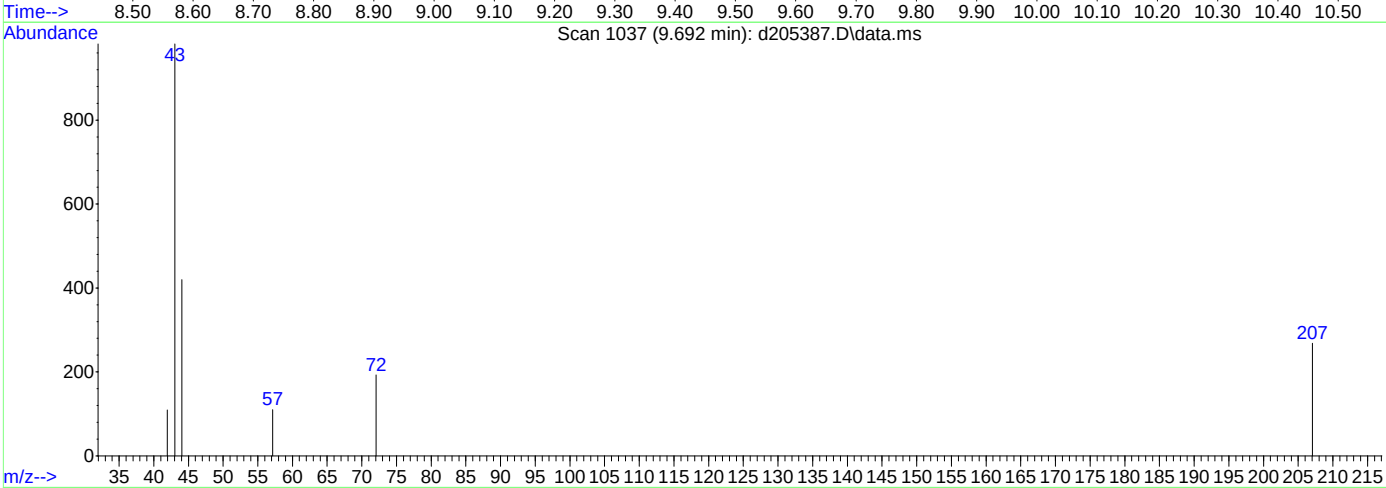
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	164.73
39.00	37.10	24.70
0.00	0.00	0.00

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
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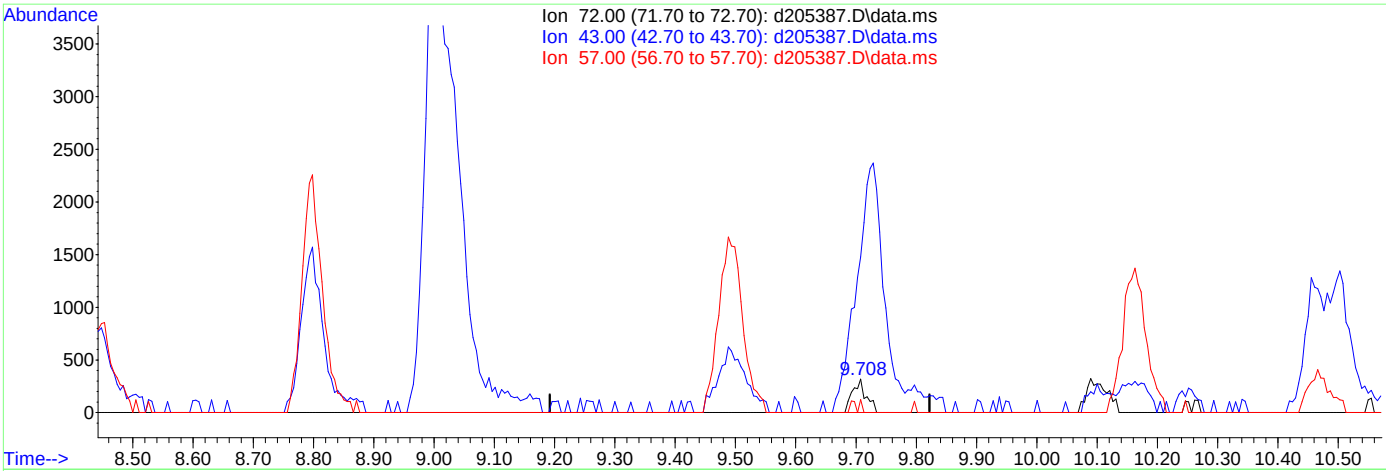

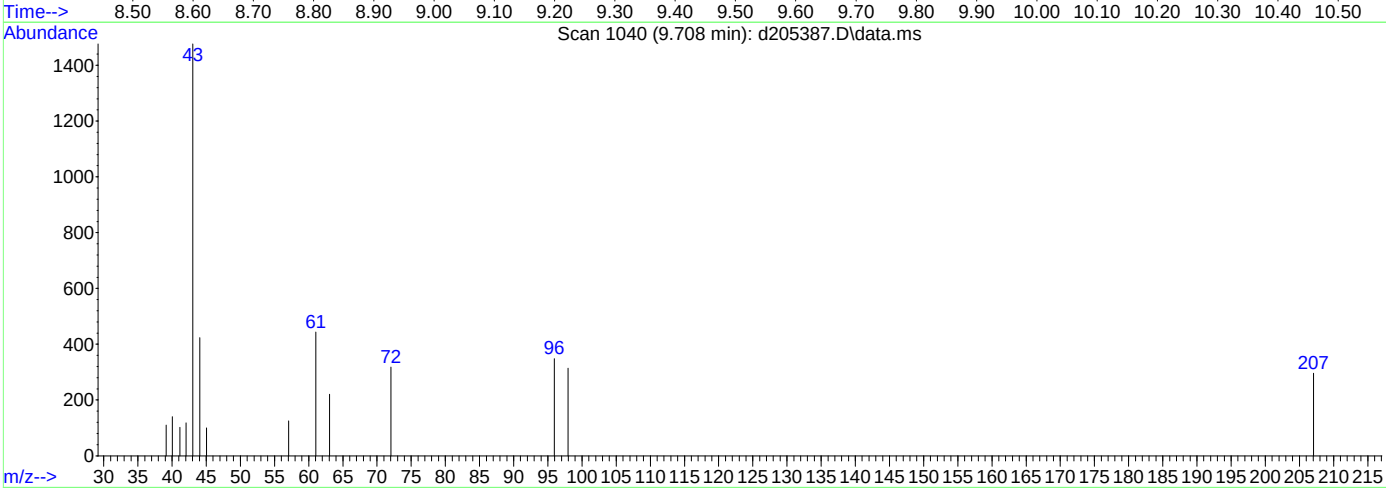

TIC: d205387.D\data.ms

(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

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
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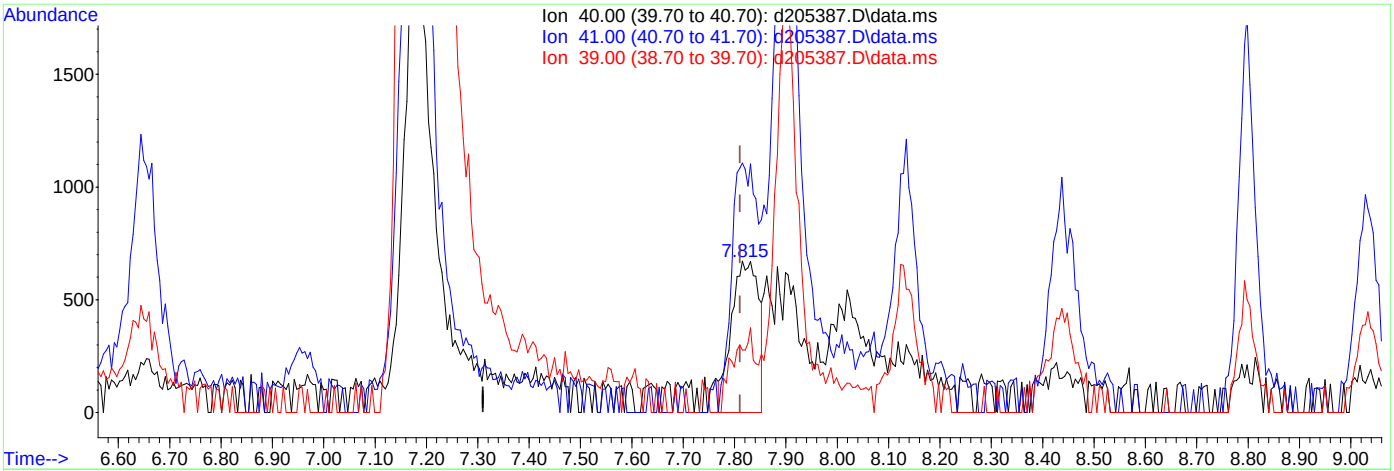
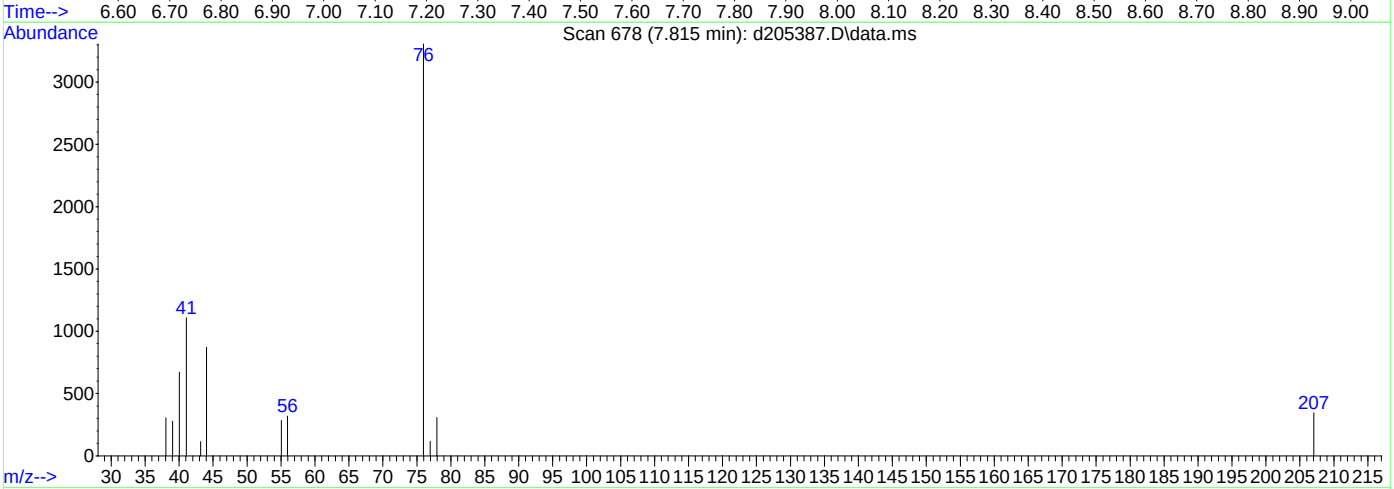




TIC: d205387.D\data.ms

(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

7.7.3.5 7

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

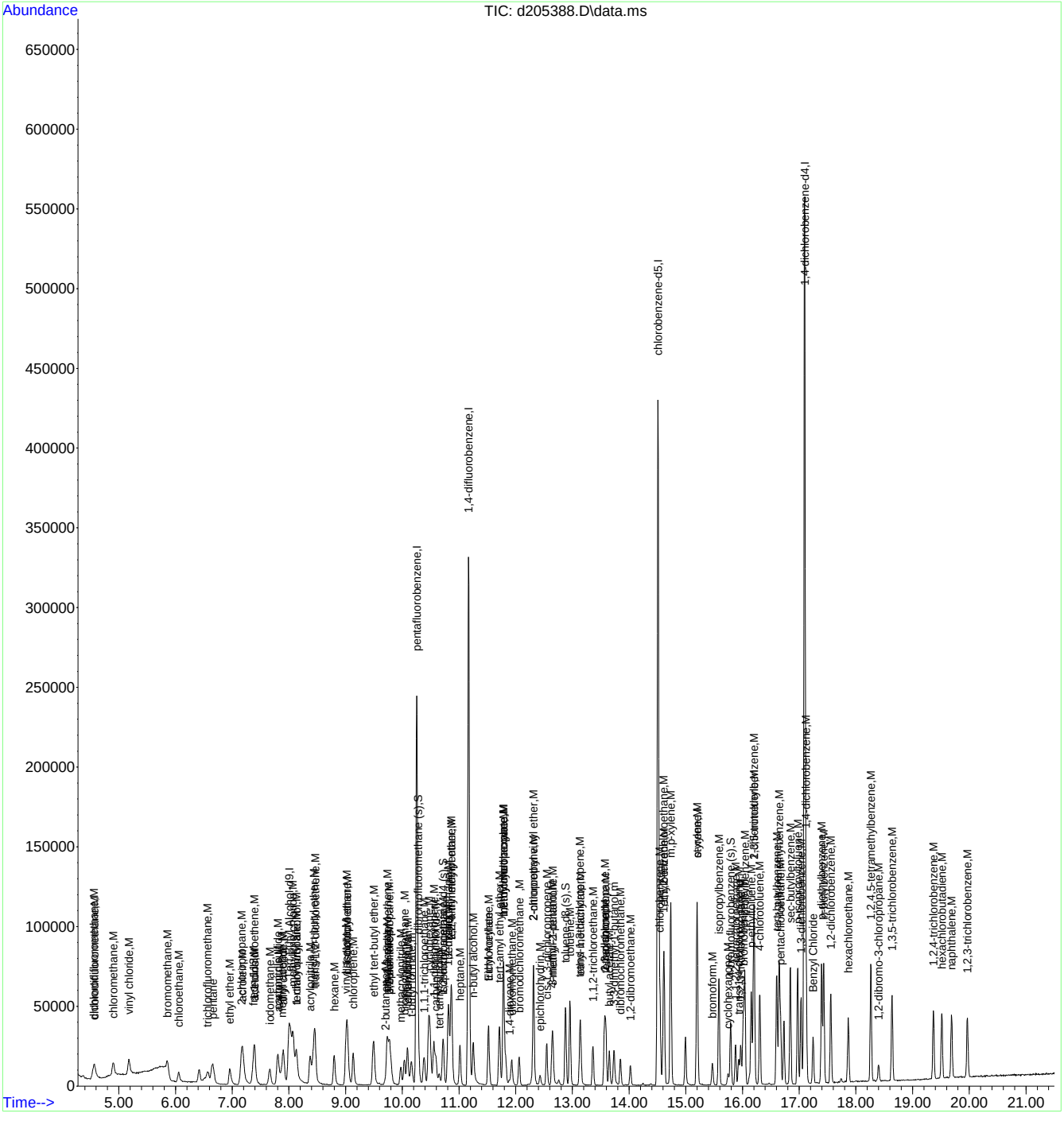
7.7.4

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

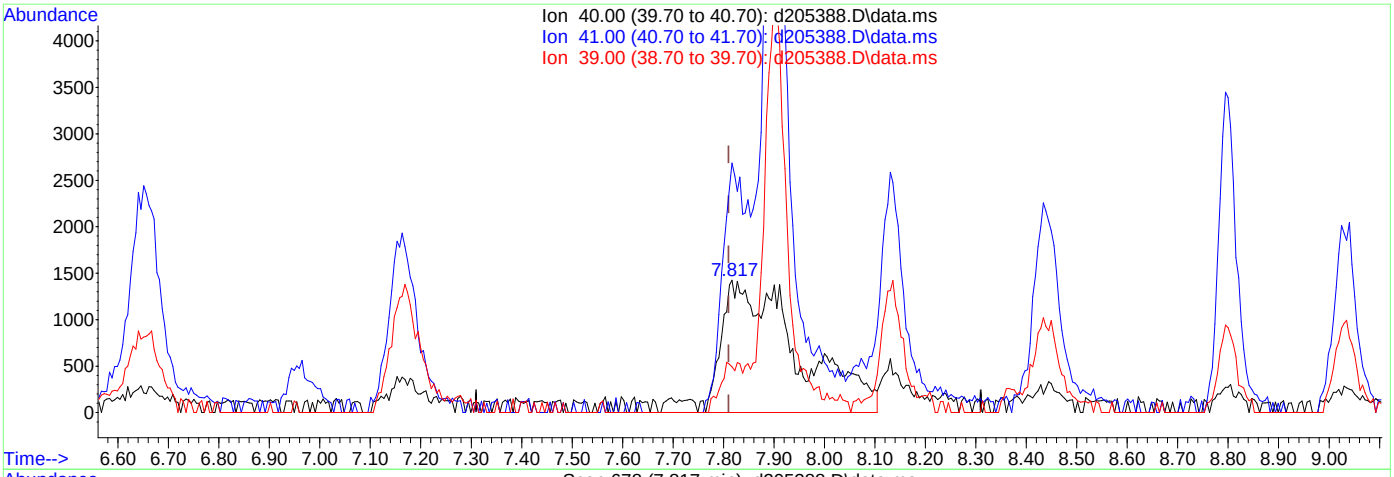
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205388.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 21:57	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

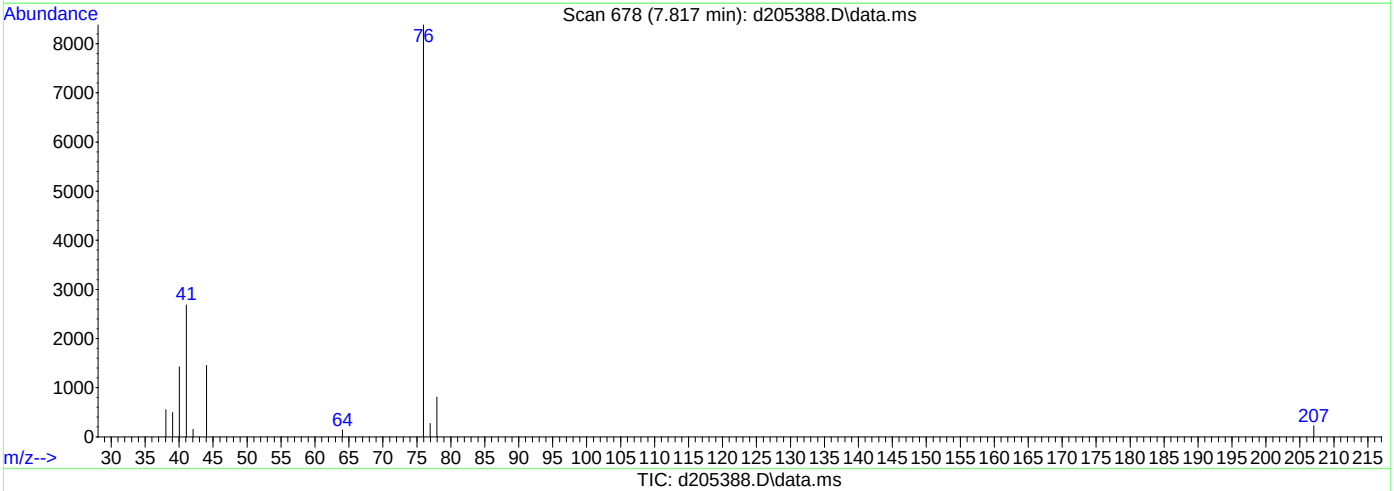
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Split peak

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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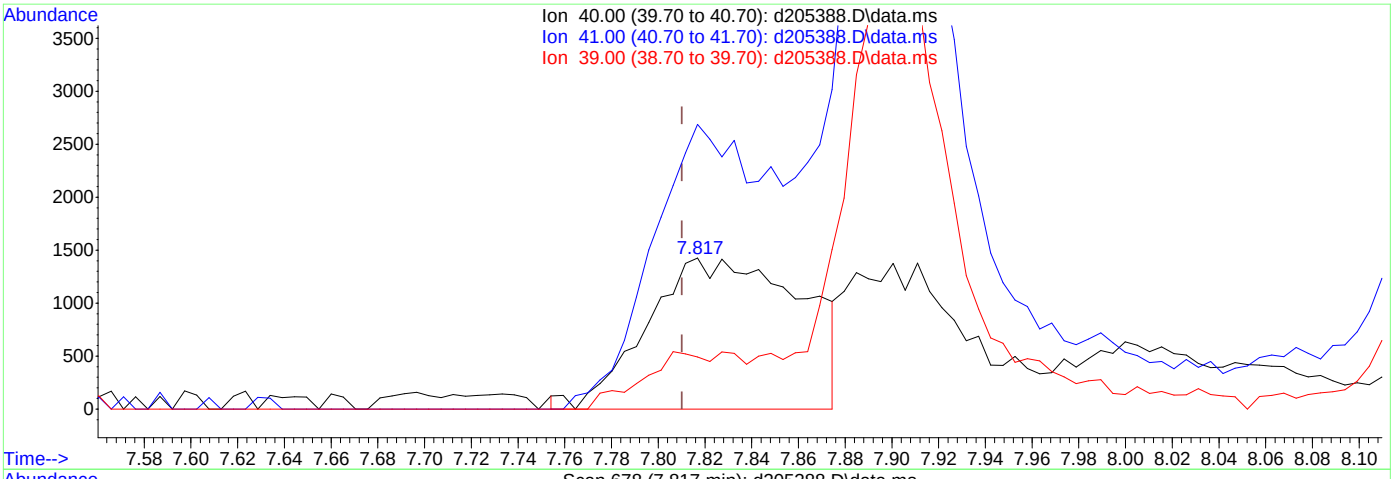
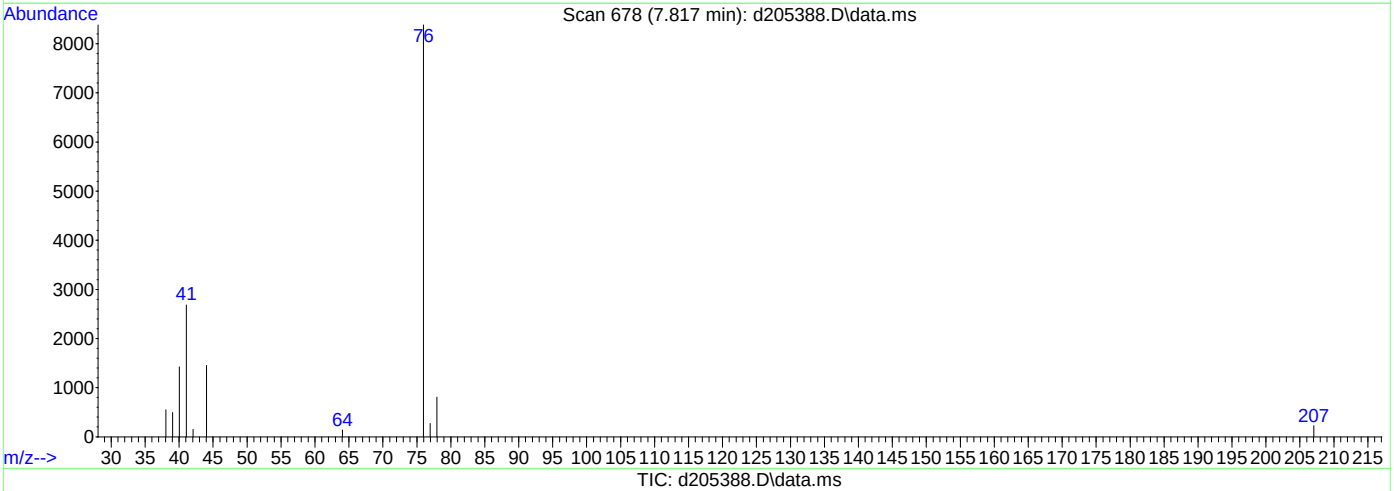




TIC: d205388.D\data.ms

(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

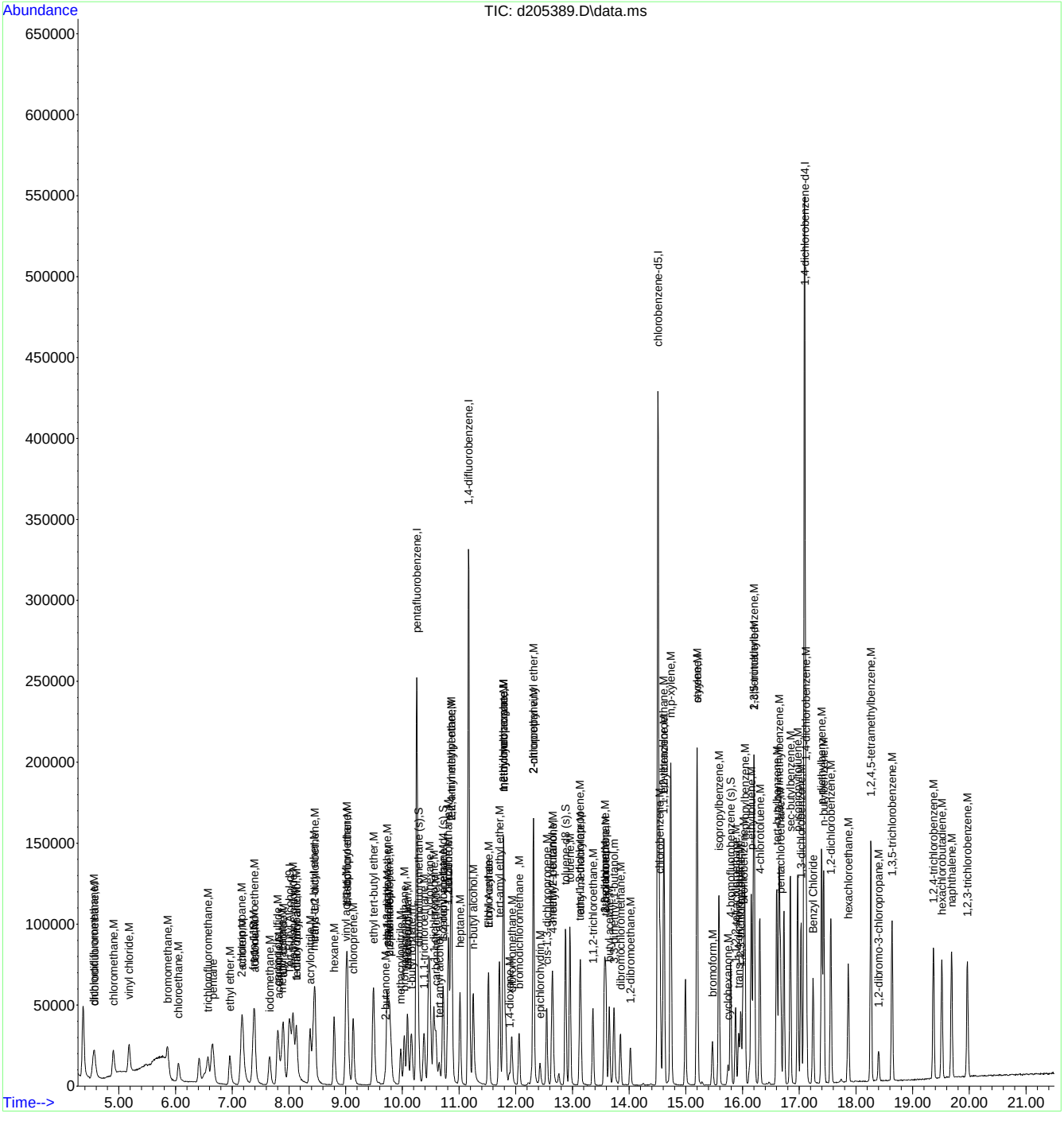
7.7.5

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

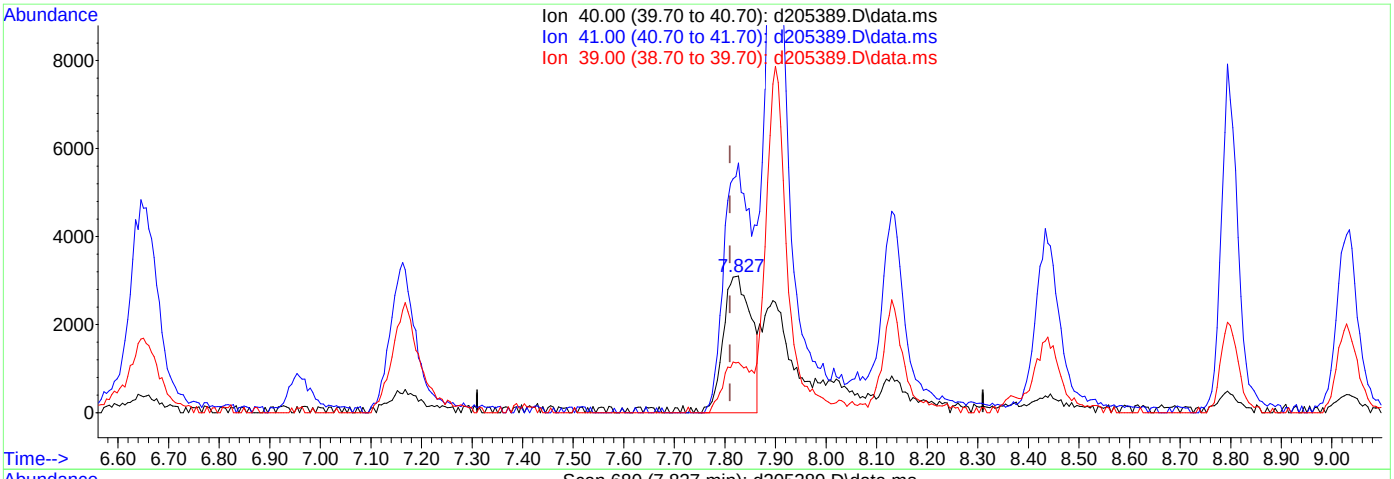
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205389.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 22:27	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

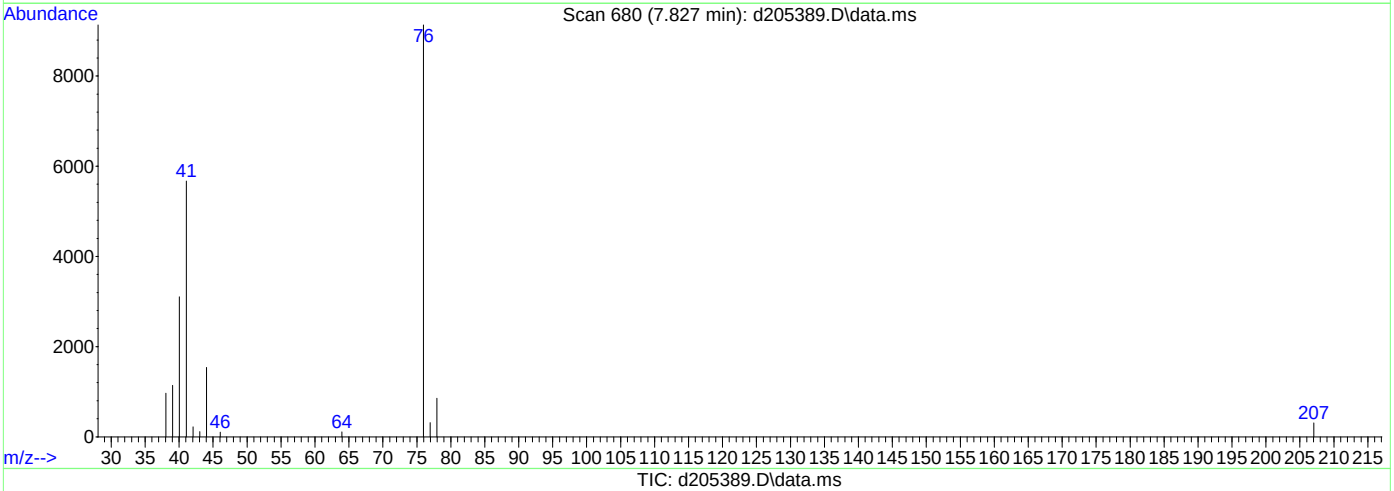
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Split peak

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

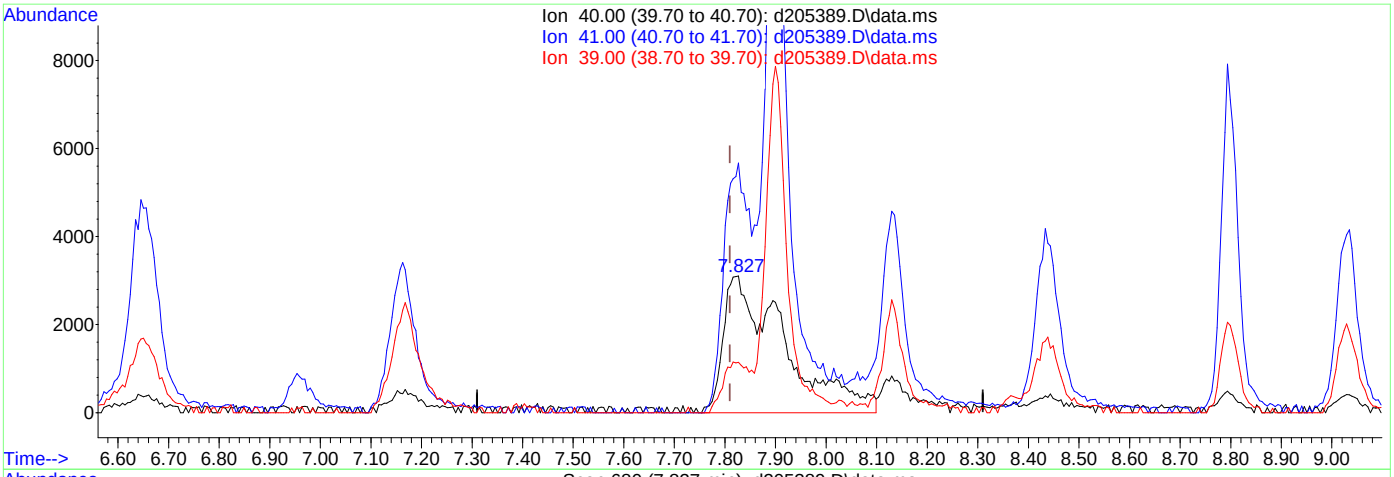
response 11854

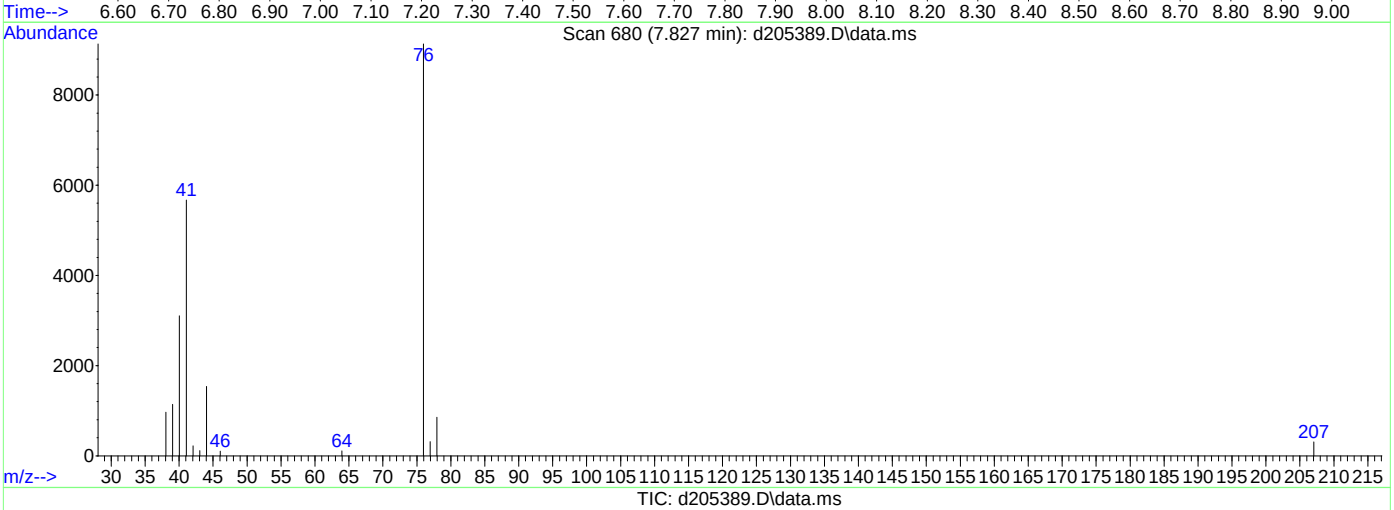
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	182.68
39.00	37.10	36.77
0.00	0.00	0.00

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

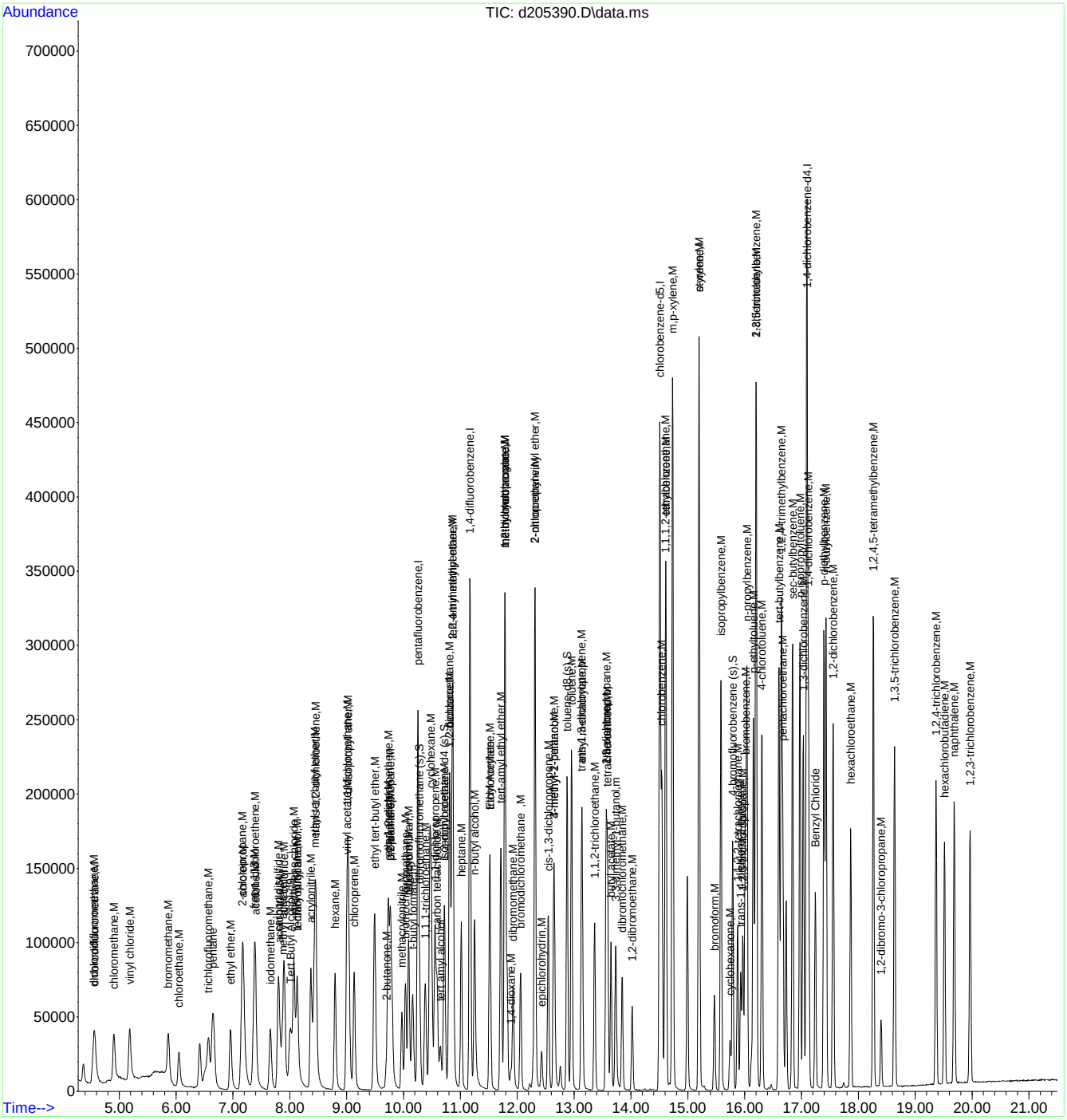
7.7.6

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
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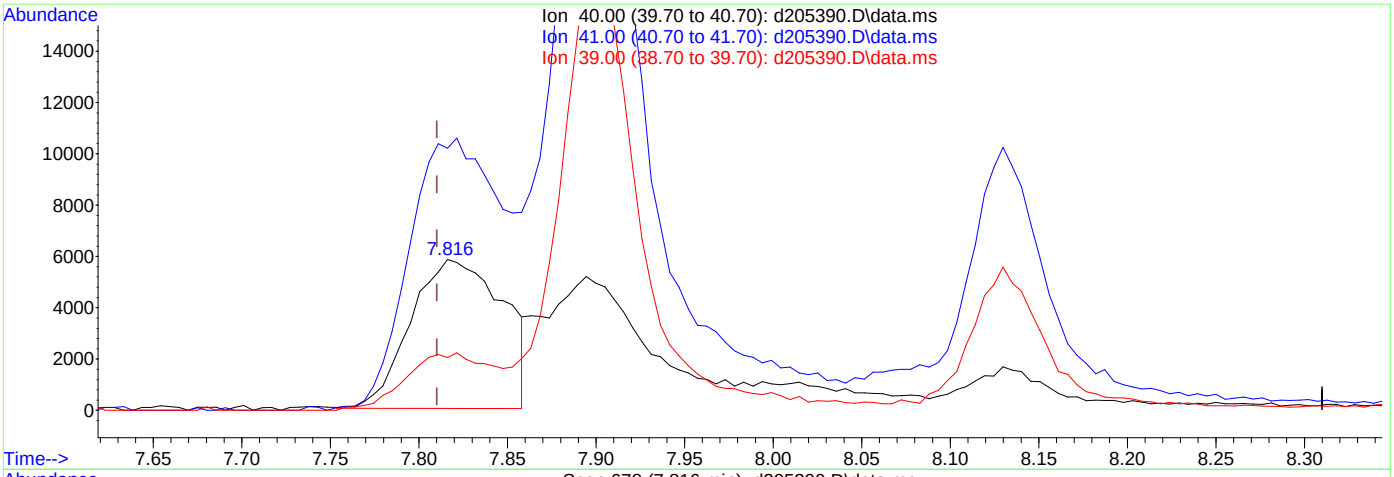
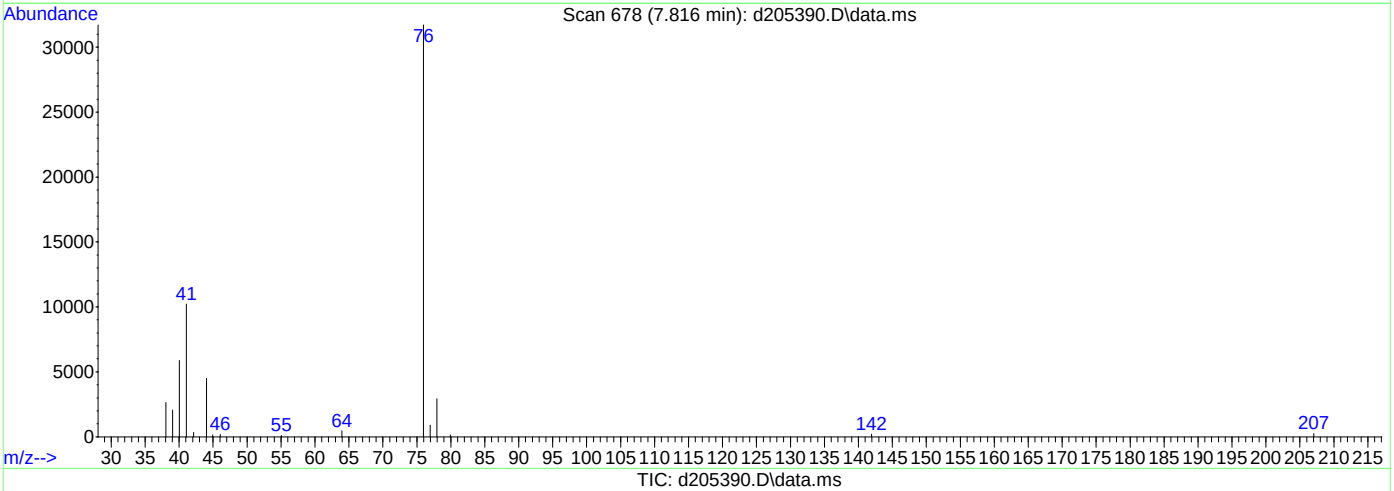




TIC: d205390.D\data.ms

(22) acetonitrile (M)

7.816min (+0.006) 154.61ug/L m

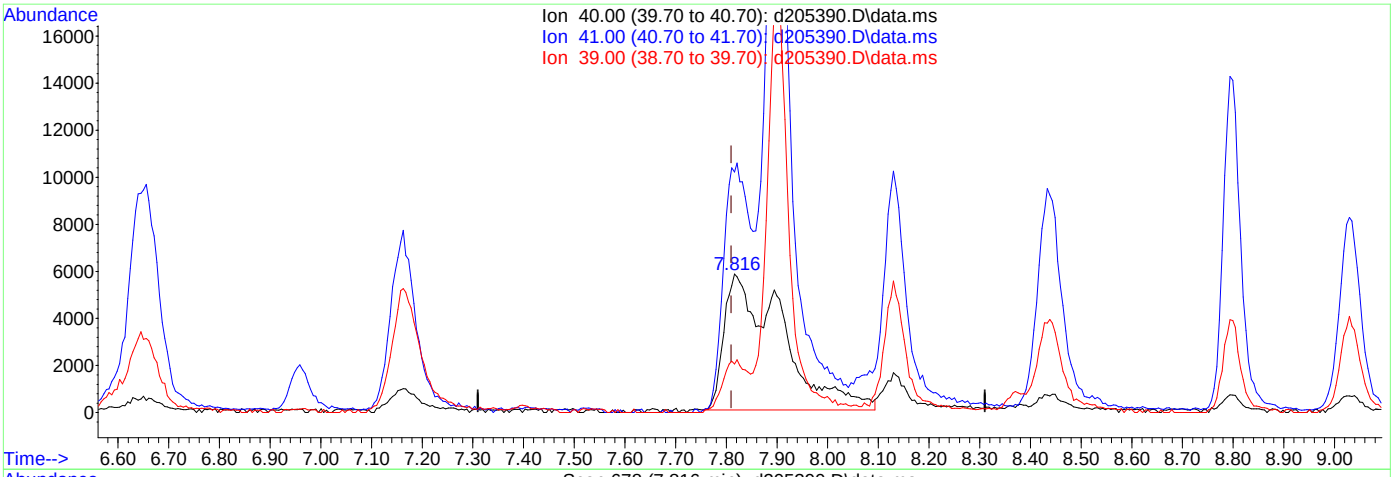
response 21166

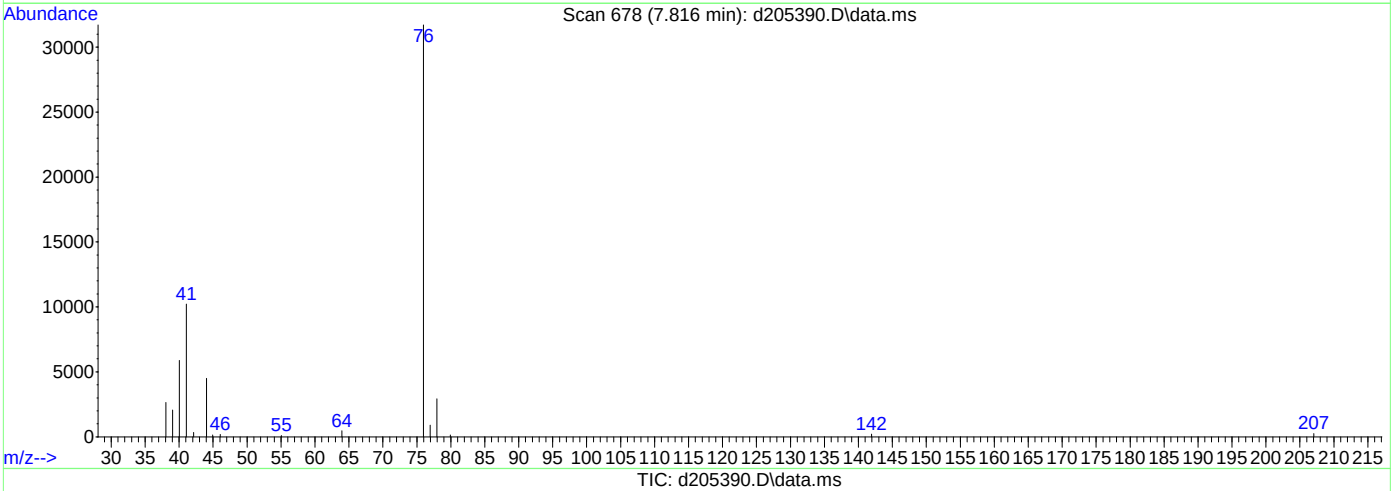
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	173.63
39.00	37.10	35.06
0.00	0.00	0.00

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

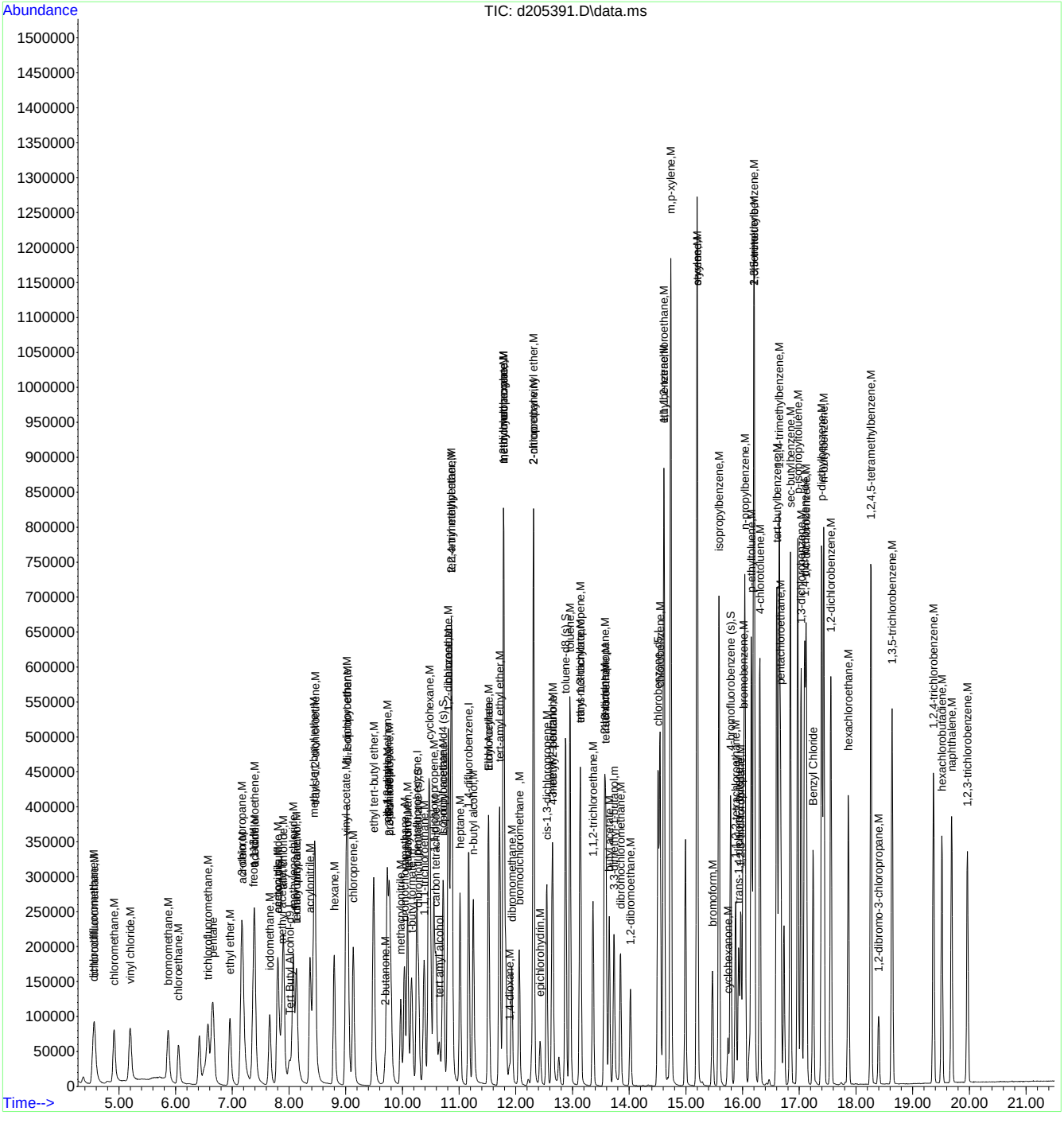
7.2.7

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

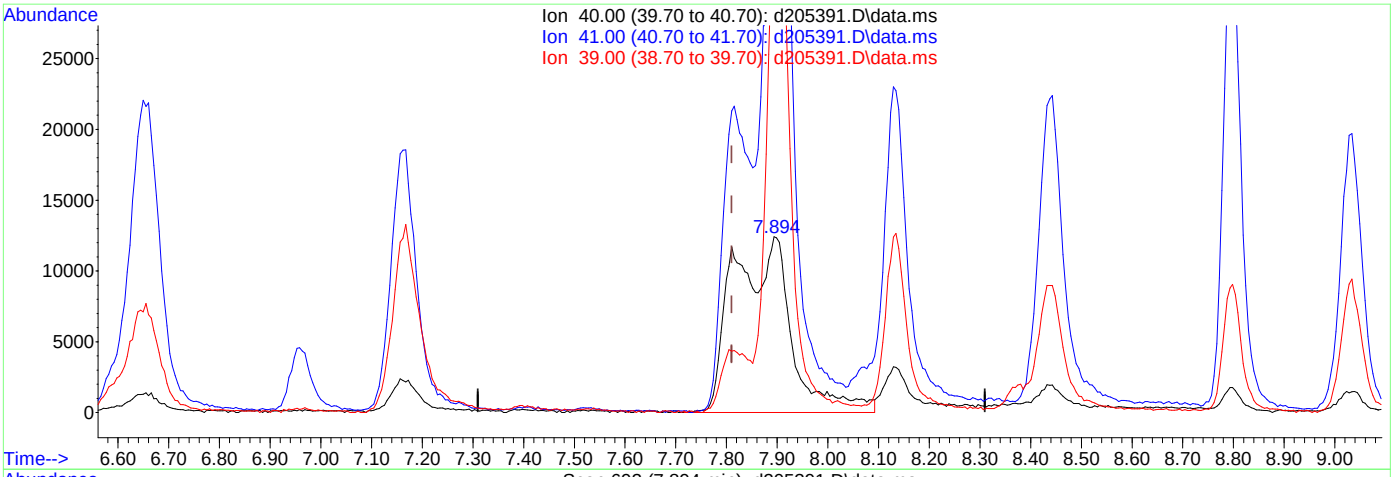
Sample Number:	VD8379-ICC8379	**Method:**	SW846 8260B
Lab FileID:	D205391.D	**Analyst approved:**	02/18/13 02:37 Kanya Veerawat
Injection Time:	02/11/13 23:26	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

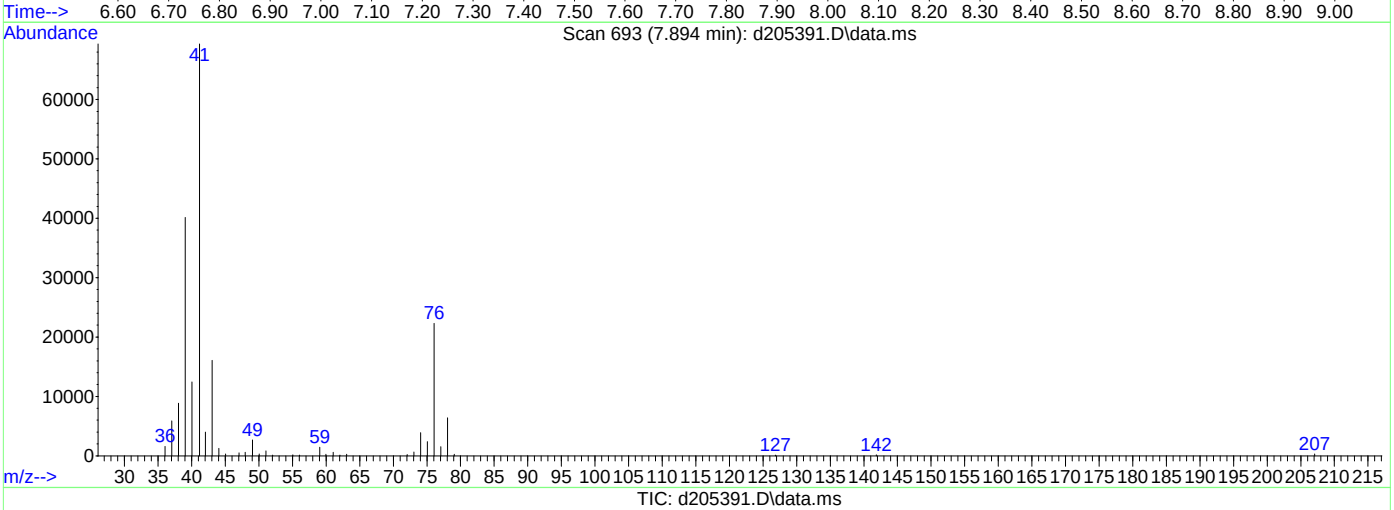
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.81	Poor instrument integration

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

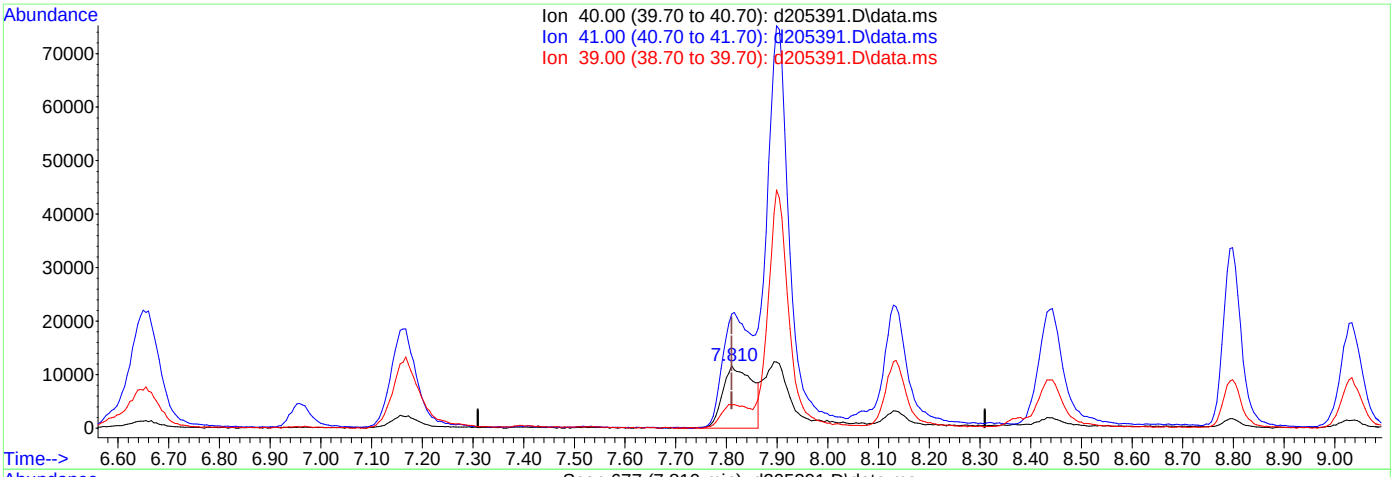
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	557.34#
39.00	37.10	322.05#
0.00	0.00	0.00

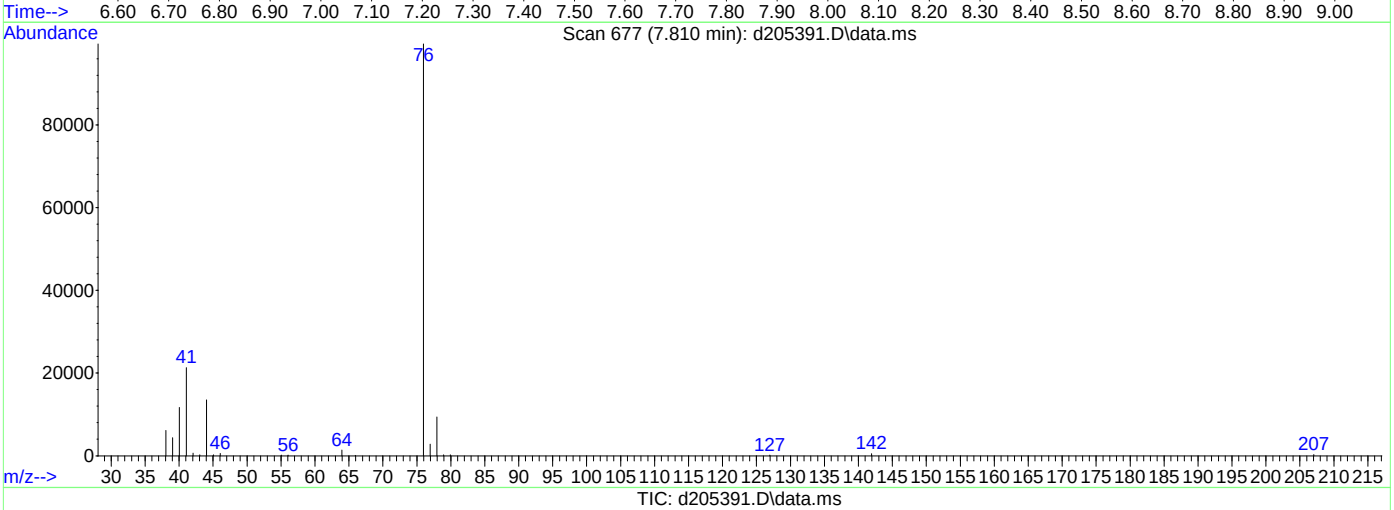
ACCUTEST LABORATORIES JB28370

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

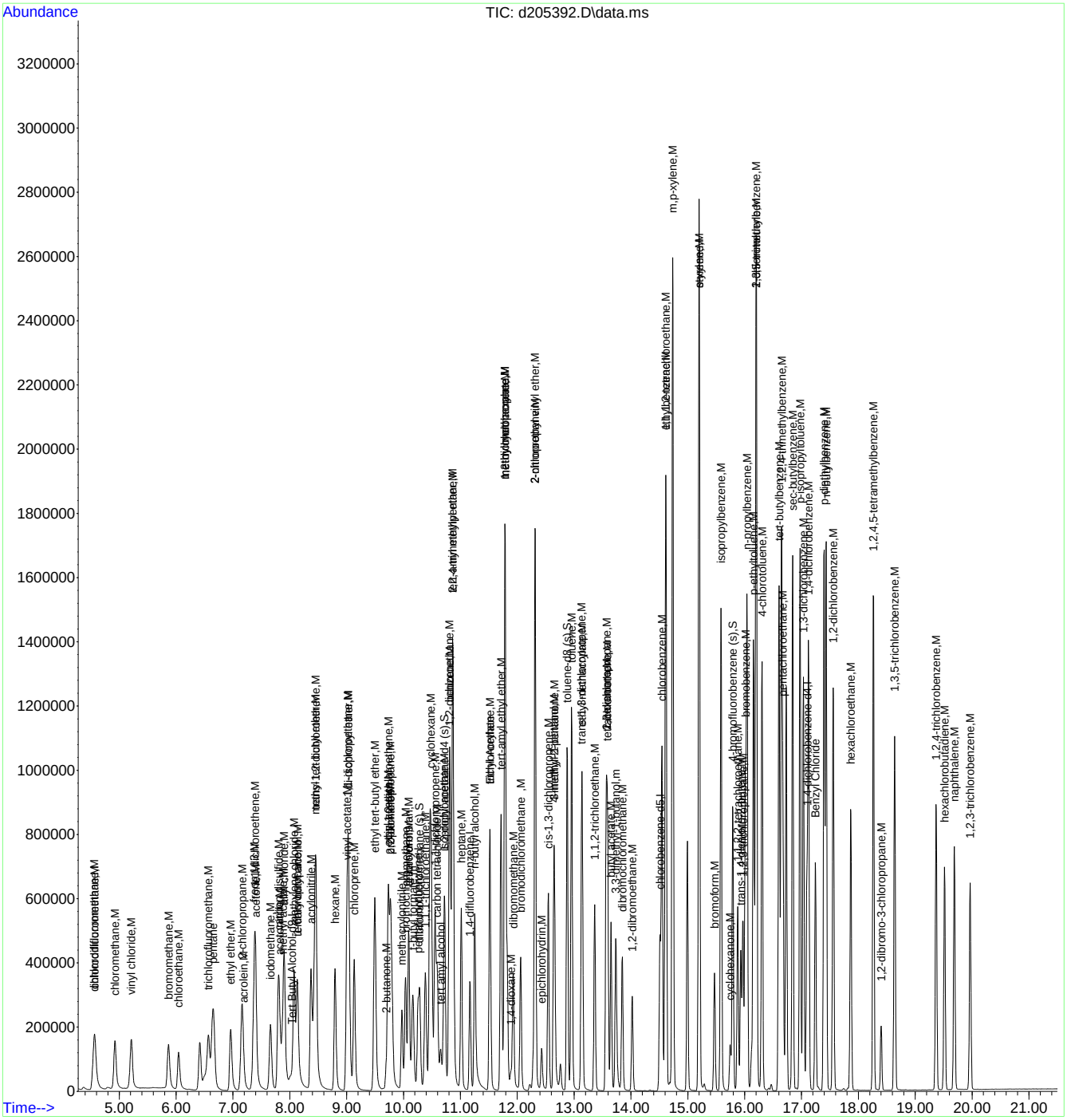
7.7.8

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

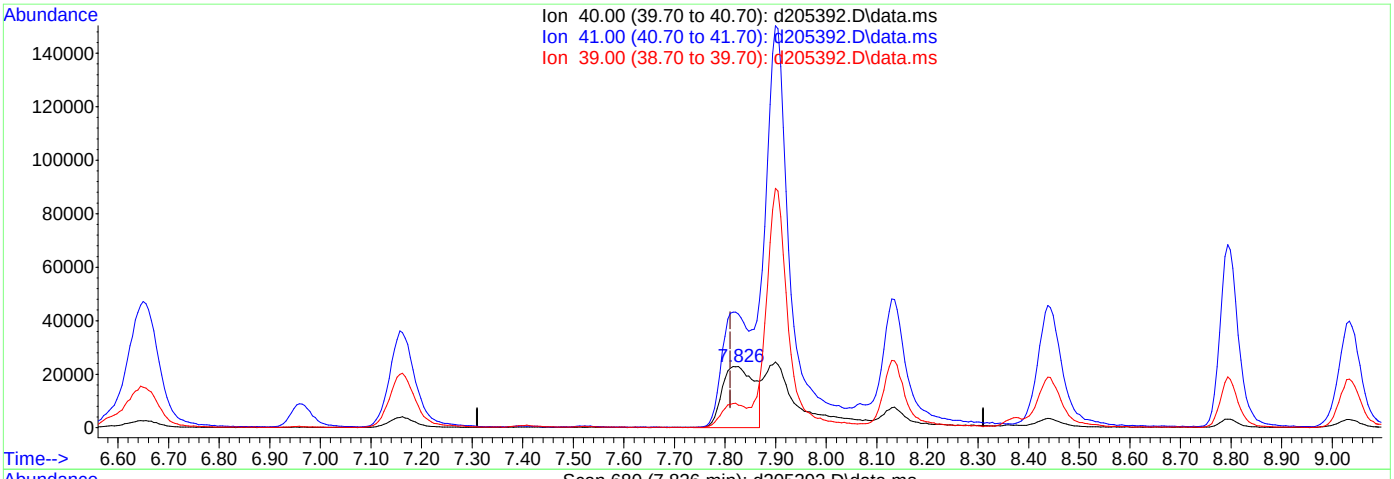
Sample Number:	VD8379-IC8379	**Method:**	SW846 8260B
Lab FileID:	D205392.D	**Analyst approved:**	02/12/13 09:40 Ying Li
Injection Time:	02/11/13 23:55	**Supervisor approved:**	02/18/13 02:57 Kanya Veerawat

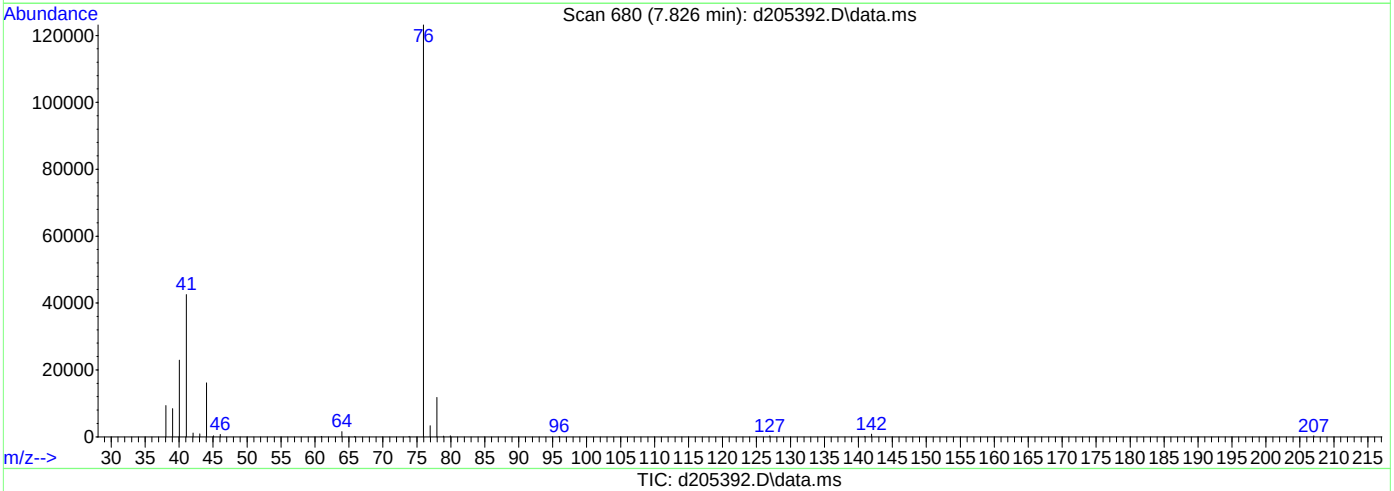
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Split peak

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





TIC: d205392.D\data.ms

(22) acetonitrile (M)

7.826min (+0.016) 725.49ug/L m

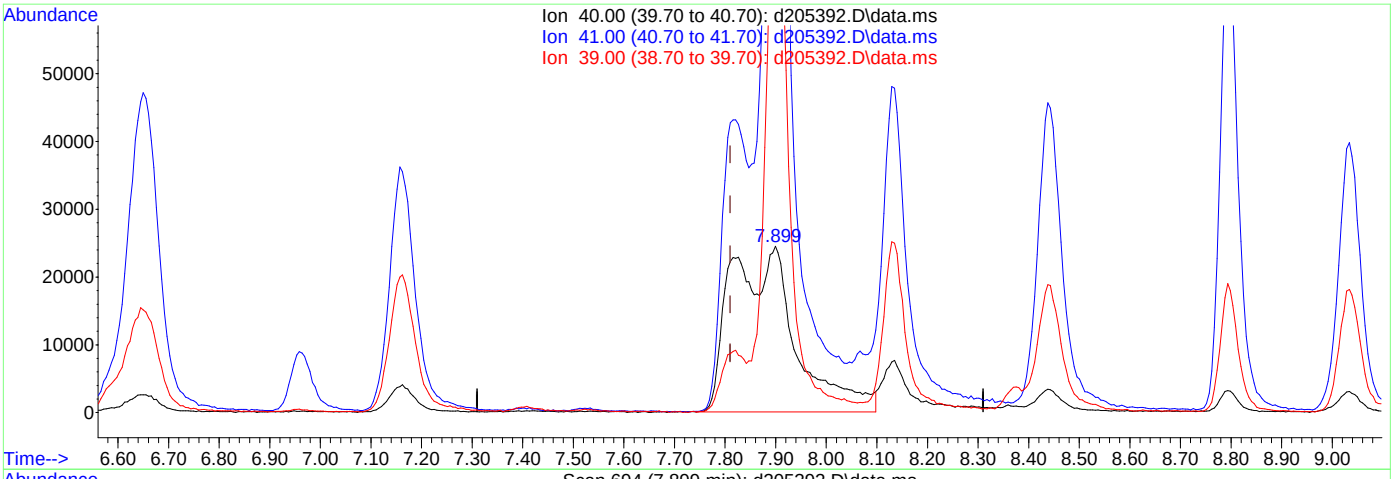
response 101416

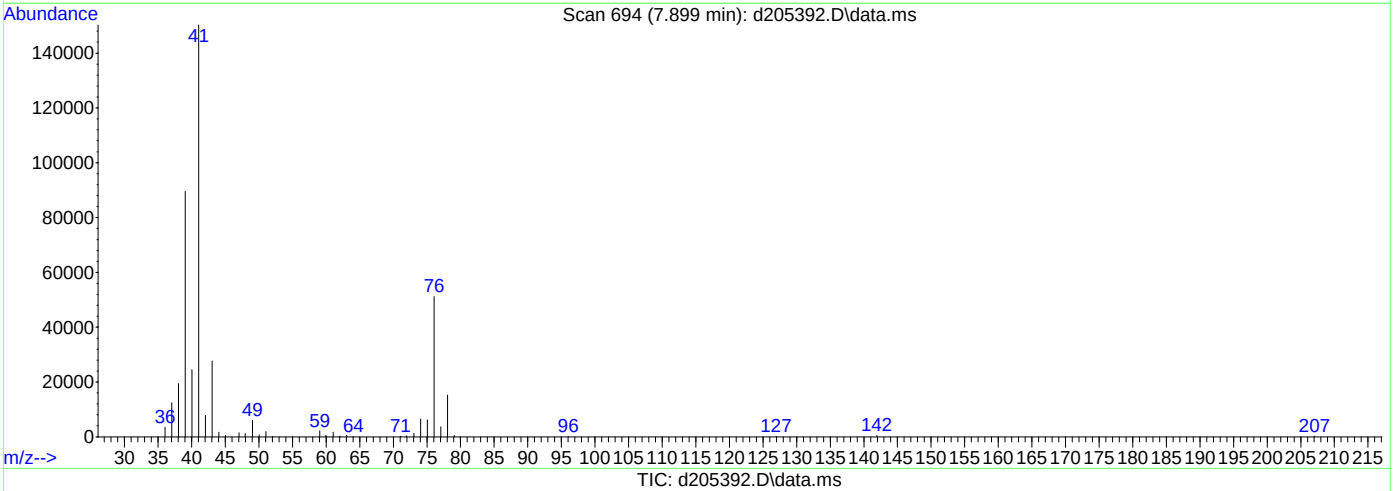
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	185.54
39.00	37.10	36.95
0.00	0.00	0.00

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

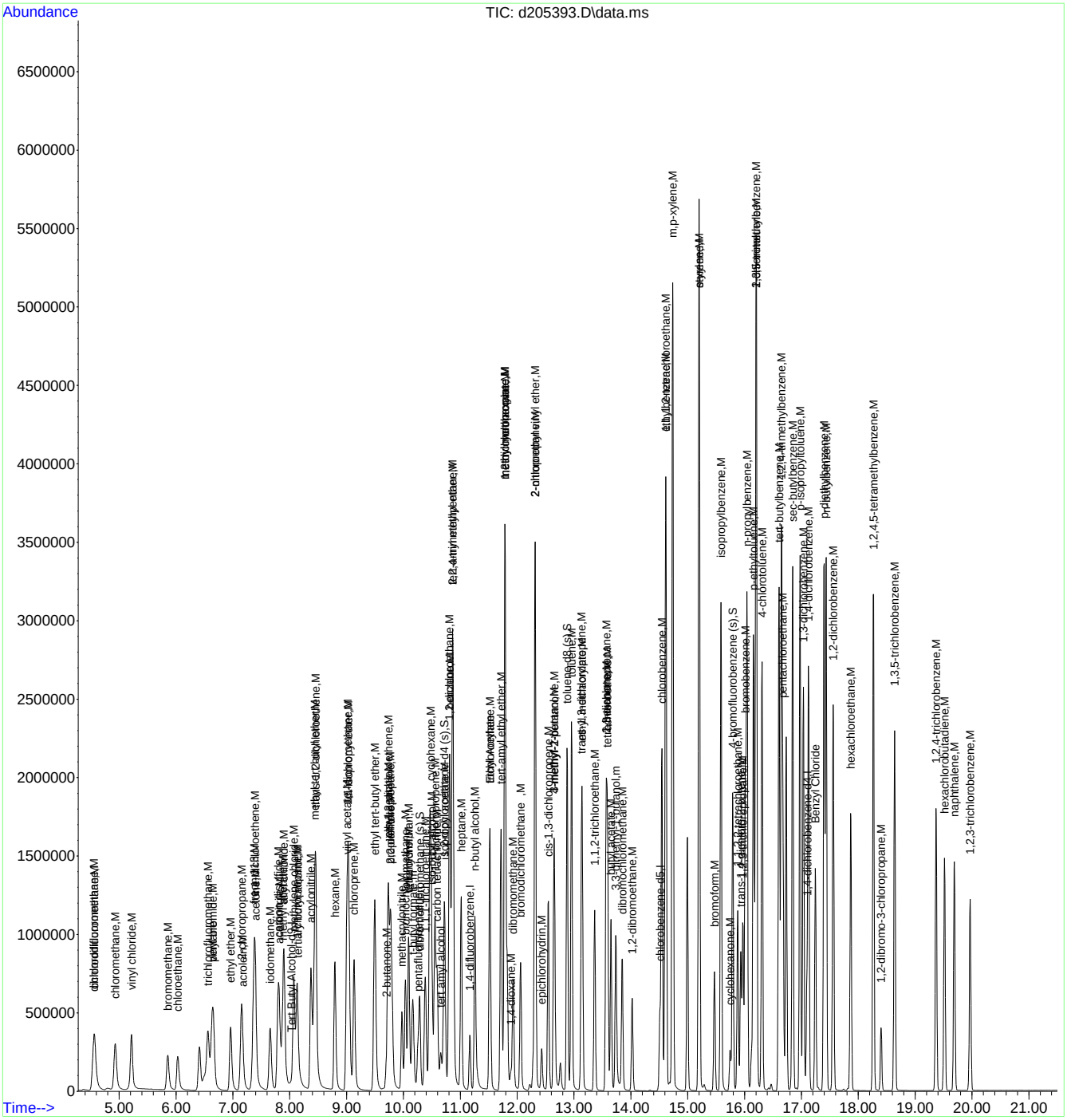
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
112) tert-butylbenzene	16.605	119	1719396	203.65 ug/L	98
113) pentachloroethane	16.673	167	375883	199.65 ug/L	99
114) 1,2,4-trimethylbenzene	16.647	105	2027898	198.33 ug/L	99
115) sec-butylbenzene	16.846	105	2466539	198.33 ug/L	97
116) 1,3-dichlorobenzene	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 JB28370

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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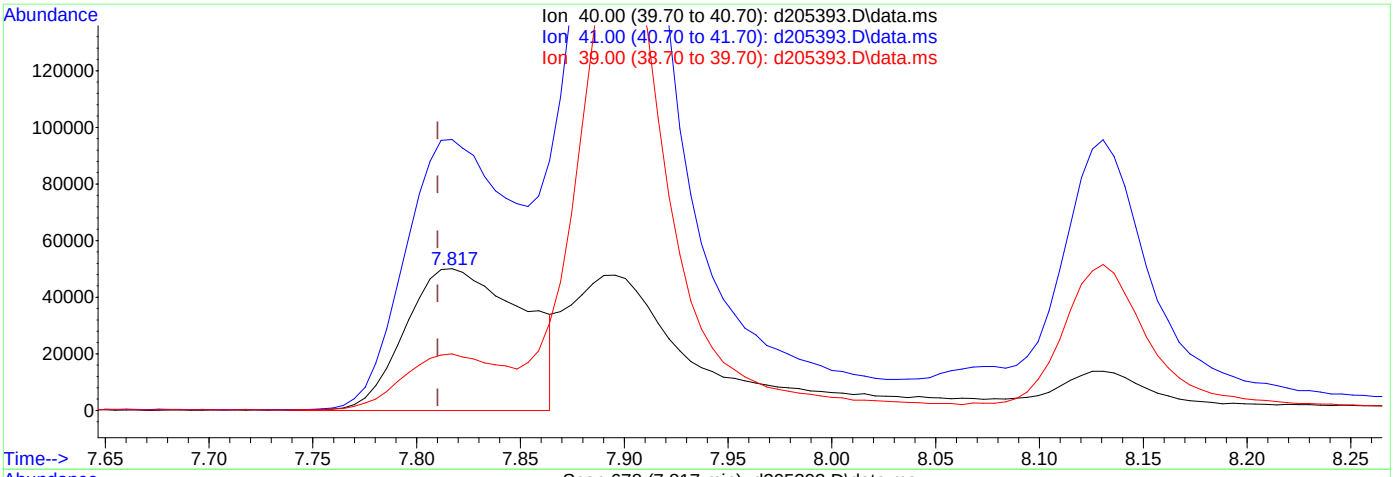
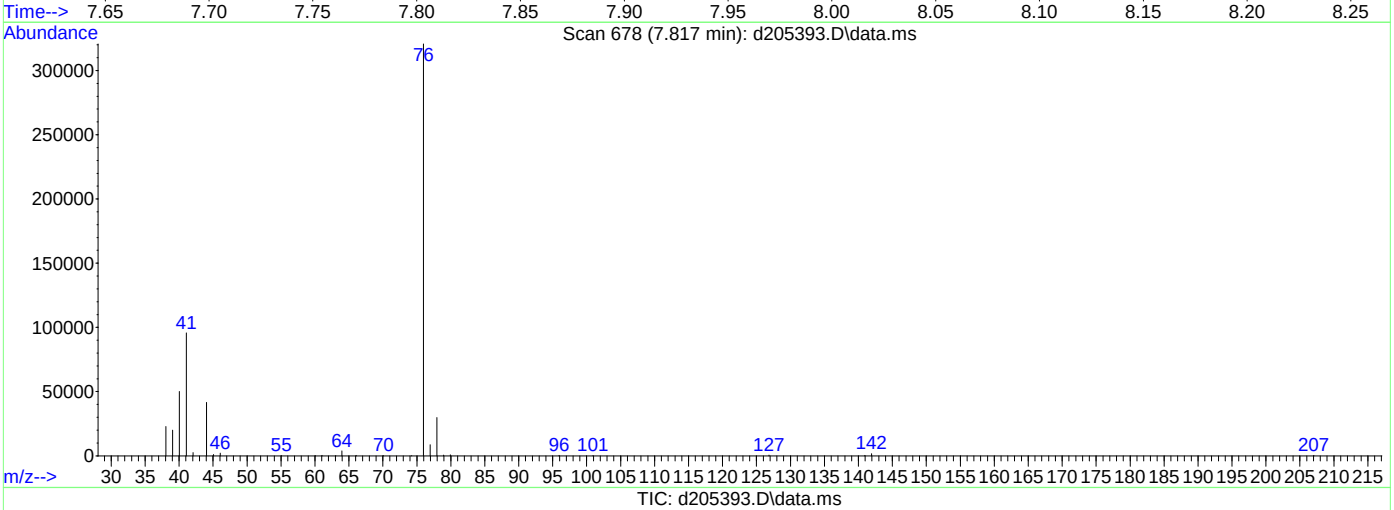




(22) acetonitrile (M)

7.817min (+0.007) 1391.61ug/L m

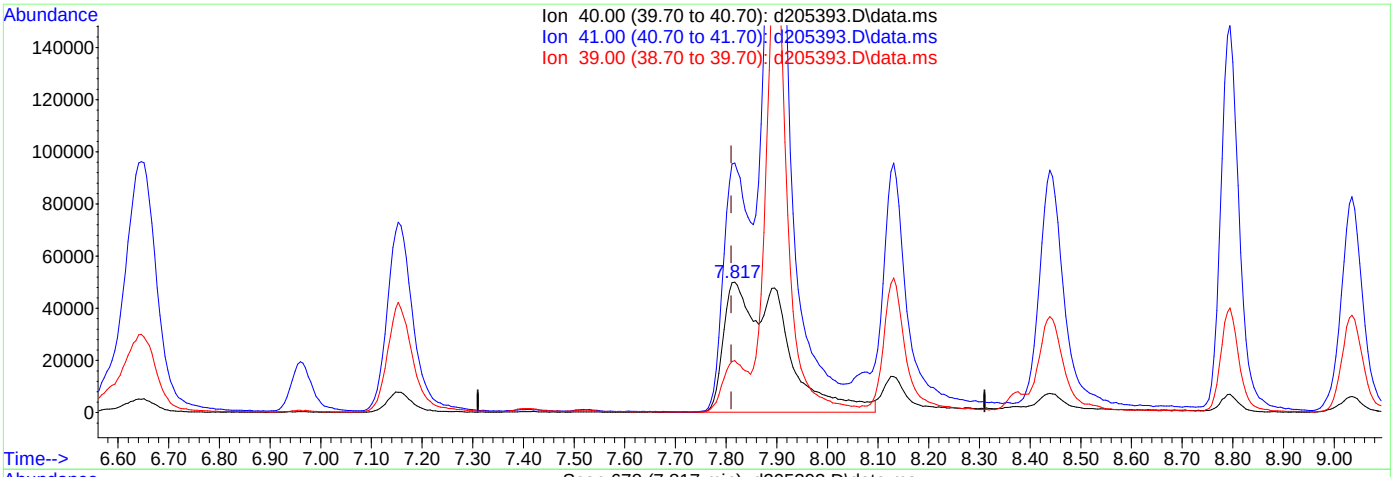
response 198401

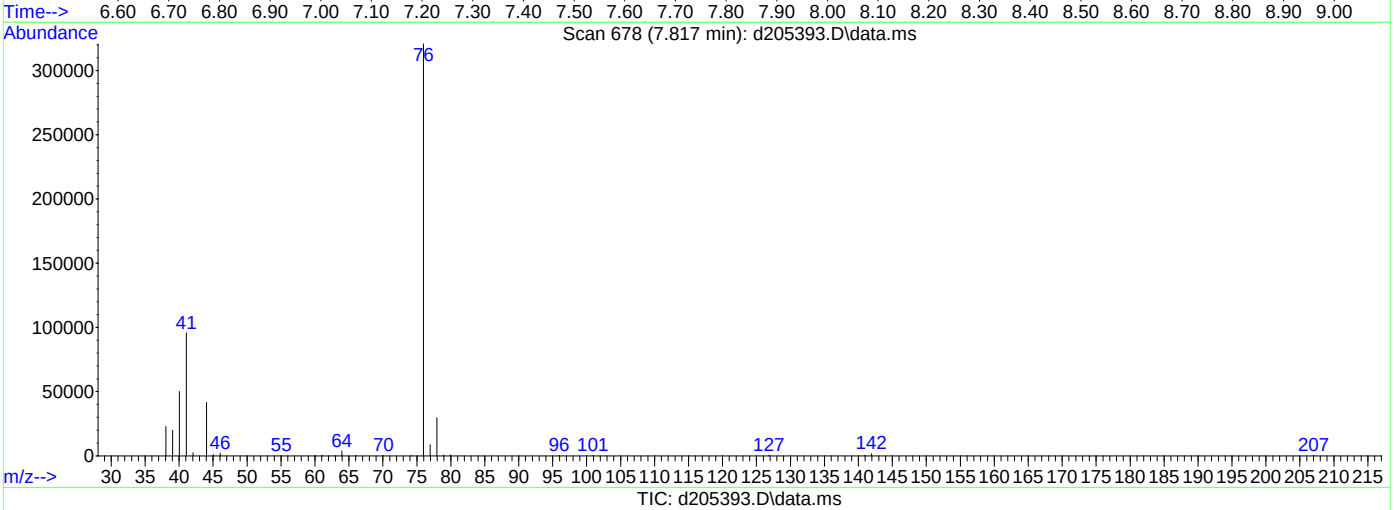
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	191.32
39.00	37.10	39.86
0.00	0.00	0.00

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

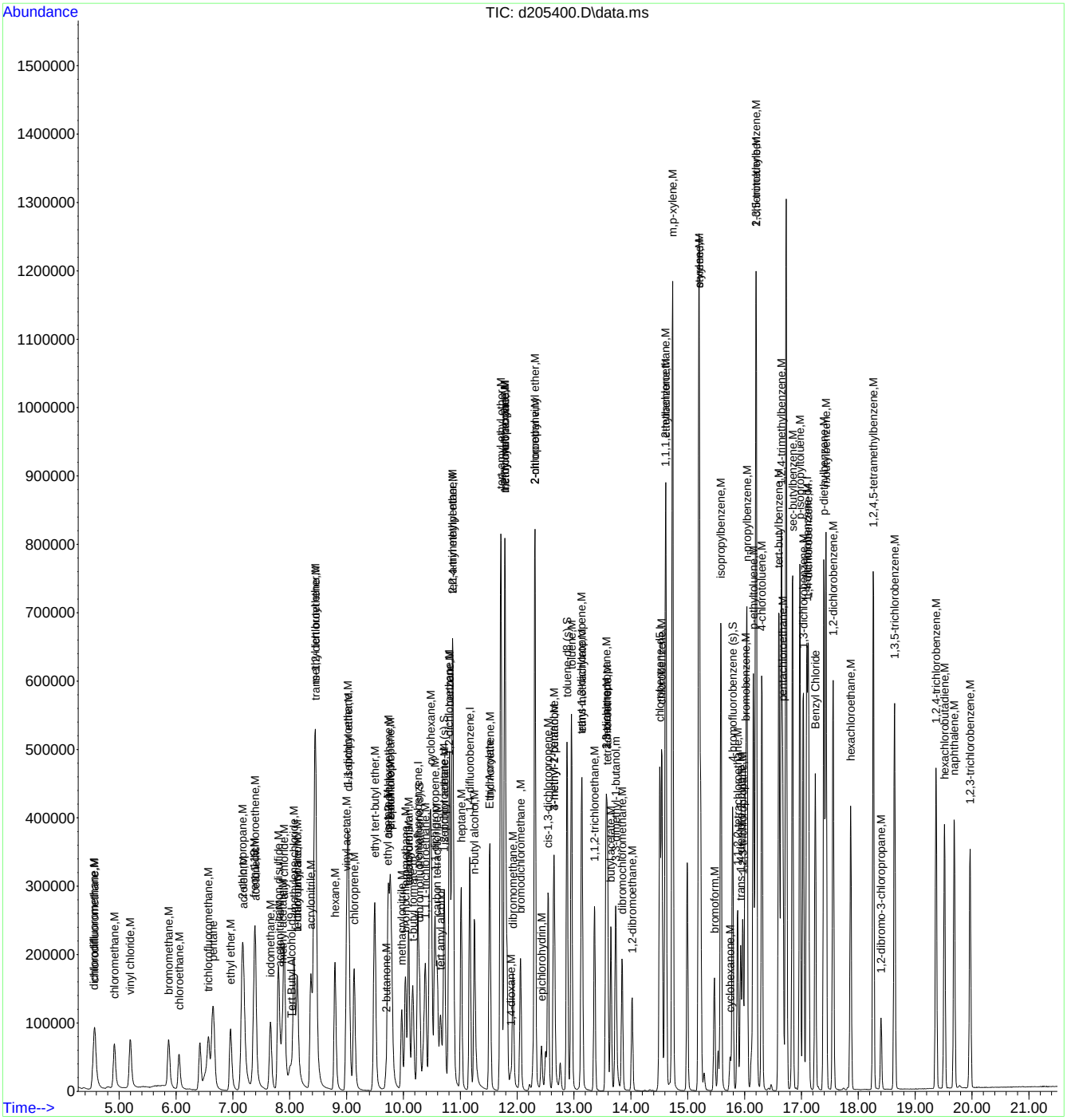
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2,4-trimethylbenzene	16.647	105	467291	47.18 ug/L	99
115) sec-butylbenzene	16.845	105	585006	48.56 ug/L	99
116) 1,3-dichlorobenzene	17.034	146	270110	48.08 ug/L	99
117) p-isopropyltoluene	16.971	119	485260	48.64 ug/L	99
118) 1,4-dichlorobenzene	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

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 JB28370

Manual Integration Approval Summary

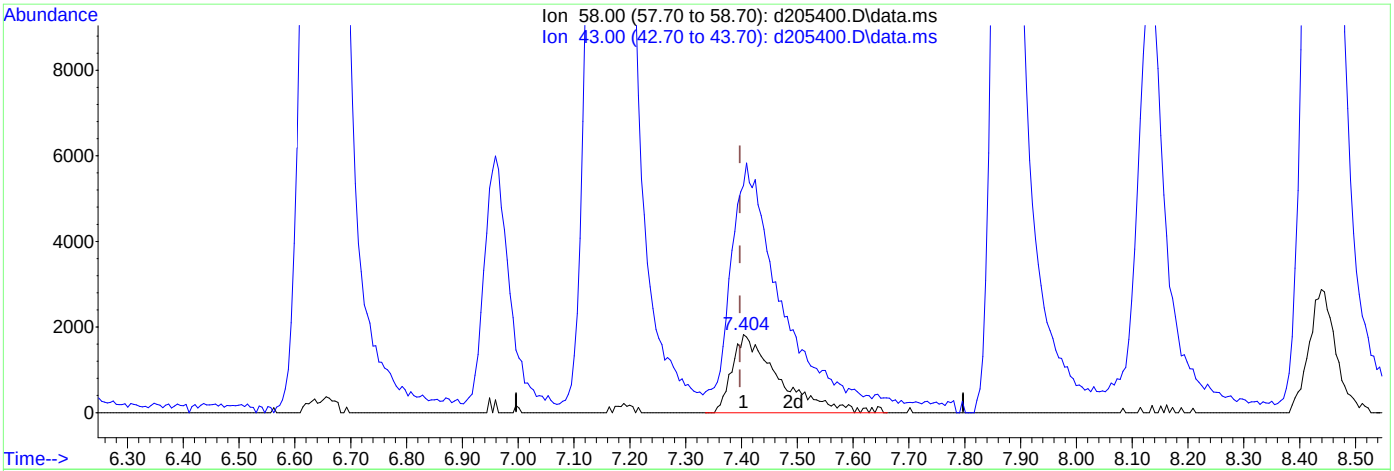
Sample Number:	VD8380-ICV8379	**Method:**	SW846 8260B
Lab FileID:	D205400.D	**Analyst approved:**	02/13/13 12:12 Ying Li
Injection Time:	02/12/13 16:21	**Supervisor approved:**	02/19/13 23:05 Kanya Veerawat

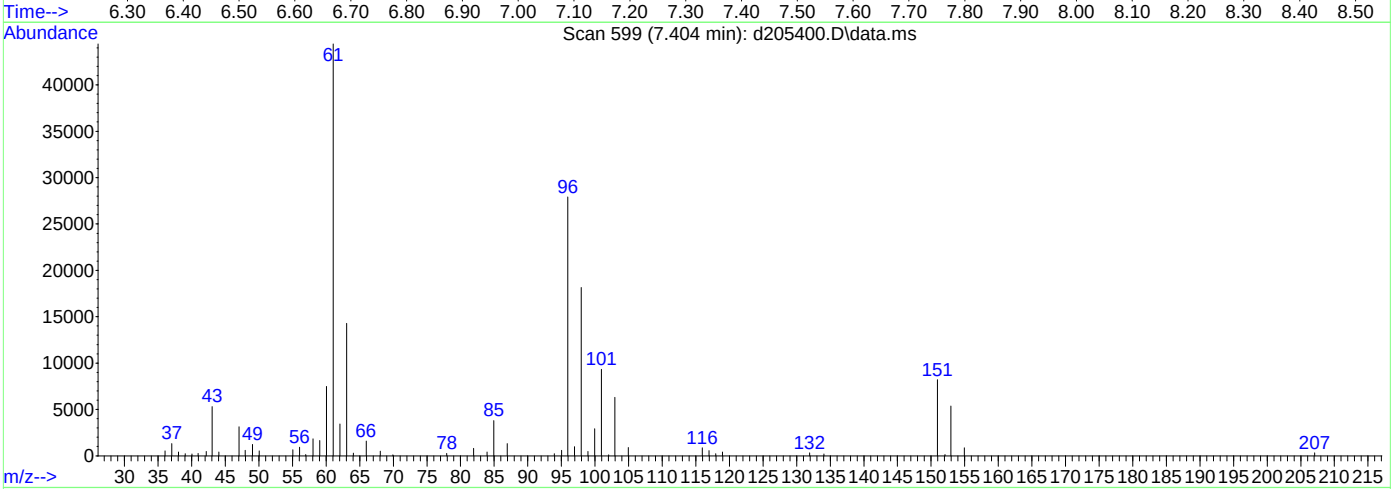
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		7.40	Split peak
Acetonitrile	75-05-8		7.83	Overlapping peak

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
```





(20) acetone (M)

7.404min (+0.007) 47.29ug/L m

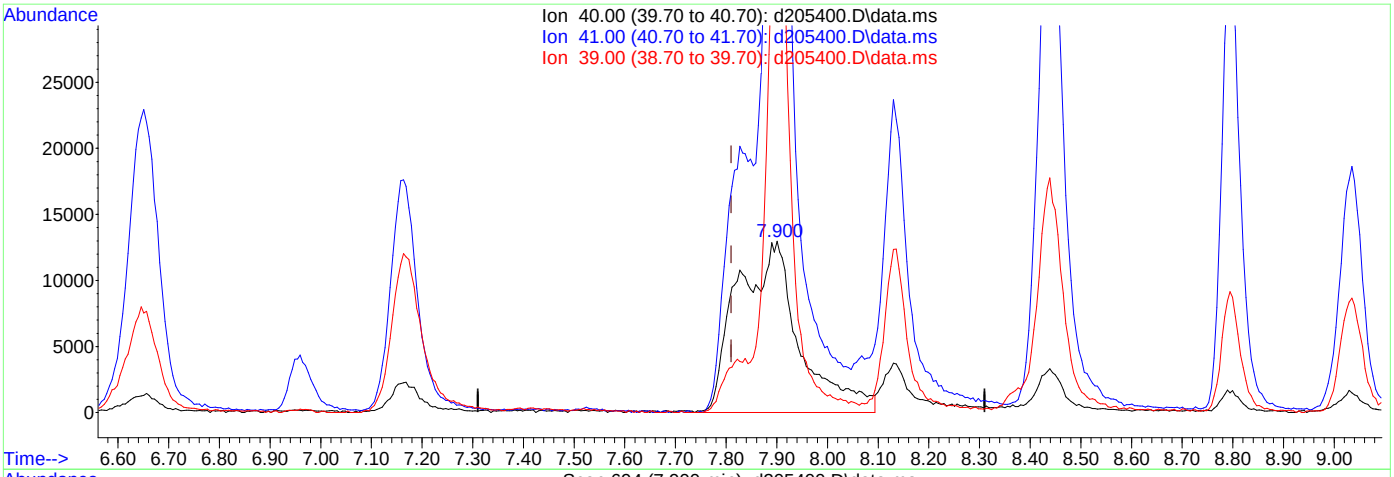
response 10609

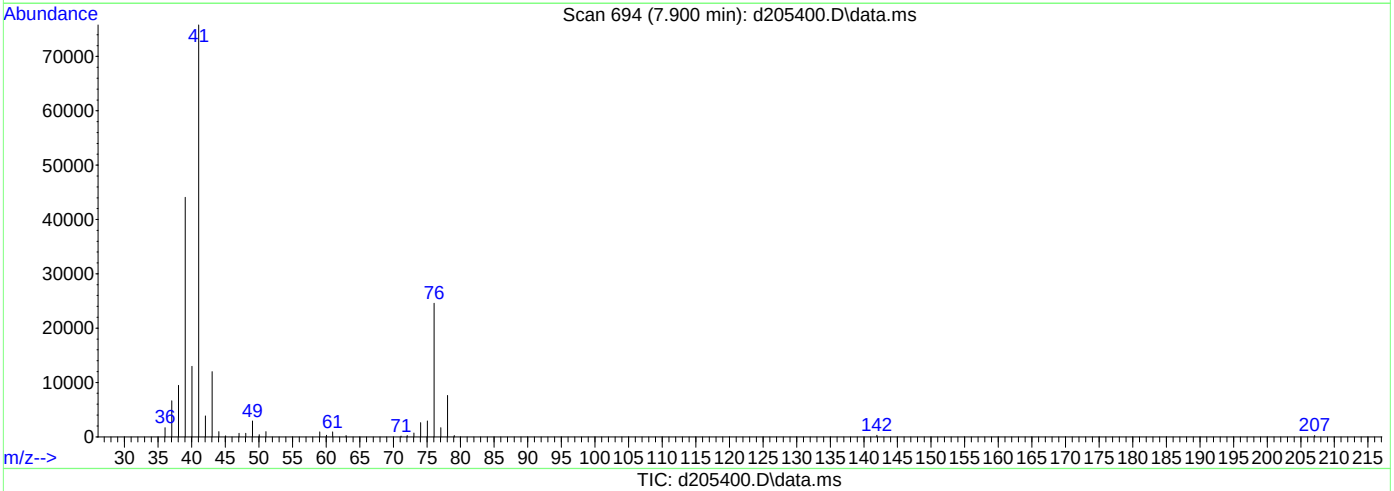
Ion	Exp%	Act%
58.00	100	100
43.00	306.80	291.38
0.00	0.00	0.00
0.00	0.00	0.00

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

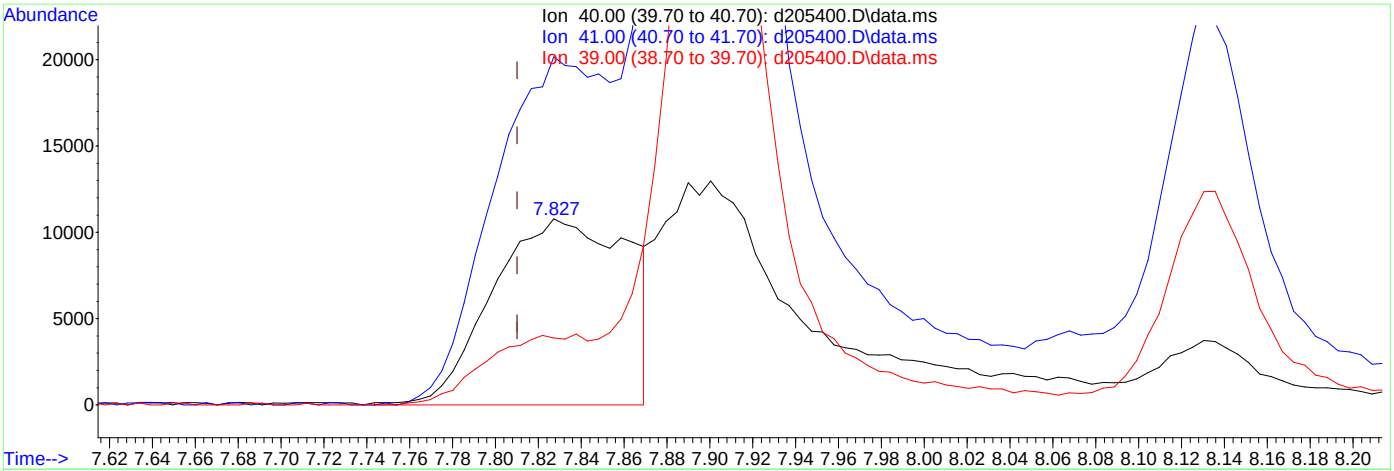
response 110741

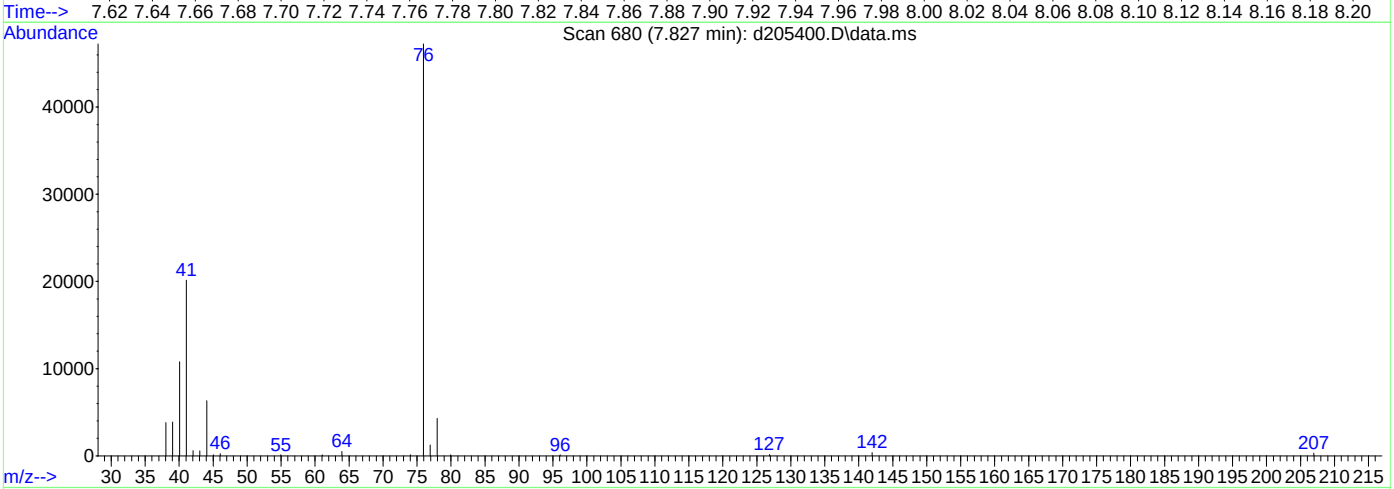
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	584.75#
39.00	37.10	339.82#
0.00	0.00	0.00

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





(22) acetonitrile (M)

7.827min (+0.017) 428.48ug/L m

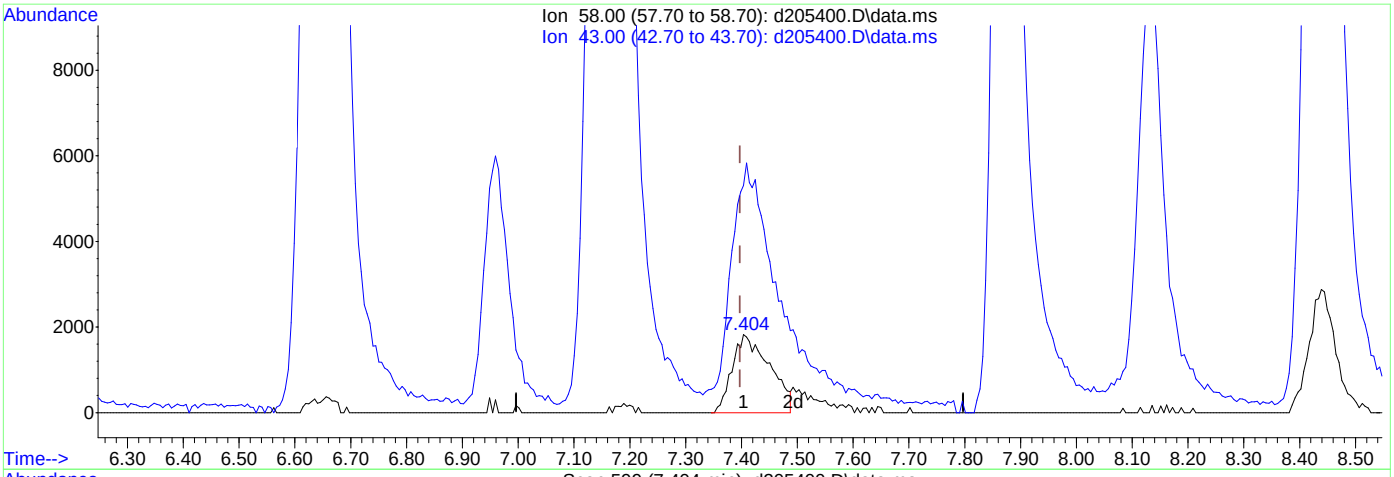
response 47295

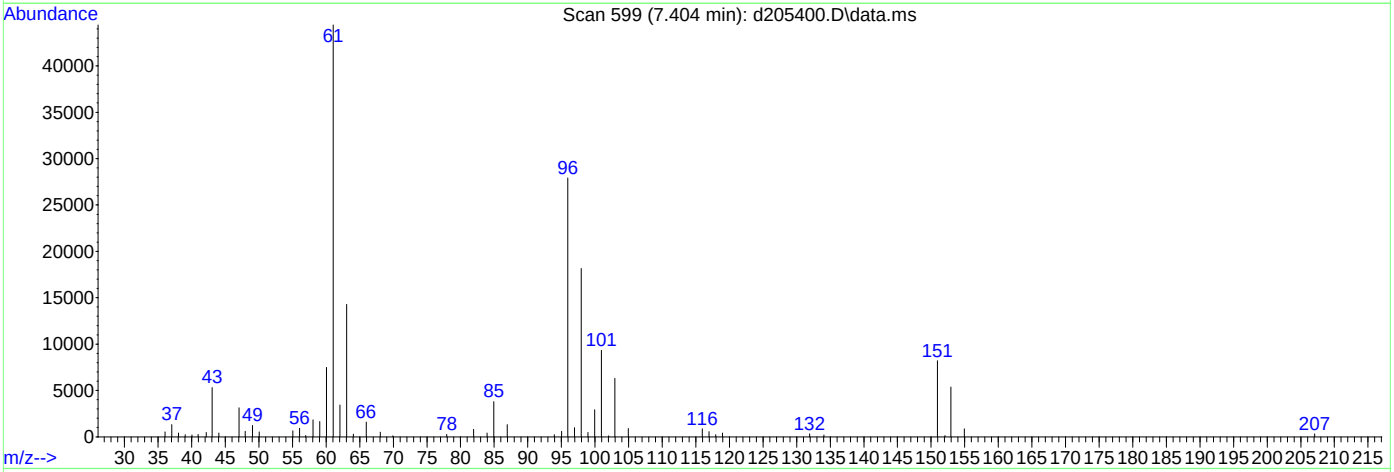
Ion	Exp%	Act%
40.00	100	100
41.00	182.20	186.94
39.00	37.10	35.93
0.00	0.00	0.00

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

Manual Integrations
APPROVED
(compounds with "m" flag)
Kanya Veerawat
02/14/13 17:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205423.D
Acq On : 13 Feb 2013 8:49 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 09:28:11 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	8.014	65	140756	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	212856	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	329287	50.00 ug/L	0.00
85) chlorobenzene-d5	14.508	117	305946	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	186965	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.283	113	100211	48.21 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.42%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	122526	48.82 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 97.64%		
77) toluene-d8 (s)	12.876	98	394958	49.49 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 98.98%		
101) 4-bromofluorobenzene (s)	15.788	95	165175	48.63 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.26%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.888	88	13363	499.25 ug/L	90
3) tertiary butyl alcohol	8.129	59	32476	108.28 ug/L #	81
6) chlorodifluoromethane	4.569	51	48141	20.69 ug/L	98
7) dichlorodifluoromethane	4.543	85	59825	20.98 ug/L	98
8) chloromethane	4.904	50	59742	18.82 ug/L	99
9) vinyl chloride	5.181	62	65375	20.30 ug/L	98
10) bromomethane	5.866	94	37735	20.92 ug/L	97
11) chloroethane	6.054	64	34626	19.13 ug/L	99
13) trichlorofluoromethane	6.566	101	73786	21.59 ug/L	99
15) ethyl ether	6.953	74	27699	18.27 ug/L	98
16) acrolein	7.178	56	111489	183.71 ug/L	97
18) 2-chloropropane	7.157	43	85225	19.10 ug/L	98
19) 1,1-dichloroethene	7.392	96	42757	19.85 ug/L	97
20) acetone	7.392	58	4992	20.96 ug/L	95
21) allyl chloride	7.899	41	99739	19.38 ug/L	99
22) acetonitrile	7.821	40	32387m	276.38 ug/L	
24) iodomethane	7.654	142	77681	20.37 ug/L	100
26) carbon disulfide	7.795	76	150317	20.28 ug/L	99
27) methylene chloride	8.067	84	49060	18.53 ug/L	98
28) 1-chloropropane	8.129	42	83381	18.67 ug/L	96
29) methyl acetate	7.868	43	42452	18.95 ug/L	99
30) methyl tert butyl ether	8.433	73	146284	20.28 ug/L	98
31) trans-1,2-dichloroethene	8.459	96	44700	19.95 ug/L	98
32) di-isopropyl ether	9.029	45	157068	20.66 ug/L	99
33) ethyl tert-butyl ether	9.489	59	159410	21.01 ug/L	97
34) 2-butanone	9.693	72	6124	20.16 ug/L #	91
35) 1,1-dichloroethane	9.008	63	83179	20.77 ug/L	99
36) chloroprene	9.128	53	68371	21.49 ug/L	98
37) acrylonitrile	8.370	53	100708	101.94 ug/L	98
38) vinyl acetate	8.992	86	9338	19.42 ug/L	96
39) ethyl acetate	9.724	45	7163	19.58 ug/L	75
40) 2,2-dichloropropane	9.761	77	67434	22.86 ug/L	100
41) cis-1,2-dichloroethene	9.729	96	49229	20.59 ug/L	98
42) propionitrile	9.771	54	80215	206.07 ug/L	98
43) bromochloromethane	10.032	128	23151	20.12 ug/L	93
44) tetrahydrofuran	10.095	72	6867	18.79 ug/L	94
45) chloroform	10.090	83	76168	20.67 ug/L	99
48) freon 113	7.377	151	31609	20.95 ug/L	99
49) methacrylonitrile	9.970	41	32573	19.51 ug/L	96
50) t-butyl formate	10.158	59	48829	20.40 ug/L	95
51) 1,1,1-trichloroethane	10.383	97	67922	21.04 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205423.D
Acq On : 13 Feb 2013 8:49 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 09:28:11 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)
52) tert-amyl methyl ether	10.864	73	151296	20.15 ug/L	99
54) cyclohexane	10.477	84	72606	21.29 ug/L	98
56) 2,2,4-trimethylpentane	10.864	57	173197	21.13 ug/L	100
57) epichlorohydrin	12.427	57	29402	105.22 ug/L	98
58) n-butyl alcohol	11.245	56	82051	969.01 ug/L	98
59) carbon tetrachloride	10.592	117	59701	21.07 ug/L	99
60) 1,1-dichloropropene	10.550	75	60933	20.80 ug/L	95
61) hexane	8.793	57	53492	19.84 ug/L	99
62) benzene	10.811	78	176592	20.24 ug/L	100
63) heptane	11.015	57	31270	20.68 ug/L	96
64) isopropyl acetate	10.722	43	95060	19.93 ug/L	98
65) 1,2-dichloroethane	10.796	62	61584	21.01 ug/L	98
67) trichloroethene	11.522	95	43872	20.42 ug/L	98
68) 2-nitropropane	12.312	43	126686	19.69 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	165989	101.40 ug/L	99
70) methyl methacrylate	11.784	100	12660	19.64 ug/L	89
72) 1,2-dichloropropane	11.784	63	47744	20.34 ug/L	99
73) methylcyclohexane	11.784	83	77527	21.33 ug/L	97
74) dibromomethane	11.925	93	28421	20.60 ug/L	97
75) bromodichloromethane	12.056	83	58803	20.62 ug/L	98
76) cis-1,3-dichloropropene	12.542	75	75738	20.49 ug/L	98
78) 4-methyl-2-pentanone	12.657	58	20633	20.12 ug/L	98
79) toluene	12.955	92	108782	20.00 ug/L	97
80) 3-methyl-1-butanol	12.641	70	32085	405.05 ug/L	99
81) trans-1,3-dichloropropene	13.127	75	71130	20.38 ug/L	96
82) ethyl methacrylate	13.143	69	65298	20.01 ug/L	99
83) 1,1,2-trichloroethane	13.357	83	34340	19.96 ug/L	99
84) 2-hexanone	13.561	58	18884	20.21 ug/L	97
86) tetrachloroethene	13.587	166	47953	19.15 ug/L	98
87) 1,3-dichloropropane	13.561	76	72762	19.83 ug/L	99
88) butyl acetate	13.650	56	34060	21.07 ug/L	100
89) 3,3-dimethyl-1-butanol	13.729	57	54643	188.46 ug/L	97
90) dibromochloromethane	13.844	129	45195	19.39 ug/L	98
91) 1,2-dibromoethane	14.021	107	43435	20.11 ug/L	99
92) chlorobenzene	14.544	112	121640	19.57 ug/L	99
93) 1,1,1,2-tetrachloroethane	14.602	131	45400	19.74 ug/L	97
94) ethylbenzene	14.617	91	211776	19.60 ug/L	100
95) m,p-xylene	14.732	106	164757	38.27 ug/L	99
96) o-xylene	15.198	106	80825	18.92 ug/L	100
97) styrene	15.198	104	139839	19.44 ug/L	100
98) bromoform	15.469	173	35734	19.80 ug/L	99
100) isopropylbenzene	15.584	105	217581	19.48 ug/L	99
102) bromobenzene	16.013	156	58364	19.22 ug/L	97
103) cyclohexanone	15.741	55	12838	148.29 ug/L	97
104) 1,1,2,2-tetrachloroethane	15.877	83	63778	18.52 ug/L	98
105) trans-1,4-dichloro-2-b...	15.930	53	18809	20.01 ug/L	95
106) 1,2,3-trichloropropane	15.971	110	18277	18.69 ug/L #	78
107) n-propylbenzene	16.039	91	254784	19.14 ug/L	99
109) 2-chlorotoluene	16.196	126	52743	19.01 ug/L	100
110) 4-chlorotoluene	16.306	91	163965	18.87 ug/L	99
111) 1,3,5-trimethylbenzene	16.207	105	190088	18.31 ug/L	99
112) tert-butylbenzene	16.604	119	163668	18.78 ug/L	100
113) pentachloroethane	16.672	167	36640	18.85 ug/L	98
114) 1,2,4-trimethylbenzene	16.646	105	194612	18.44 ug/L	99
115) sec-butylbenzene	16.844	105	246969	19.24 ug/L	100
116) 1,3-dichlorobenzene	17.033	146	111508	18.62 ug/L	98
117) p-isopropyltoluene	16.975	119	202445	19.04 ug/L	98
118) 1,4-dichlorobenzene	17.122	146	114410	18.31 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205423.D
Acq On : 13 Feb 2013 8:49 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 09:28:11 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)
119) Benzyl Chloride	17.242	91	126969	22.22 ug/L	99
121) 1,2-dichlorobenzene	17.555	146	109676	18.03 ug/L	98
122) n-butylbenzene	17.430	92	105559	18.07 ug/L	98
124) 1,2-dibromo-3-chloropr...	18.397	75	12050	18.02 ug/L	95
125) 1,3,5-trichlorobenzene	18.638	180	86740	18.69 ug/L	99
126) 1,2,4-trichlorobenzene	19.370	180	72478	19.27 ug/L	98
127) hexachlorobutadiene	19.516	225	42736	19.51 ug/L	97
128) naphthalene	19.688	128	164526	19.89 ug/L	100
129) 1,2,3-trichlorobenzene	19.966	180	61763	20.40 ug/L	95
130) hexachloroethane	17.864	119	37948	18.85 ug/L	99

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

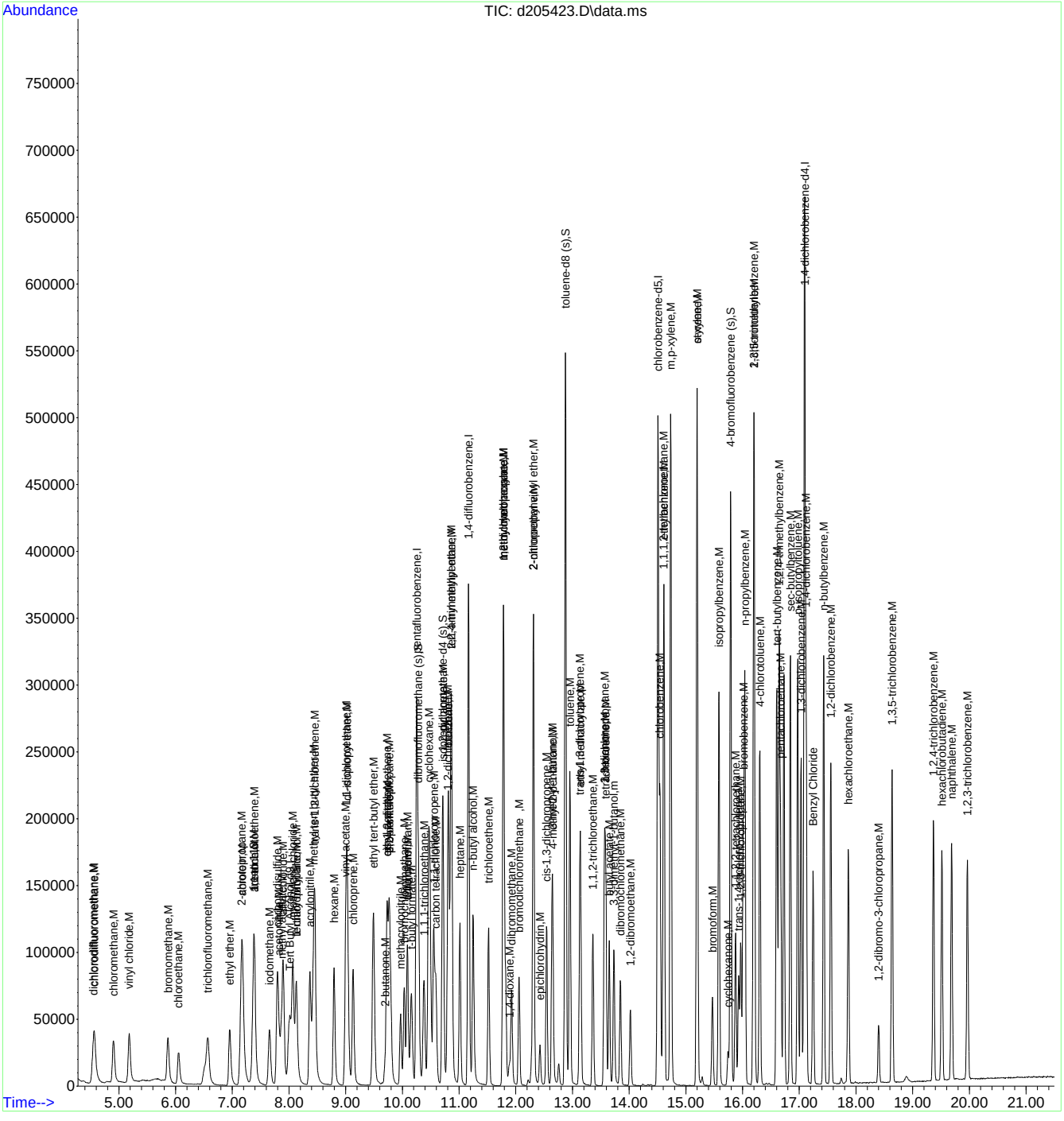
7.7.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205423.D
Acq On : 13 Feb 2013 8:49 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42756,vd8381,5,,100,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 09:28:11 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



Manual Integration Approval Summary

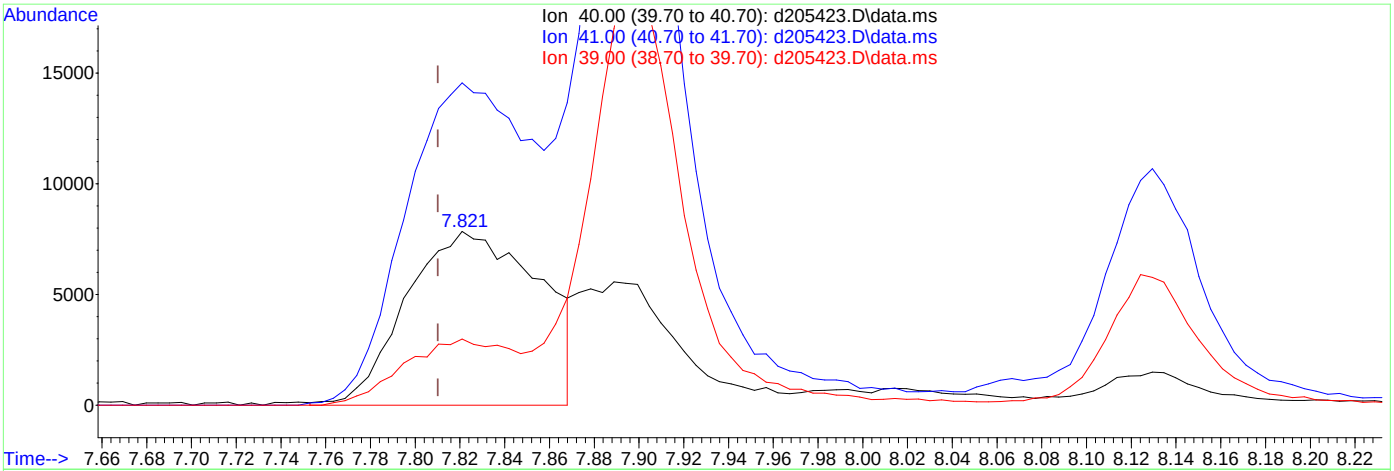
Sample Number:	VD8381-CC8379	**Method:**	SW846 8260B
Lab FileID:	D205423.D	**Analyst approved:**	02/13/13 17:04 Ying Li
Injection Time:	02/13/13 08:49	**Supervisor approved:**	02/14/13 17:35 Kanya Veerawat

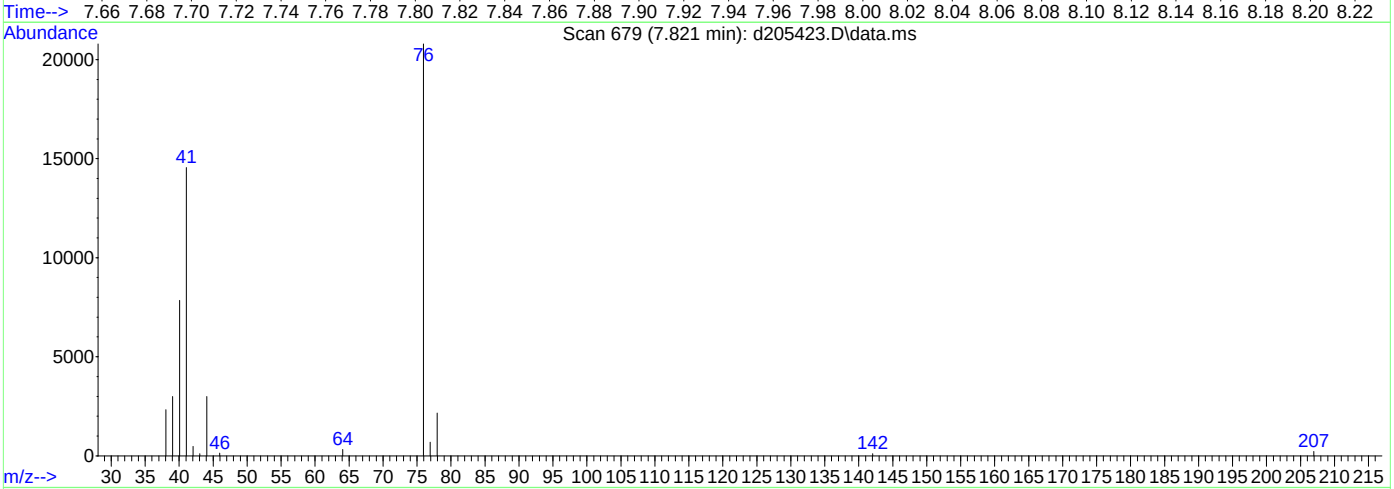
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.82	Overlapping peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\
Data File : d205423.D
Acq On    : 13 Feb 2013   8:49 am
Operator  : EmilyT
Sample    : cc8379-20
Misc      : ms42756,vd8381,5,,100,5,1
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Feb 13 09:13:58 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: d205423.D\data.ms

(22) acetonitrile (M)

7.821min (+0.011) 276.38ug/L m

response 32387

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	185.51
39.00	37.10	38.17
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/15/13 01:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205457.D
Acq On : 14 Feb 2013 9:30 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 11:17:38 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	8.019	65	136809	500.00 ug/L	0.00
4) pentafluorobenzene	10.252	168	214612	50.00 ug/L	0.00
53) 1,4-difluorobenzene	11.167	114	332317	50.00 ug/L	0.00
85) chlorobenzene-d5	14.507	117	290583	50.00 ug/L	0.00
99) 1,4-dichlorobenzene-d4	17.095	152	174558	50.00 ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	10.283	113	99858	47.65 ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.30%		
47) 1,2-dichloroethane-d4 (s)	10.707	65	122390	48.36 ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 96.72%		
77) toluene-d8 (s)	12.876	98	380879	47.29 ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 94.58%		
101) 4-bromofluorobenzene (s)	15.788	95	153794	48.50 ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 97.00%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.888	88	14896	572.58 ug/L	90
3) tertiary butyl alcohol	8.129	59	33423	114.65 ug/L #	76
6) chlorodifluoromethane	4.564	51	50021	21.32 ug/L	99
7) dichlorodifluoromethane	4.548	85	52157	18.14 ug/L	96
8) chloromethane	4.903	50	55171	17.24 ug/L	97
9) vinyl chloride	5.181	62	60666	18.68 ug/L	97
10) bromomethane	5.860	94	35354	19.44 ug/L	91
11) chloroethane	6.048	64	32518	17.82 ug/L	99
13) trichlorofluoromethane	6.566	101	67961	19.72 ug/L	99
15) ethyl ether	6.958	74	27155	17.76 ug/L	98
16) acrolein	7.183	56	113736	185.87 ug/L	97
18) 2-chloropropane	7.157	43	82995	18.45 ug/L	99
19) 1,1-dichloroethene	7.387	96	41056	18.91 ug/L	98
20) acetone	7.397	58	5122	21.33 ug/L	87
21) allyl chloride	7.899	41	99450	19.17 ug/L	98
22) acetonitrile	7.826	40	32287m	273.28 ug/L	
24) iodomethane	7.659	142	74710	19.43 ug/L	100
26) carbon disulfide	7.795	76	146222	19.57 ug/L	99
27) methylene chloride	8.072	84	47656	17.85 ug/L	94
28) 1-chloropropane	8.129	42	80264	17.82 ug/L	93
29) methyl acetate	7.868	43	43909	19.44 ug/L	99
30) methyl tert butyl ether	8.438	73	144561	19.88 ug/L	99
31) trans-1,2-dichloroethene	8.459	96	42787	18.94 ug/L	98
32) di-isopropyl ether	9.028	45	157979	20.61 ug/L	99
33) ethyl tert-butyl ether	9.488	59	161765	21.14 ug/L	99
34) 2-butanone	9.698	72	5807	18.96 ug/L #	88
35) 1,1-dichloroethane	9.013	63	79473	19.68 ug/L	98
36) chloroprene	9.133	53	68274	21.28 ug/L	99
37) acrylonitrile	8.370	53	100097	100.50 ug/L	100
38) vinyl acetate	8.997	86	9393	19.38 ug/L	94
39) ethyl acetate	9.718	45	7247	19.65 ug/L #	37
40) 2,2-dichloropropane	9.766	77	67751	22.77 ug/L	99
41) cis-1,2-dichloroethene	9.729	96	46636	19.35 ug/L	97
42) propionitrile	9.771	54	78550	200.15 ug/L	96
43) bromochloromethane	10.032	128	22958	19.79 ug/L	94
44) tetrahydrofuran	10.095	72	7189	19.51 ug/L	97
45) chloroform	10.084	83	74378	20.02 ug/L	98
48) freon 113	7.366	151	33929	22.30 ug/L	100
49) methacrylonitrile	9.964	41	31156	18.51 ug/L	96
50) t-butyl formate	10.158	59	50230	20.81 ug/L	97
51) 1,1,1-trichloroethane	10.382	97	67326	20.68 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205457.D
Acq On : 14 Feb 2013 9:30 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 11:17:38 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)
52) tert-amyl methyl ether	10.863	73	157510	20.80 ug/L	98
54) cyclohexane	10.482	84	72320	21.01 ug/L	97
56) 2,2,4-trimethylpentane	10.863	57	197374	23.86 ug/L	100
57) epichlorohydrin	12.427	57	31865	112.99 ug/L	99
58) n-butyl alcohol	11.245	56	85420	999.60 ug/L	98
59) carbon tetrachloride	10.592	117	59141	20.68 ug/L	97
60) 1,1-dichloropropene	10.555	75	59359	20.08 ug/L	98
61) hexane	8.798	57	60265	22.15 ug/L	100
62) benzene	10.811	78	173980	19.76 ug/L	99
63) heptane	11.015	57	36797	24.11 ug/L	98
64) isopropyl acetate	10.722	43	96971	20.15 ug/L	98
65) 1,2-dichloroethane	10.801	62	61673	20.85 ug/L	99
67) trichloroethene	11.517	95	43468	20.05 ug/L	96
68) 2-nitropropane	12.312	43	132928	20.48 ug/L	99
69) 2-chloroethyl vinyl ether	12.312	63	174233	105.47 ug/L	99
70) methyl methacrylate	11.784	100	12651	19.45 ug/L	90
72) 1,2-dichloropropane	11.784	63	47195	19.93 ug/L	96
73) methylcyclohexane	11.784	83	87129	23.76 ug/L	97
74) dibromomethane	11.925	93	29174	20.95 ug/L	99
75) bromodichloromethane	12.055	83	58682	20.39 ug/L	99
76) cis-1,3-dichloropropene	12.542	75	77579	20.80 ug/L	99
78) 4-methyl-2-pentanone	12.651	58	21425	20.71 ug/L	95
79) toluene	12.955	92	102369	18.65 ug/L	99
80) 3-methyl-1-butanol	12.641	70	33848	423.41 ug/L	99
81) trans-1,3-dichloropropene	13.127	75	68383	19.42 ug/L	96
82) ethyl methacrylate	13.143	69	61671	18.73 ug/L	99
83) 1,1,2-trichloroethane	13.357	83	32878	18.94 ug/L	98
84) 2-hexanone	13.566	58	17905	18.99 ug/L	96
86) tetrachloroethene	13.587	166	45053	18.94 ug/L	98
87) 1,3-dichloropropane	13.561	76	68992	19.79 ug/L	99
88) butyl acetate	13.650	56	32894	21.43 ug/L	95
89) 3,3-dimethyl-1-butanol	13.728	57	56799	206.25 ug/L	98
90) dibromochloromethane	13.849	129	43966	19.86 ug/L	100
91) 1,2-dibromoethane	14.021	107	42140	20.54 ug/L	99
92) chlorobenzene	14.544	112	115149	19.51 ug/L	98
93) 1,1,1,2-tetrachloroethane	14.607	131	43306	19.83 ug/L	99
94) ethylbenzene	14.617	91	199418	19.43 ug/L	99
95) m,p-xylene	14.732	106	152817	37.37 ug/L	95
96) o-xylene	15.197	106	77394	19.07 ug/L	100
97) styrene	15.197	104	131116	19.19 ug/L	99
98) bromoform	15.469	173	33902	19.78 ug/L	97
100) isopropylbenzene	15.584	105	204717	19.63 ug/L	98
102) bromobenzene	16.013	156	55133	19.45 ug/L	94
103) cyclohexanone	15.741	55	13844	171.27 ug/L	96
104) 1,1,2,2-tetrachloroethane	15.877	83	60413	18.78 ug/L	99
105) trans-1,4-dichloro-2-b...	15.929	53	18526	21.11 ug/L	92
106) 1,2,3-trichloropropane	15.966	110	17178	18.81 ug/L	86
107) n-propylbenzene	16.039	91	242683	19.53 ug/L	99
109) 2-chlorotoluene	16.196	126	50035	19.32 ug/L	99
110) 4-chlorotoluene	16.306	91	155456	19.16 ug/L	100
111) 1,3,5-trimethylbenzene	16.206	105	179587	18.52 ug/L	100
112) tert-butylbenzene	16.604	119	156342	19.21 ug/L	100
113) pentachloroethane	16.672	167	35560	19.60 ug/L	97
114) 1,2,4-trimethylbenzene	16.646	105	182841	18.55 ug/L	100
115) sec-butylbenzene	16.839	105	236791	19.76 ug/L	98
116) 1,3-dichlorobenzene	17.032	146	105557	18.88 ug/L	100
117) p-isopropyltoluene	16.975	119	193530	19.50 ug/L	98
118) 1,4-dichlorobenzene	17.121	146	109232	18.72 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205457.D
Acq On : 14 Feb 2013 9:30 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 11:17:38 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)
119) Benzyl Chloride	17.242	91	139890	26.22 ug/L	100
121) 1,2-dichlorobenzene	17.555	146	105544	18.58 ug/L	98
122) n-butylbenzene	17.430	92	103261	18.94 ug/L	96
124) 1,2-dibromo-3-chloropr...	18.397	75	11883	19.03 ug/L	95
125) 1,3,5-trichlorobenzene	18.637	180	88503	20.43 ug/L	99
126) 1,2,4-trichlorobenzene	19.364	180	74794	21.30 ug/L	99
127) hexachlorobutadiene	19.516	225	42986	21.02 ug/L	98
128) naphthalene	19.688	128	164731	21.33 ug/L	100
129) 1,2,3-trichlorobenzene	19.965	180	63222	22.37 ug/L	98
130) hexachloroethane	17.864	119	35789	19.04 ug/L	99

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

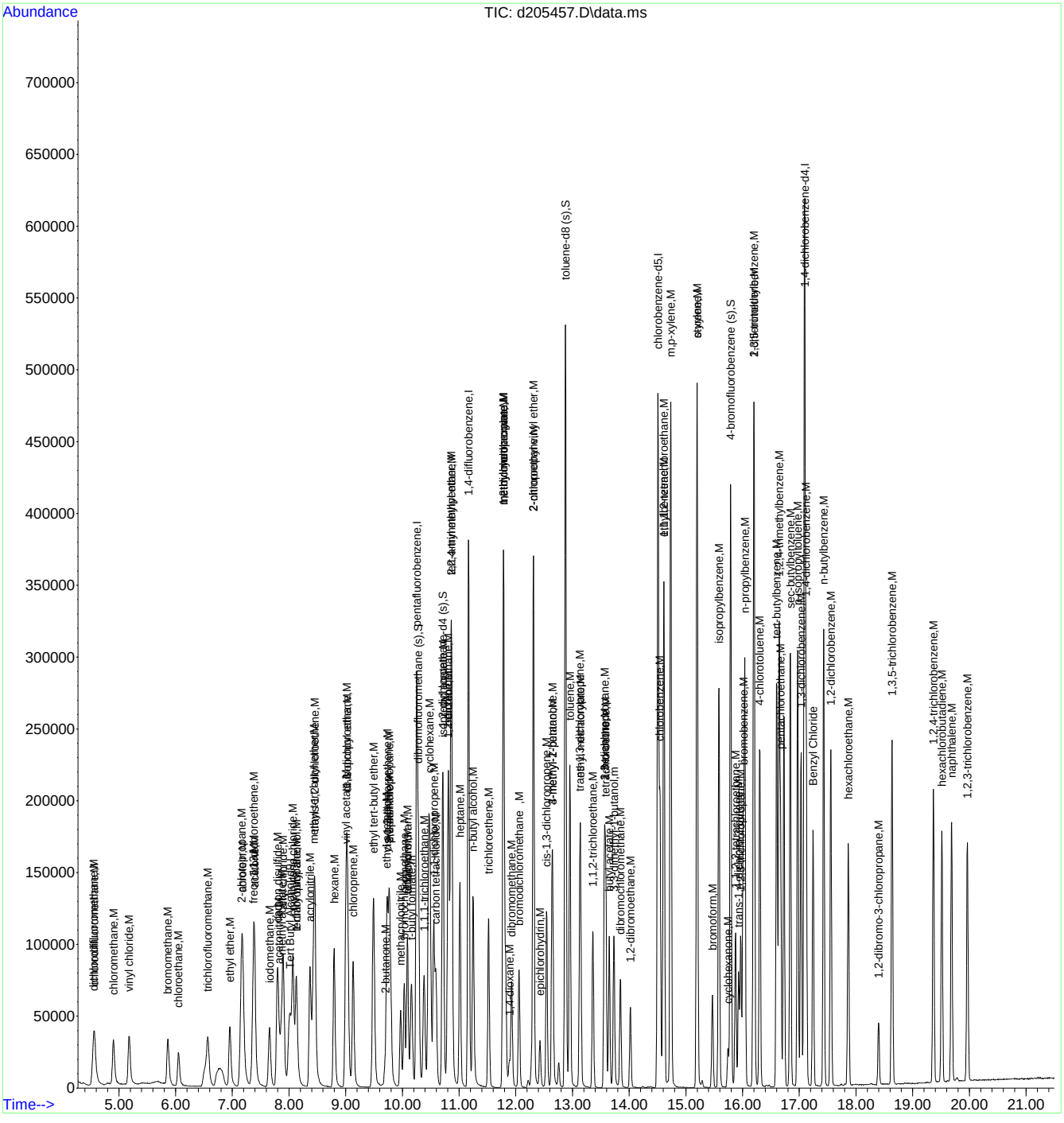
7.7.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : d205457.D
Acq On : 14 Feb 2013 9:30 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 11:17:38 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



Manual Integration Approval Summary

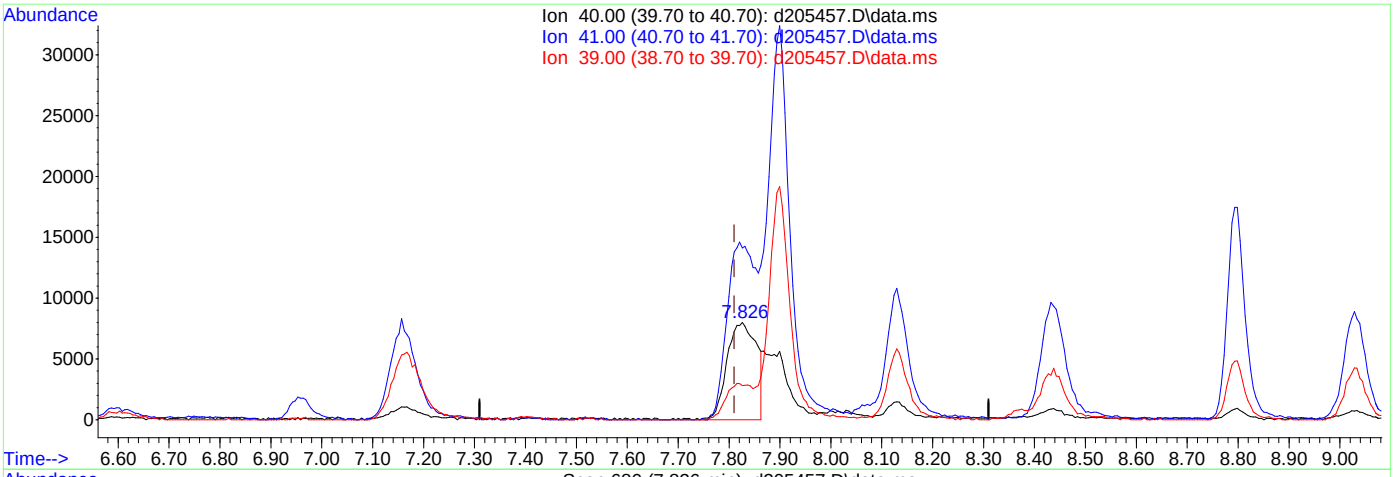
Sample Number:	VD8383-CC8379	**Method:**	SW846 8260B
Lab FileID:	D205457.D	**Analyst approved:**	02/15/13 01:24 Kanya Veerawat
Injection Time:	02/14/13 09:30	**Supervisor approved:**	02/15/13 01:25 Kanya Veerawat

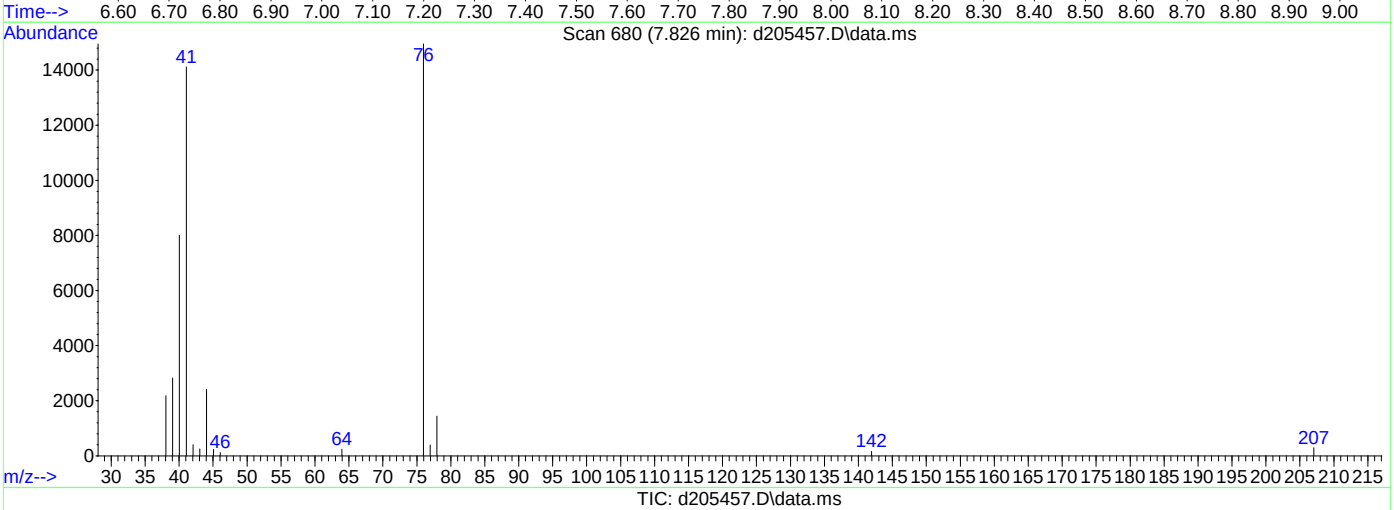
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		7.83	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : d205457.D
Acq On : 14 Feb 2013 9:30 am
Operator : EmilyT
Sample : cc8379-20
Misc : ms42950,vd8383,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 09:55:56 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: d205457.D\data.ms

(22) acetonitrile (M)

7.826min (+0.016) 273.28ug/L m

response 32287

Ion	Exp%	Act%
40.00	100	100
41.00	182.20	176.47
39.00	37.10	35.31
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Kanya Veerawat
01/04/13 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	80191	50.00	ug/L	-0.03
5) pentafluorobenzene	9.445	168	165620	50.00	ug/L	-0.02
46) 1,4-difluorobenzene	10.366	114	252463	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	206074	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.842	152	106621	50.00	ug/L	-0.02

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	0	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
16) 1,1-dichloroethene	6.542	61	1554	0.62	ug/L		93
19) carbon disulfide	6.945	76	2926	0.65	ug/L		91
24) methyl tert butyl ether	7.583	73	2542m	0.92	ug/L		
26) trans-1,2-dichloroethene	7.635	96	1665	1.36	ug/L	#	66
28) di-isopropyl ether	8.179	45	3617	0.69	ug/L	#	68
30) 1,1-dichloroethane	8.200	63	1758	0.66	ug/L		92
32) ethyl tert-butyl ether	8.640	59	3232	0.81	ug/L		92
39) bromochloromethane	9.246	128	323	0.82	ug/L	#	44
41) chloroform	9.304	83	1773	0.82	ug/L		91
44) 1,1,1-trichloroethane	9.555	97	1366	0.64	ug/L		95
45) cyclohexane	9.623	84	1624m	0.87	ug/L		
48) carbon tetrachloride	9.754	117	1237	0.72	ug/L		98
49) 1,1-dichloropropene	9.733	75	1713	0.85	ug/L		80
51) benzene	9.994	78	3658m	0.71	ug/L		
52) 2,2,4-trimethylpentane	9.989	57	4400	0.68	ug/L		93
53) tert-amyl methyl ether	10.020	73	2796	0.92	ug/L		91
54) 1,2-dichloroethane	10.015	62	1192	0.75	ug/L		96
57) trichloroethene	10.711	95	1066	0.84	ug/L		93
60) 1,2-dichloropropane	10.978	63	955	0.72	ug/L		90
61) methylcyclohexane	10.931	83	1706	0.76	ug/L		91
62) dibromomethane	11.140	93	467	0.94	ug/L		96
63) bromodichloromethane	11.265	83	1193	0.82	ug/L		93
67) cis-1,3-dichloropropene	11.726	75	1605	0.93	ug/L		77
70) toluene	12.081	91	4300	0.87	ug/L		98
71) trans-1,3-dichloropropene	12.290	75	1432	1.06	ug/L	#	68
73) 1,1,2-trichloroethane	12.505	83	612	1.15	ug/L		96
74) 2-hexanone	12.688	58	107	0.52	ug/L	#	71
77) tetrachloroethene	12.667	166	1474	1.22	ug/L		91
78) 1,3-dichloropropane	12.688	76	1038	0.78	ug/L		81
79) butyl acetate	12.745	56	453	0.93	ug/L	#	79
80) 3,3-Dimethyl-1-Butanol	12.850	57	776	11.81	ug/L	#	89
81) dibromochloromethane	12.944	129	668	0.84	ug/L		92
82) 1,2-dibromoethane	13.096	107	580	0.92	ug/L	#	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

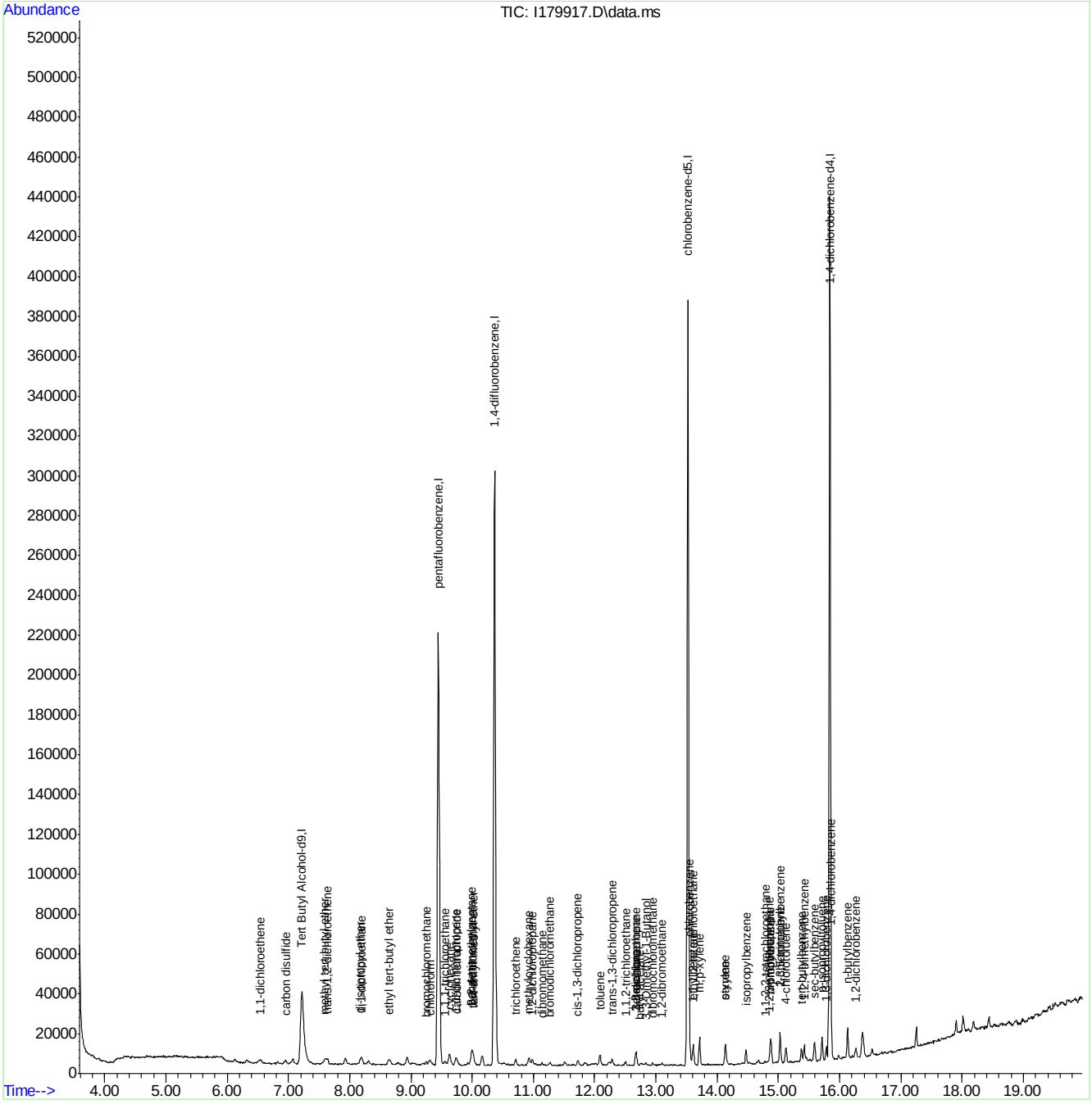
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
83) chlorobenzene	13.551	112	2462	0.81 ug/L	83
84) 1,1,1,2-tetrachloroethane	13.619	131	732	0.70 ug/L	87
85) ethylbenzene	13.608	91	4811m	0.76 ug/L	
86) m,p-xylene	13.713	106	3865	1.78 ug/L	92
87) o-xylene	14.126	106	1634	0.81 ug/L	83
88) styrene	14.142	104	2670	0.88 ug/L	94
92) isopropylbenzene	14.471	105	4897	0.74 ug/L	97
94) 1,1,2,2-tetrachloroethane	14.780	83	788	0.80 ug/L	97
96) 1,2,3-trichloropropane	14.848	110	153	0.79 ug/L	67
97) n-propylbenzene	14.879	91	7228	0.89 ug/L	91
98) bromobenzene	14.874	156	1031	0.85 ug/L	93
99) 2-chlorotoluene	15.026	126	1201	0.86 ug/L	90
100) 4-chlorotoluene	15.125	91	4140m	0.90 ug/L	
101) 1,3,5-trimethylbenzene	15.026	105	4720	0.87 ug/L	92
102) tert-butylbenzene	15.376	119	3245	0.73 ug/L	91
104) 1,2,4-trimethylbenzene	15.423	105	4785	0.90 ug/L	94
105) sec-butylbenzene	15.591	105	6561	0.91 ug/L	95
106) p-isopropyltoluene	15.711	119	6569	1.16 ug/l	98
108) 1,3-dichlorobenzene	15.784	146	2499	1.02 ug/L	93
109) 1,4-dichlorobenzene	15.868	146	2693	1.13 ug/L	99
110) 1,2-dichlorobenzene	16.265	146	2034	0.93 ug/L	99
111) n-butylbenzene	16.135	92	4745	1.49 ug/L	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



MI7266.M Mon Dec 31 09:09:15 2012 RPT1 Page: 3

Manual Integration Approval Summary

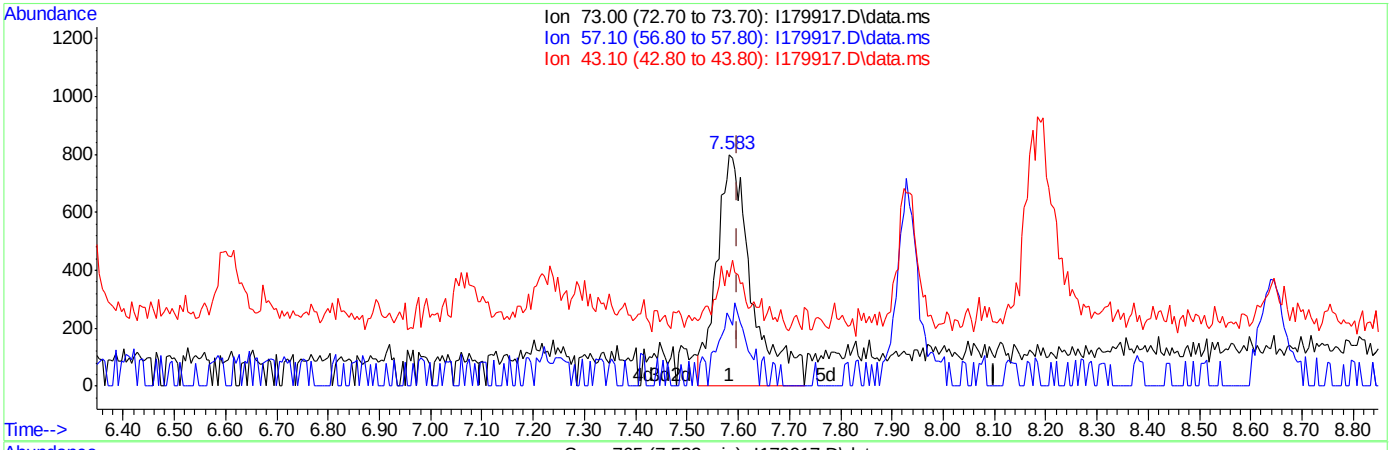
Sample Number:	VI7266-IC7266	**Method:**	SW846 8260B
Lab FileID:	I179917.D	**Analyst approved:**	12/31/12 12:35 Scott McGonigal
Injection Time:	12/28/12 10:21	**Supervisor approved:**	01/04/13 13:45 Kanya Veerawat

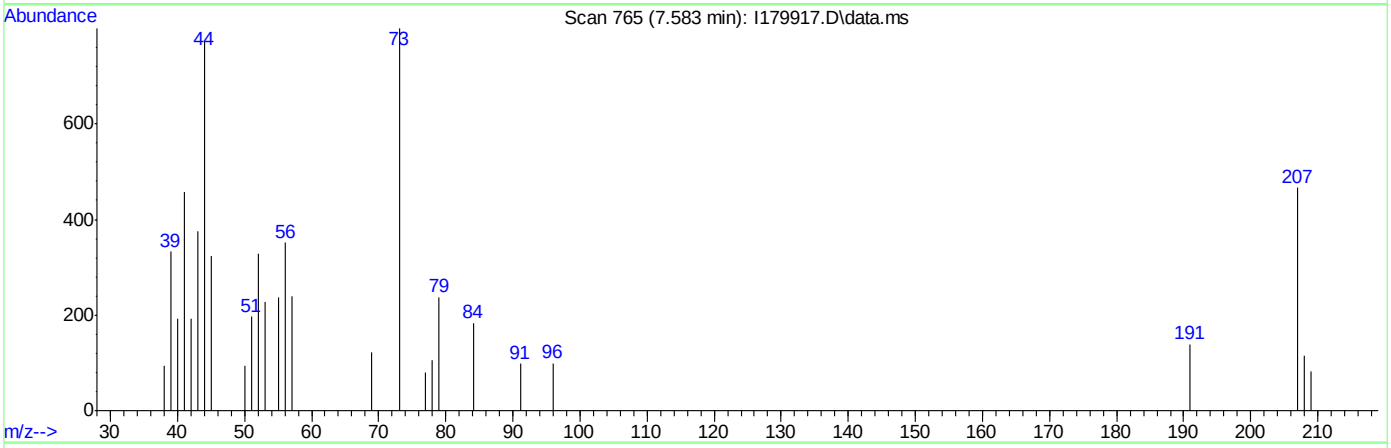
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Tert Butyl Ether	1634-04-4		7.58	Poorly defined baseline
Cyclohexane	110-82-7		9.62	Poorly defined baseline
Benzene	71-43-2		9.99	Poorly defined baseline
Ethylbenzene	100-41-4		13.61	Poorly defined baseline
p-Chlorotoluene	106-43-4		15.13	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 11:03:30 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(24) methyl tert butyl ether

7.583min (-0.016) 1.39ug/L

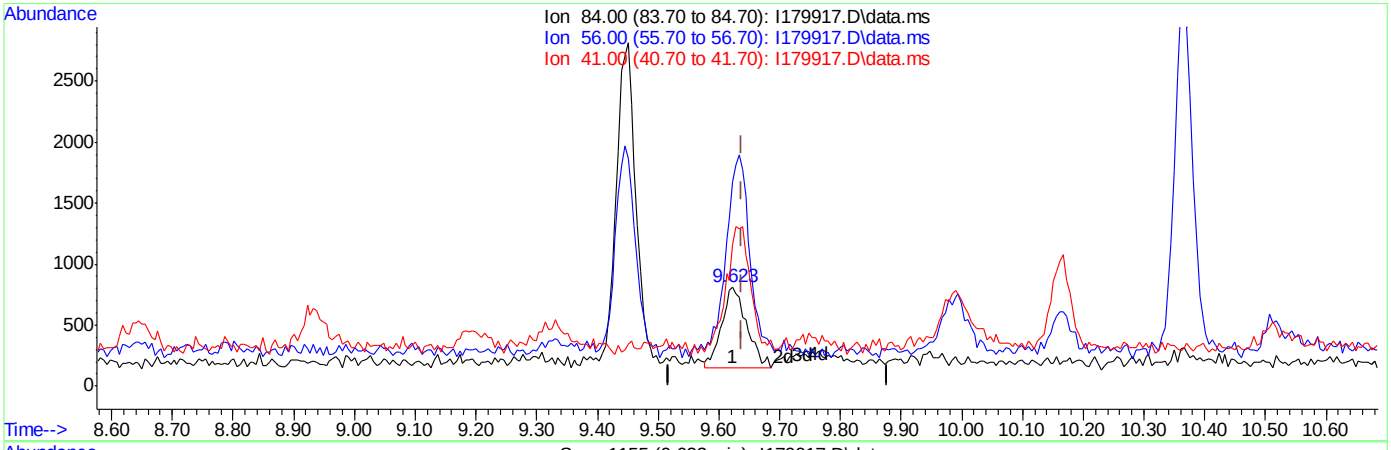
response 3844

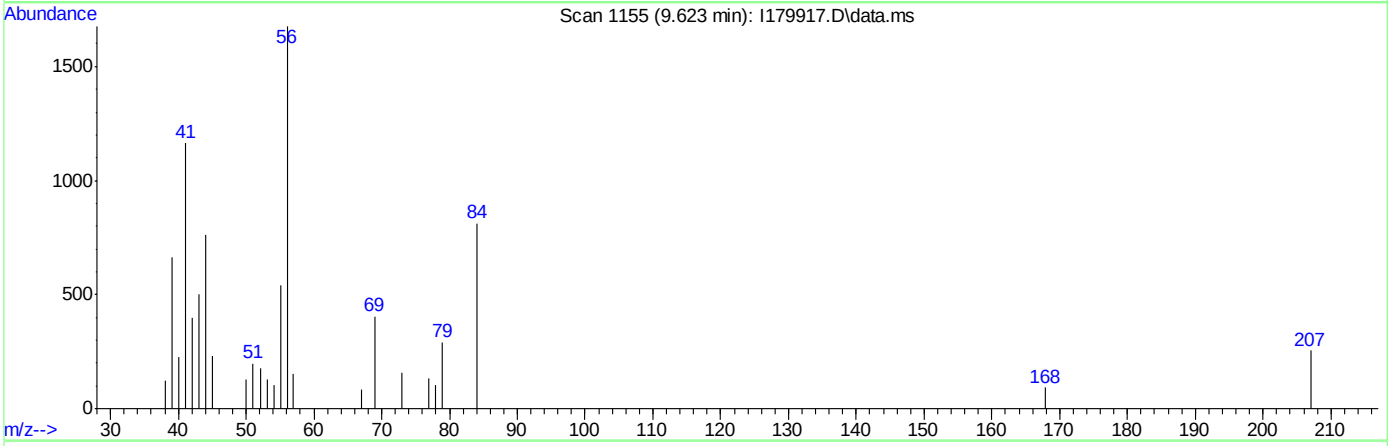
Ion	Exp%	Act%
73.00	100	100
57.10	23.90	29.88
43.10	35.00	47.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 11:03:30 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(45) cyclohexane

9.623min (-0.016) 1.03ug/L

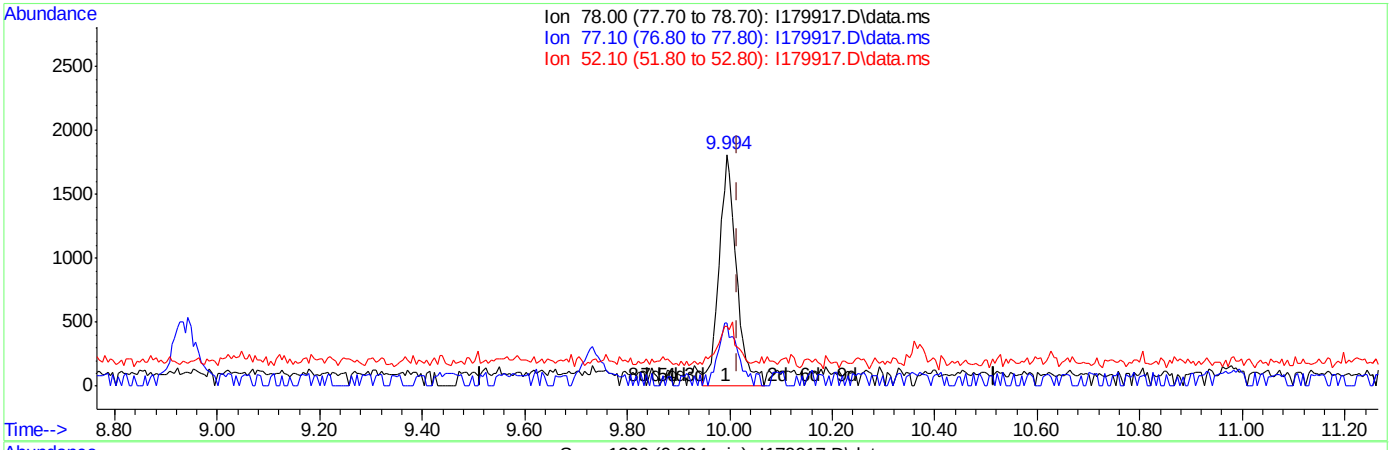
response 1919

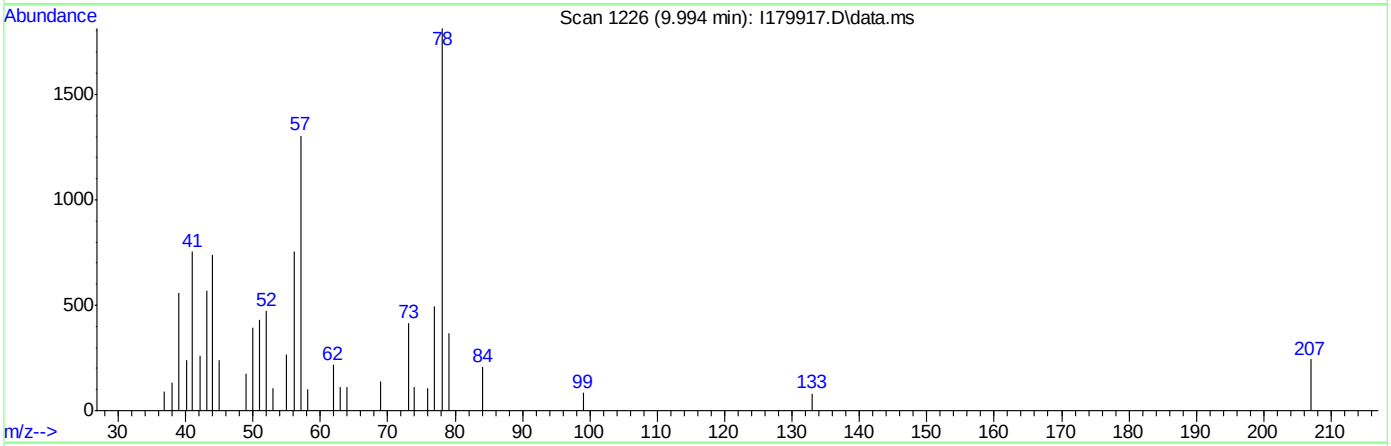
Ion	Exp%	Act%
84.00	100	100
56.00	246.20	207.38#
41.00	193.70	133.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 11:03:30 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(51) benzene

9.994min (-0.021) 0.83ug/L

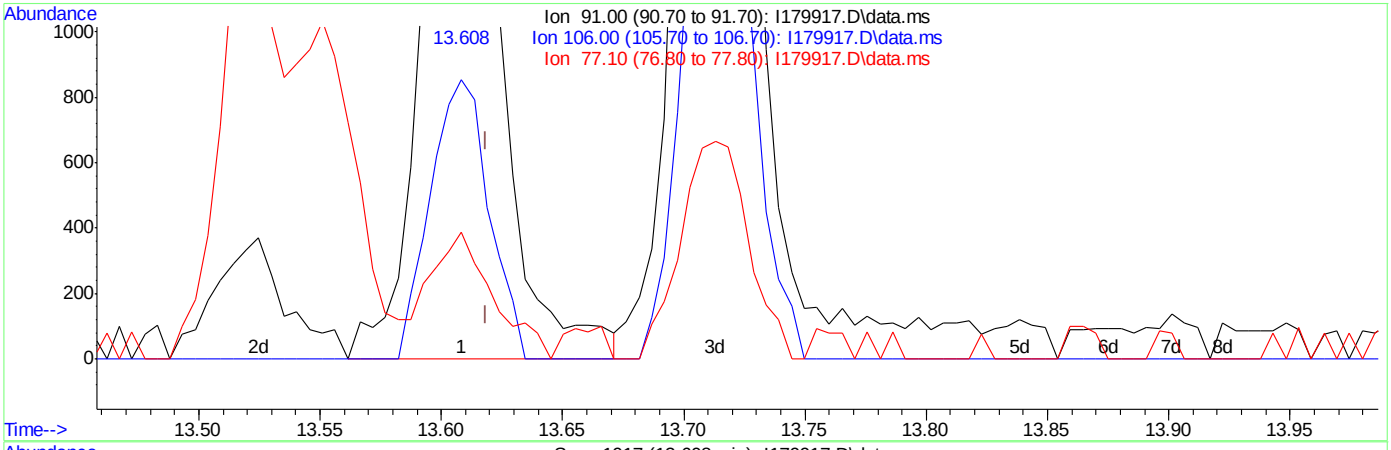
response 4273

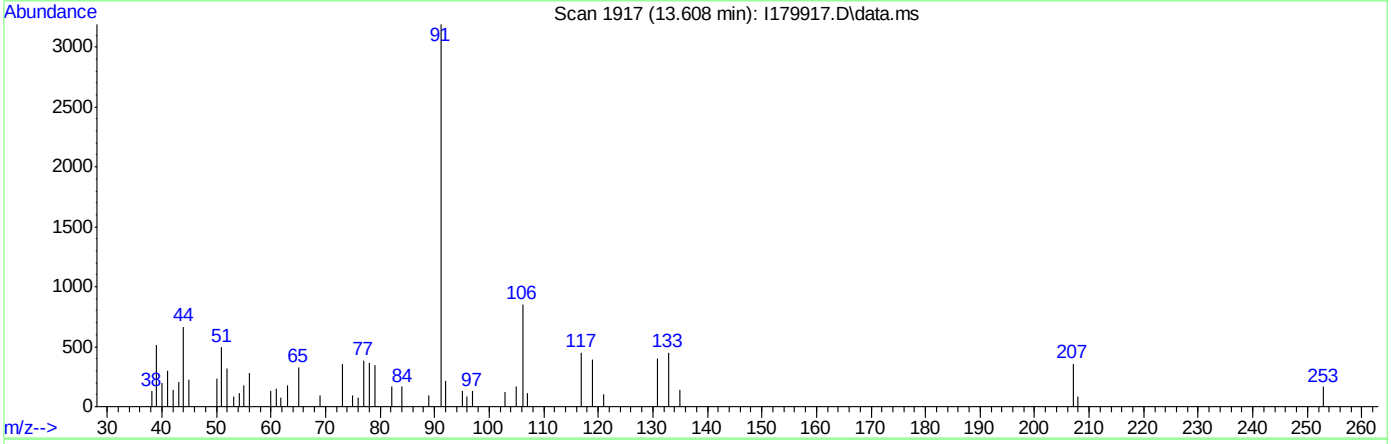
Ion	Exp%	Act%
78.00	100	100
77.10	26.00	27.14
52.10	20.80	16.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 11:03:30 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(85) ethylbenzene

13.608min (-0.010) 0.86ug/L

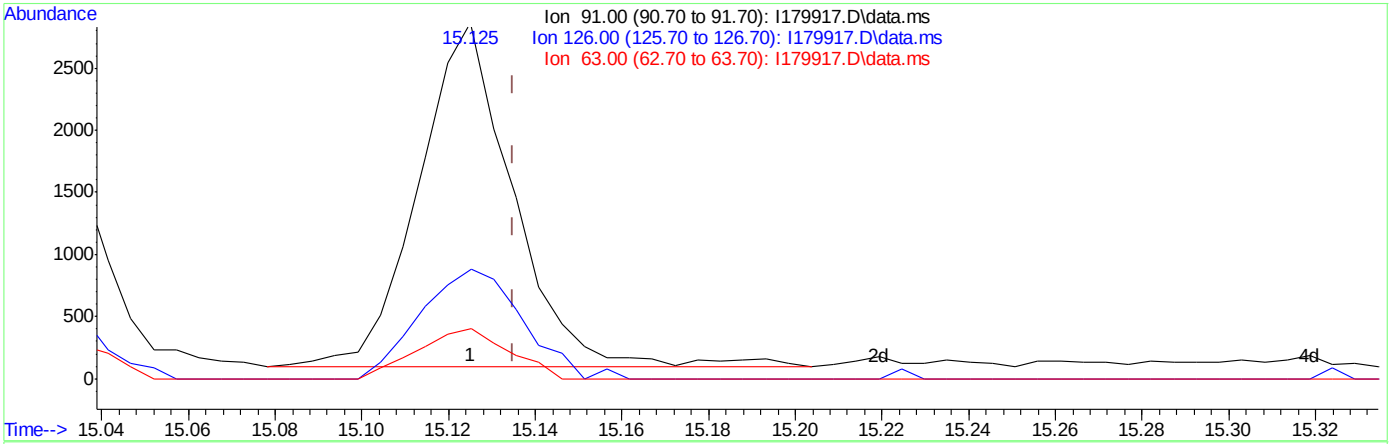
response 5425

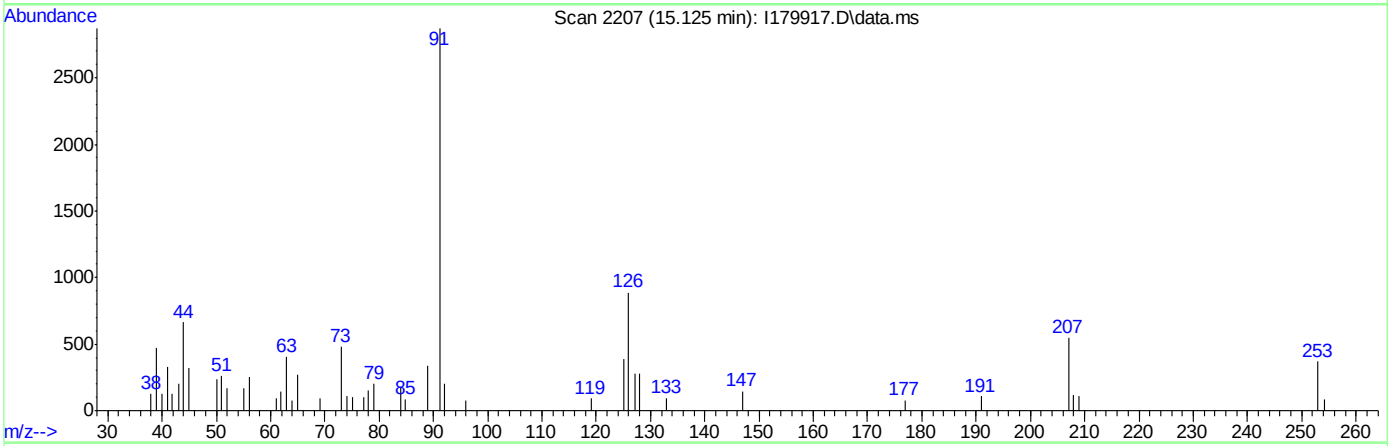
Ion	Exp%	Act%
91.00	100	100
106.00	26.80	26.75
77.10	9.90	12.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 11:03:30 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(100) 4-chlorotoluene

15.125min (-0.010) 0.91ug/L

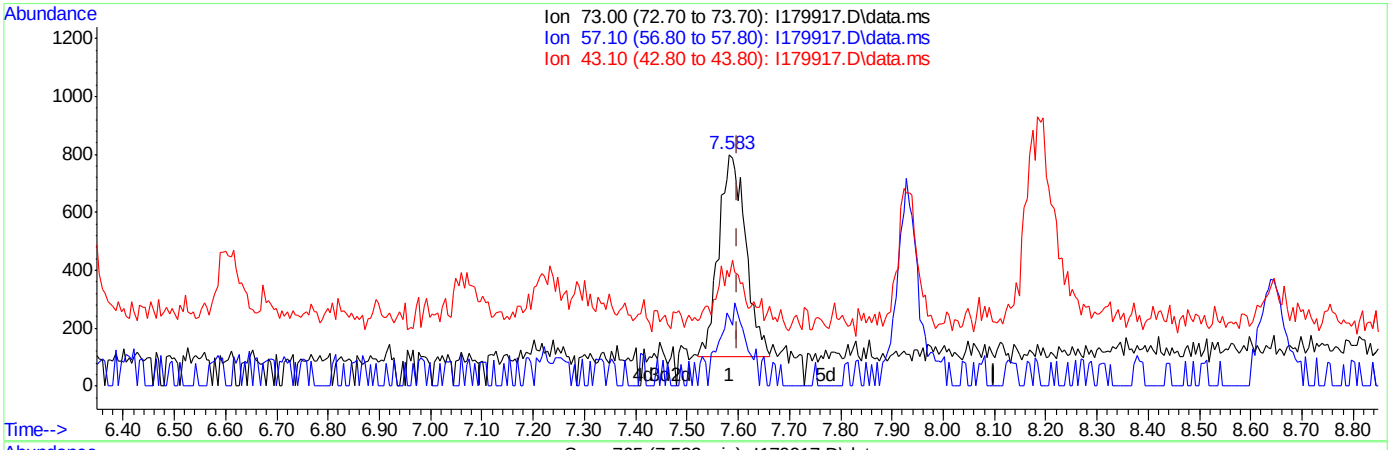
response 4206

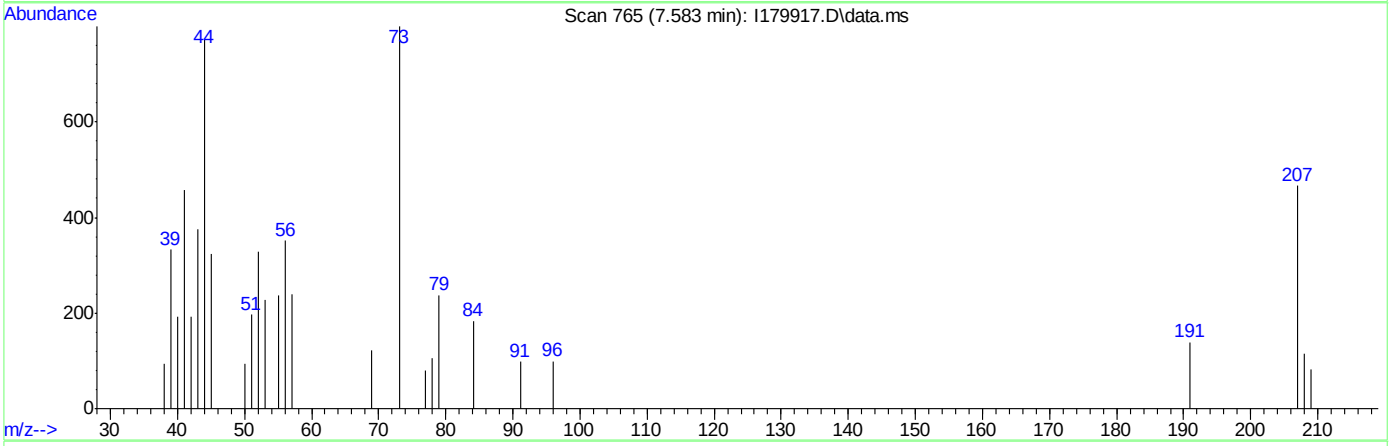
Ion	Exp%	Act%
91.00	100	100
126.00	28.90	31.90
63.00	16.80	14.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(24) methyl tert butyl ether

7.583min (-0.016) 0.92ug/L m

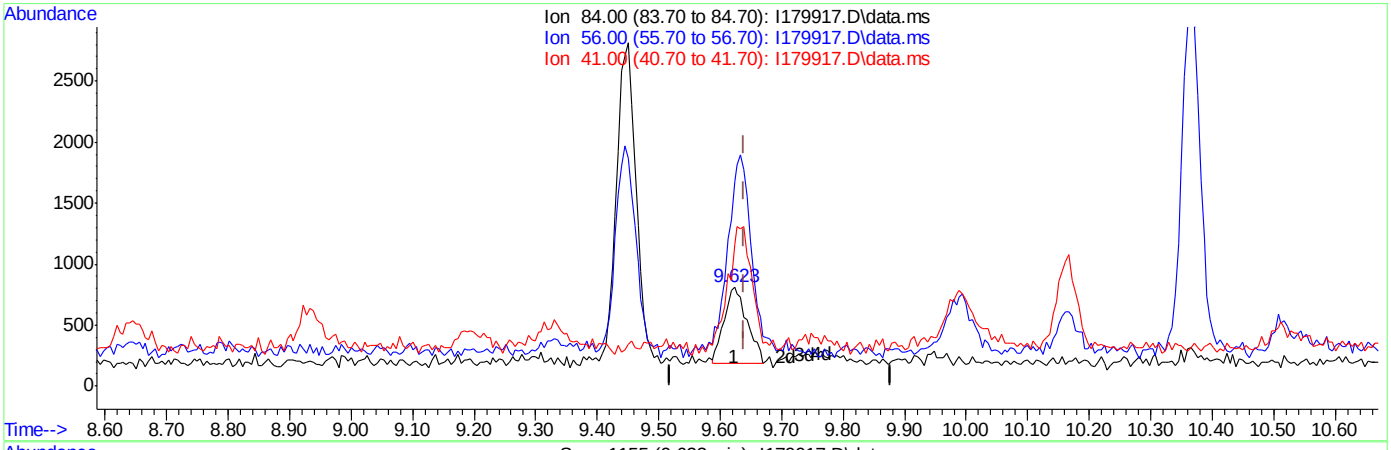
response 2542

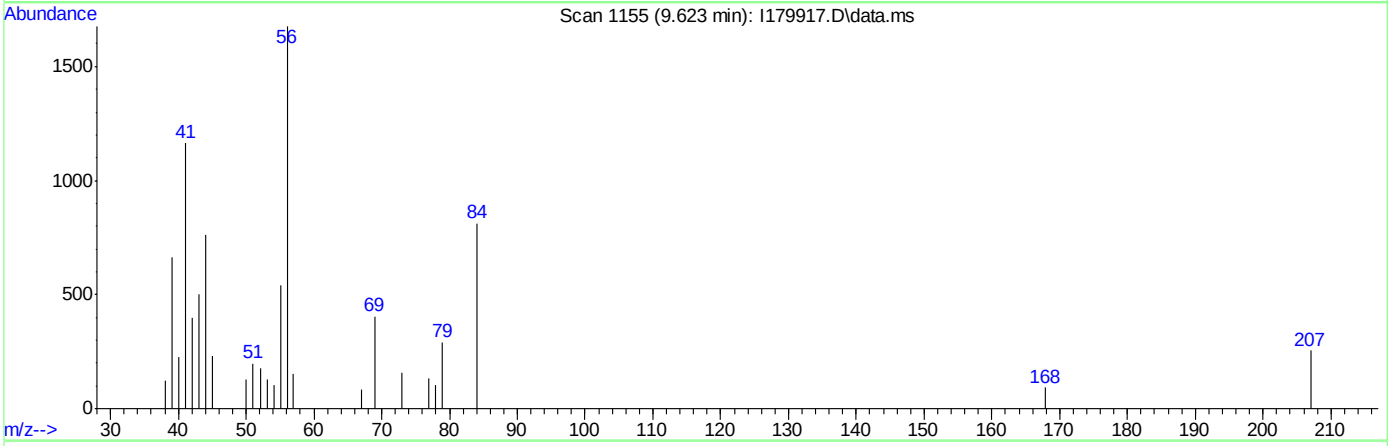
Ion	Exp%	Act%
73.00	100	100
57.10	23.90	29.88
43.10	35.00	47.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(45) cyclohexane

9.623min (-0.016) 0.87ug/L m

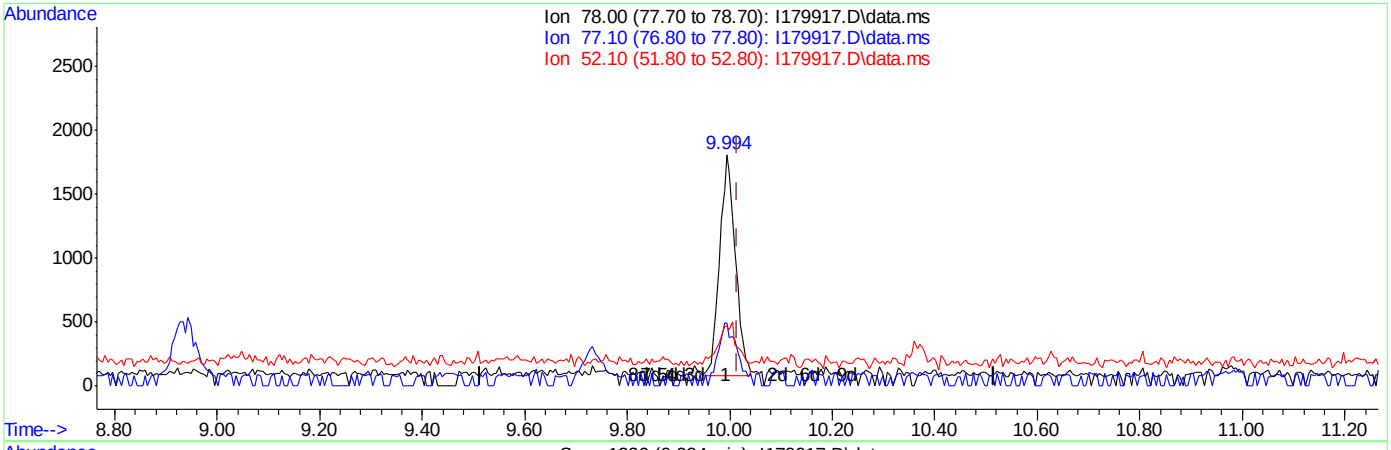
response 1624

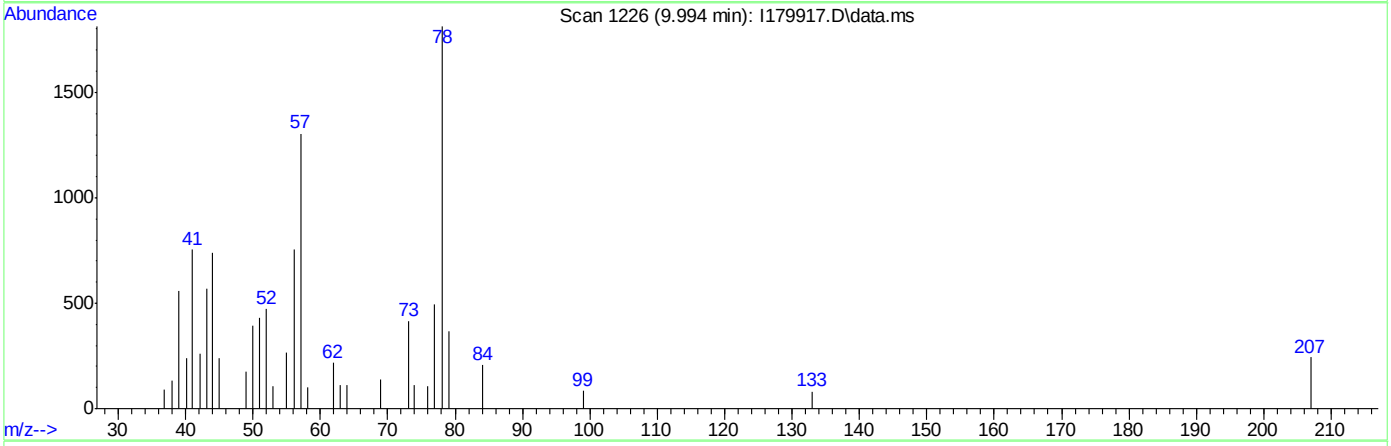
Ion	Exp%	Act%
84.00	100	100
56.00	246.20	206.40#
41.00	193.70	143.23#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(51) benzene

9.994min (-0.021) 0.71ug/L m

response 3658

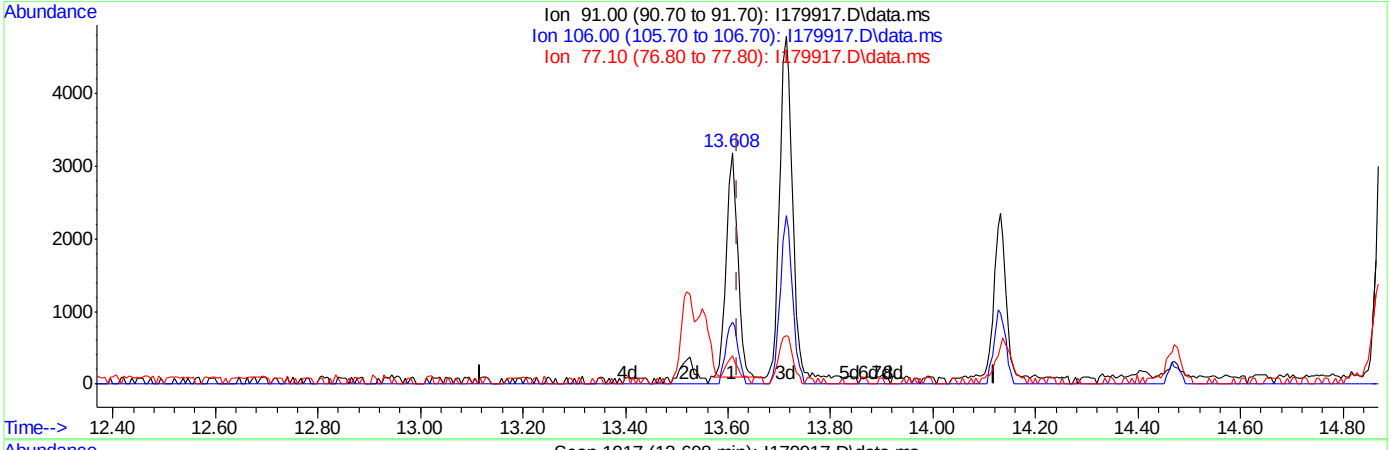
Ion	Exp%	Act%
78.00	100	100
77.10	26.00	27.14
52.10	20.80	26.03
0.00	0.00	0.00

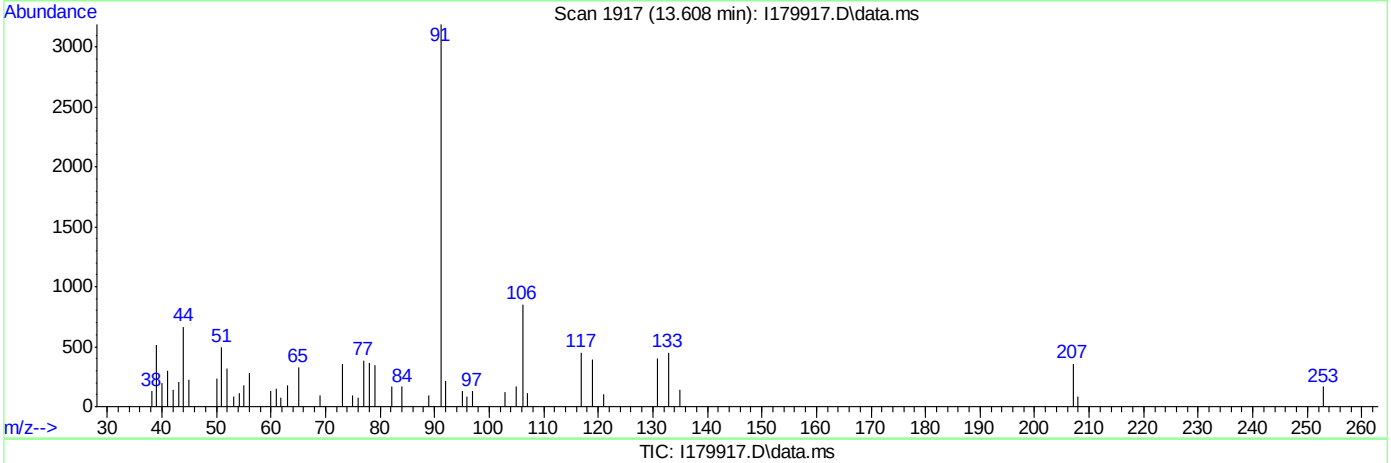
ACCUTEST LABORATORIES JB28370

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179917.D\data.ms

(85) ethylbenzene

13.608min (-0.010) 0.76ug/L m

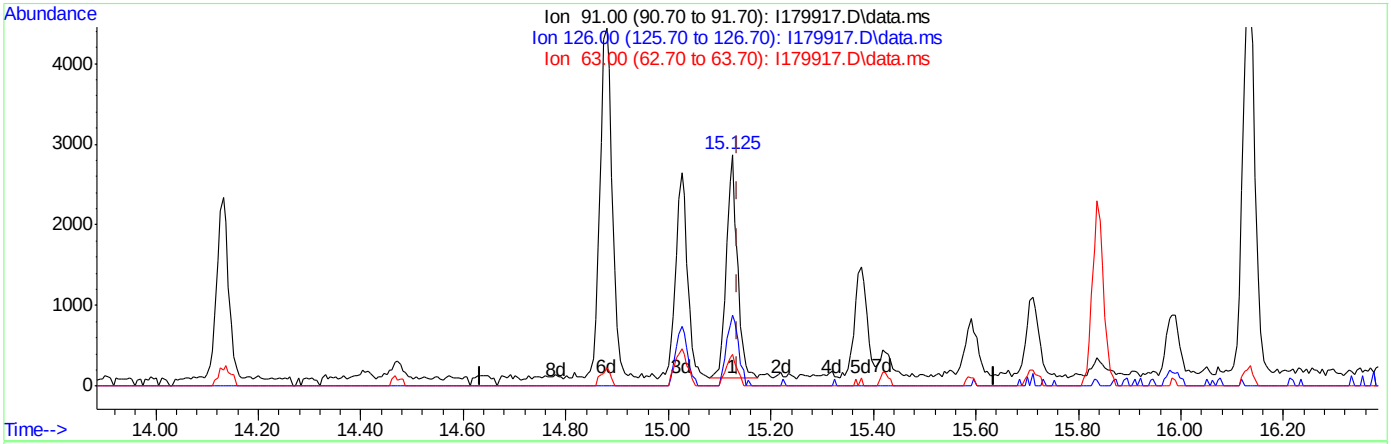
response 4811

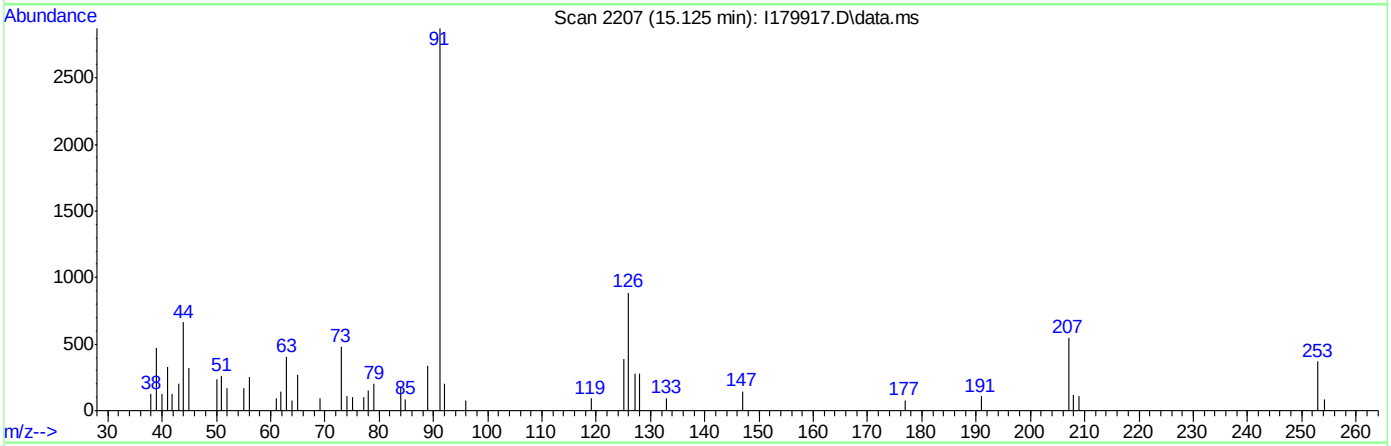
Ion	Exp%	Act%
91.00	100	100
106.00	26.80	26.75
77.10	9.90	12.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179917.D
Acq On : 28 Dec 2012 10:21 am
Operator : SCOTTM
Sample : IC7266-0.5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 28 15:28:09 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(100) 4-chlorotoluene

15.125min (-0.010) 0.90ug/L m

response 4140

Ion	Exp%	Act%
91.00	100	100
126.00	28.90	30.81
63.00	16.80	13.96
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/04/13 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	68889	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	166049	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.365	114	250947	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	200133	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.836	152	105647	50.00	ug/L	-0.02

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	0	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
2) tertiary butyl alcohol	7.348	59	1080	9.46	ug/L #	1
6) chlorodifluoromethane	3.896	51	1926	0.77	ug/L	86
7) dichlorodifluoromethane	3.870	85	2387	0.98	ug/L	93
8) chloromethane	4.209	50	2751	1.13	ug/L	97
9) vinyl chloride	4.455	62	2360	1.03	ug/L	95
10) bromomethane	5.083	94	1465	1.60	ug/L	76
11) chloroethane	5.261	64	975	1.04	ug/L	65
12) trichlorofluoromethane	5.716	101	2091m	1.26	ug/L	
13) ethyl ether	6.129	74	1127	2.29	ug/L #	69
14) acrolein	6.385	56	2943	25.14	ug/L	84
15) freon 113	6.506	151	922	1.07	ug/L #	97
16) 1,1-dichloroethene	6.553	61	2728	1.09	ug/L	97
18) iodomethane	6.825	142	2631	1.60	ug/L	91
19) carbon disulfide	6.950	76	5847	1.30	ug/L	93
21) allyl chloride	7.076	76	1032	1.45	ug/L #	38
23) methylene chloride	7.264	84	2230	2.07	ug/L #	82
24) methyl tert butyl ether	7.588	73	4893	1.76	ug/L	96
25) acrylonitrile	7.604	53	2636	12.26	ug/L	90
26) trans-1,2-dichloroethene	7.646	96	1661	1.36	ug/L	72
28) di-isopropyl ether	8.184	45	6919	1.32	ug/L	90
30) 1,1-dichloroethane	8.200	63	3392	1.27	ug/L	94
31) chloroprene	8.310	53	3011	1.11	ug/L	93
32) ethyl tert-butyl ether	8.640	59	6126	1.53	ug/L	92
35) 2,2-dichloropropane	8.938	77	3362	1.44	ug/L	87
36) cis-1,2-dichloroethene	8.943	96	1831	1.44	ug/L #	75
39) bromochloromethane	9.241	128	728	1.84	ug/L #	65
41) chloroform	9.304	83	3375	1.56	ug/L	90
42) tert-Butyl Formate	9.340	59	1620	1.81	ug/L #	73
44) 1,1,1-trichloroethane	9.555	97	2672	1.26	ug/L	90
45) cyclohexane	9.623	84	2441	1.31	ug/L #	69
48) carbon tetrachloride	9.759	117	2051	1.21	ug/L	94
49) 1,1-dichloropropene	9.727	75	2421	1.21	ug/L	98
51) benzene	9.999	78	7007m	1.36	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 2,2,4-trimethylpentane	9.989	57	7231	1.12	ug/L		92
53) tert-amyl methyl ether	10.031	73	5227	1.74	ug/L		91
54) 1,2-dichloroethane	10.010	62	2330	1.47	ug/L		95
55) heptane	10.156	57	1628	1.32	ug/L		93
56) n-butyl alcohol	10.512	56	1980	110.43	ug/L	#	71
57) trichloroethene	10.716	95	1633	1.30	ug/L		88
58) ethyl acrylate	10.925	55	2732	1.09	ug/L	#	100
59) methyl methacrylate	10.993	69	885	2.29	ug/L	#	5
60) 1,2-dichloropropane	10.977	63	1793	1.36	ug/L		100
61) methylcyclohexane	10.930	83	2739	1.22	ug/L		82
62) dibromomethane	11.134	93	954	1.94	ug/L		90
63) bromodichloromethane	11.265	83	2297	1.58	ug/L		97
65) 2-chloroethyl vinyl ether	11.511	63	1988	6.88	ug/L		95
67) cis-1,3-dichloropropene	11.725	75	2893	1.70	ug/L	#	70
70) toluene	12.086	91	6904	1.41	ug/L		99
71) trans-1,3-dichloropropene	12.290	75	2378	1.77	ug/L		79
72) ethyl methacrylate	12.280	69	1471m	1.79	ug/L		
73) 1,1,2-trichloroethane	12.499	83	1038	1.96	ug/L		94
77) tetrachloroethene	12.672	166	1516	1.29	ug/L		90
78) 1,3-dichloropropane	12.682	76	2103	1.62	ug/L		99
81) dibromochloromethane	12.949	129	1302	1.69	ug/L		95
82) 1,2-dibromoethane	13.096	107	1161	1.89	ug/L	#	94
83) chlorobenzene	13.551	112	4049	1.36	ug/L		90
84) 1,1,1,2-tetrachloroethane	13.608	131	1421	1.40	ug/L		95
85) ethylbenzene	13.608	91	6880m	1.12	ug/L		
86) m,p-xylene	13.713	106	5306	2.52	ug/L		98
87) o-xylene	14.131	106	2608	1.34	ug/L		97
88) styrene	14.142	104	4251	1.44	ug/L		94
89) bromoform	14.408	173	702	1.77	ug/L		92
92) isopropylbenzene	14.466	105	6633	1.01	ug/L		95
94) 1,1,2,2-tetrachloroethane	14.780	83	1503	1.54	ug/L		88
95) trans-1,4-dichloro-2-b...	14.822	53	474	1.59	ug/L		94
96) 1,2,3-trichloropropane	14.853	110	290	1.51	ug/L		82
97) n-propylbenzene	14.879	91	8273	1.03	ug/L		94
98) bromobenzene	14.869	156	1686	1.41	ug/L		93
99) 2-chlorotoluene	15.026	126	1731	1.25	ug/L	#	79
100) 4-chlorotoluene	15.125	91	5254	1.15	ug/L		93
101) 1,3,5-trimethylbenzene	15.026	105	5799	1.07	ug/L		99
102) tert-butylbenzene	15.376	119	4746	1.08	ug/L		84
103) pentachloroethane	15.460	167	865	1.20	ug/L		98
104) 1,2,4-trimethylbenzene	15.423	105	6007	1.14	ug/L		93
105) sec-butylbenzene	15.590	105	7127	0.99	ug/L		97
106) p-isopropyltoluene	15.711	119	6020m	1.08	ug/l		
107) benzyl chloride	15.983	91	2357	1.43	ug/L		87
108) 1,3-dichlorobenzene	15.779	146	3329	1.38	ug/L		93
109) 1,4-dichlorobenzene	15.868	146	3478	1.48	ug/L		93
110) 1,2-dichlorobenzene	16.265	146	3165	1.46	ug/L		94
111) n-butylbenzene	16.129	92	3406	1.08	ug/L		88
114) 1,3,5-Trichlorobenzene	17.254	180	2713	1.46	ug/L		98
115) 1,2,4-trichlorobenzene	17.902	180	2299	1.77	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
116) hexachlorobutadiene	18.023	225	1413	1.30 ug/L	89
118) 1,2,3-trichlorobenzene	18.436	180	1942	1.79 ug/L	97

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

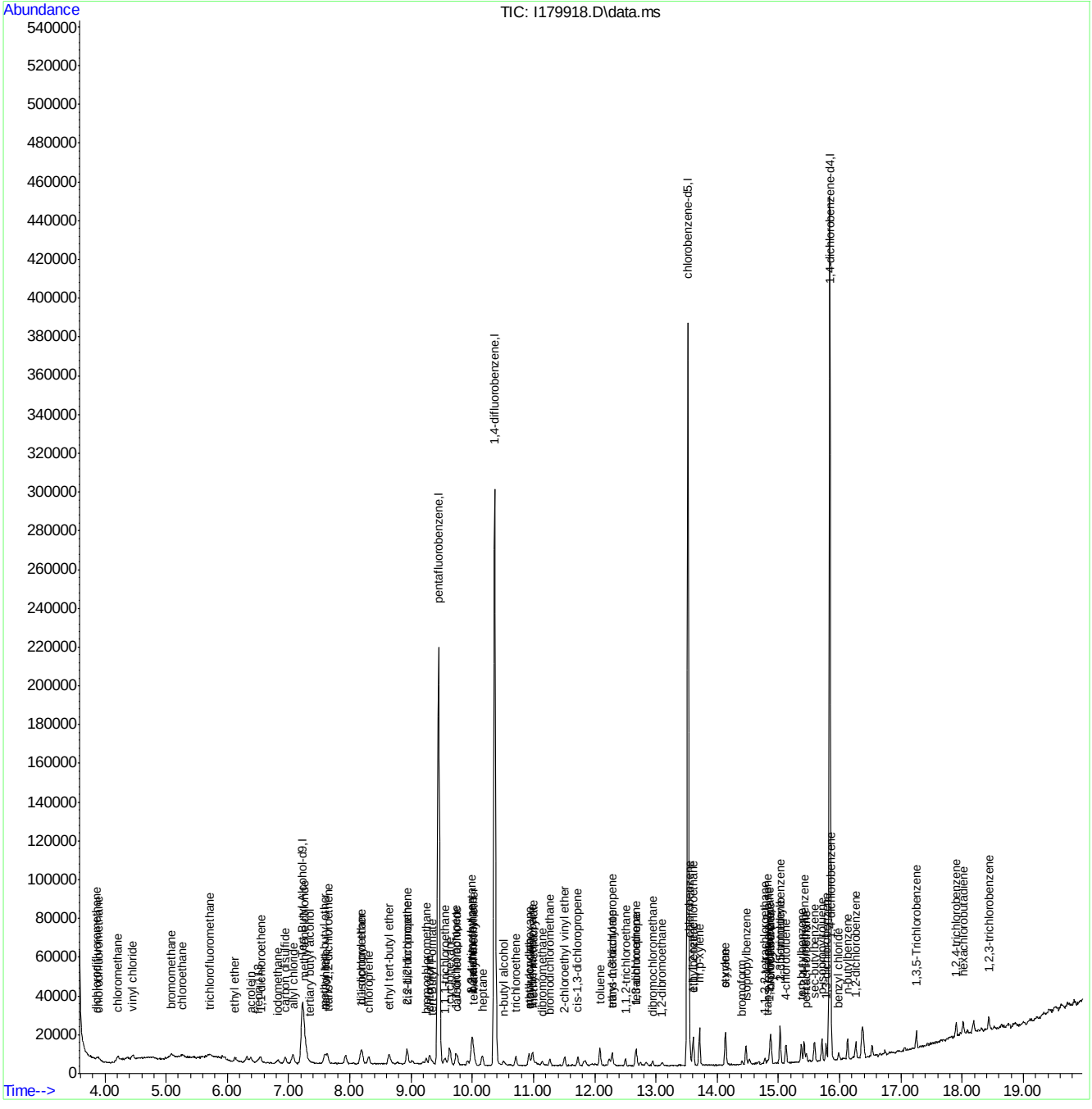
7.7.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Manual Integration Approval Summary

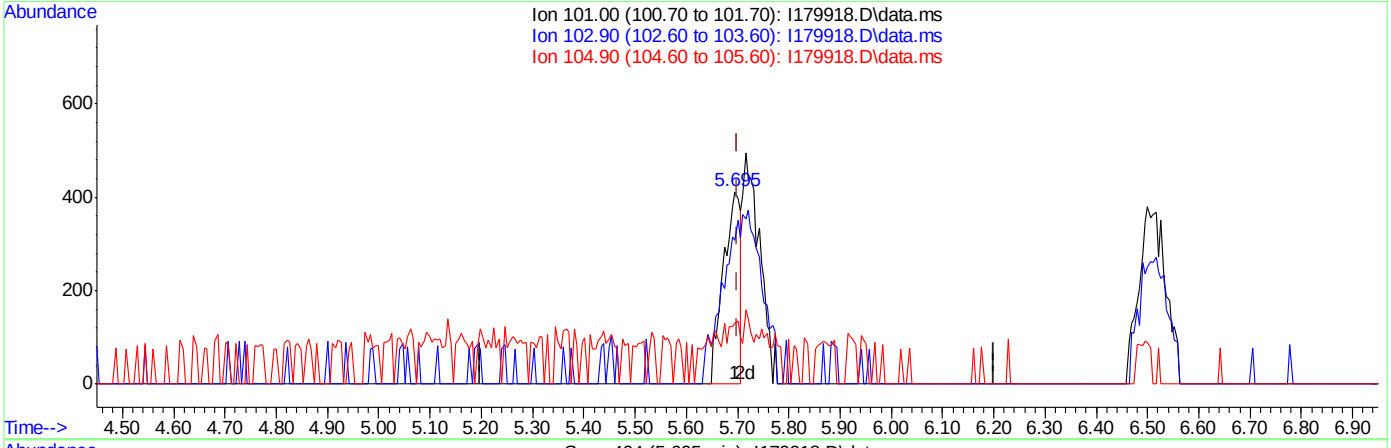
Sample Number:	VI7266-IC7266	**Method:**	SW846 8260B
Lab FileID:	I179918.D	**Analyst approved:**	12/31/12 12:35 Scott McGonigal
Injection Time:	12/28/12 10:50	**Supervisor approved:**	01/04/13 13:45 Kanya Veerawat

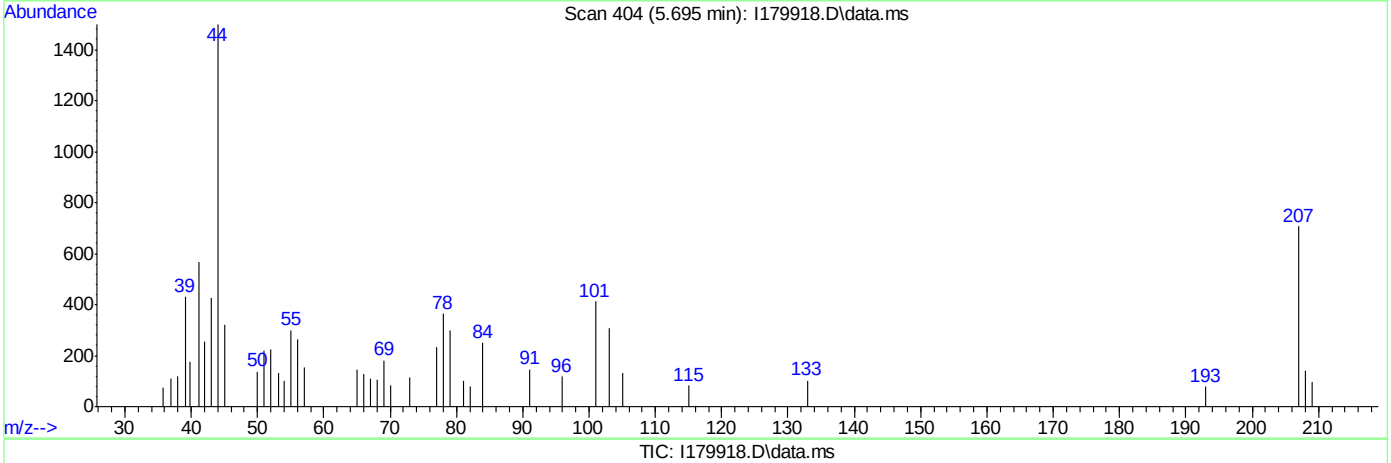
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		5.72	Poor instrument integration
Benzene	71-43-2		10.00	Poorly defined baseline
Ethyl methacrylate	97-63-2		12.28	Poorly defined baseline
Ethylbenzene	100-41-4		13.61	Poorly defined baseline
p-Isopropyltoluene	99-87-6		15.71	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:13:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(12) trichlorofluoromethane

5.695min (-0.005) 0.57ug/L

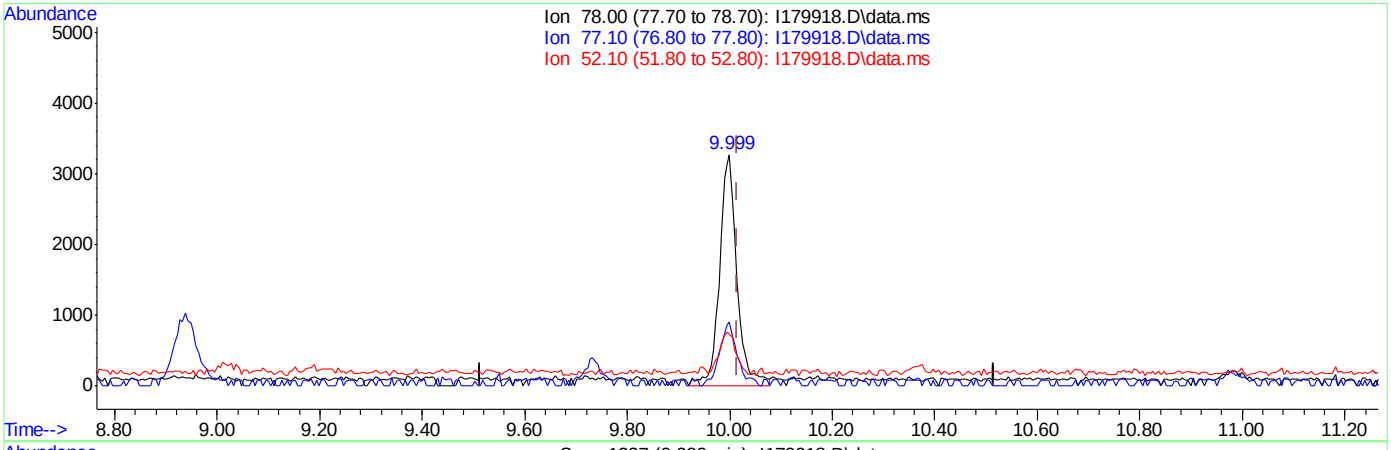
response 950

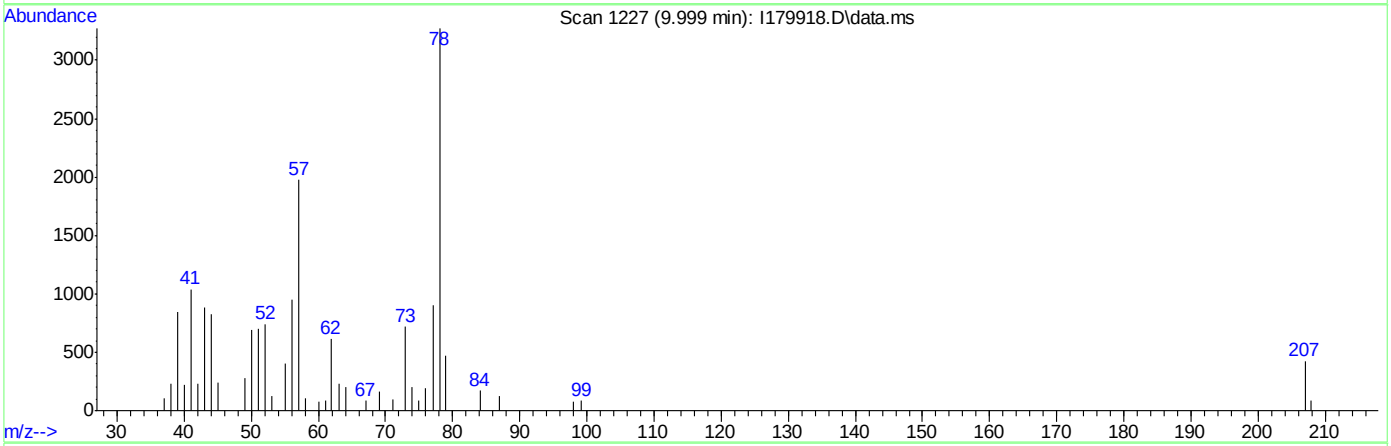
Ion	Exp%	Act%
101.00	100	100
102.90	61.20	49.03
104.90	11.20	7.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:13:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(51) benzene

9.999min (-0.016) 1.51ug/L

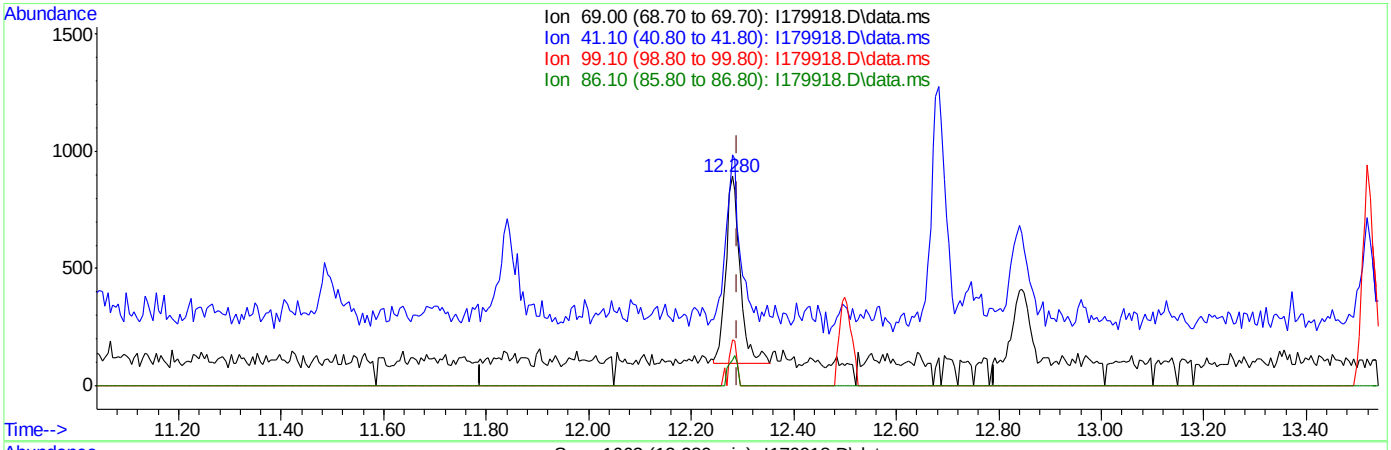
response 7788

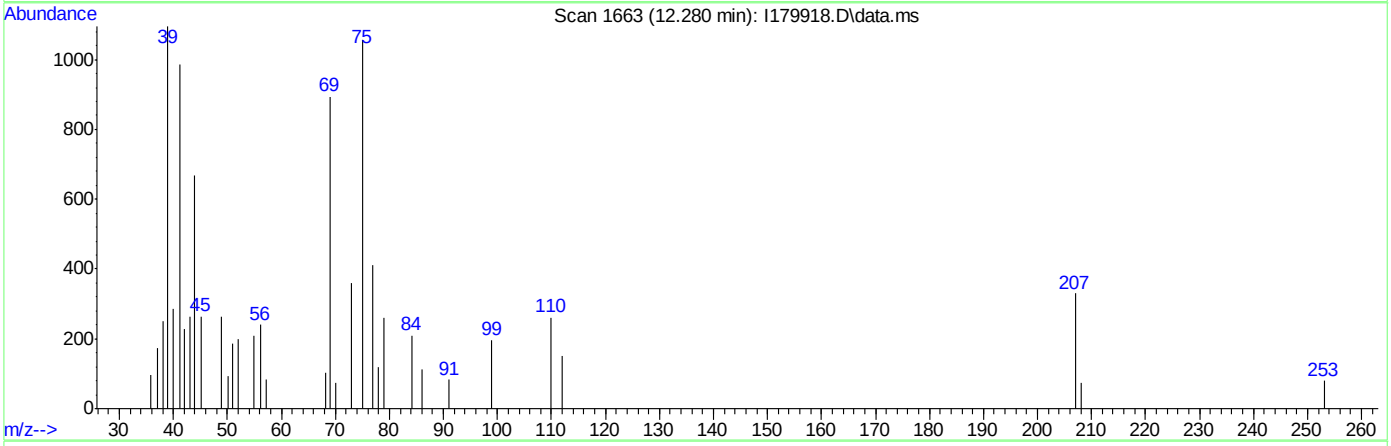
Ion	Exp%	Act%
78.00	100	100
77.10	26.00	27.71
52.10	20.80	16.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:13:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(72) ethyl methacrylate

12.280min (-0.011) 1.89ug/L

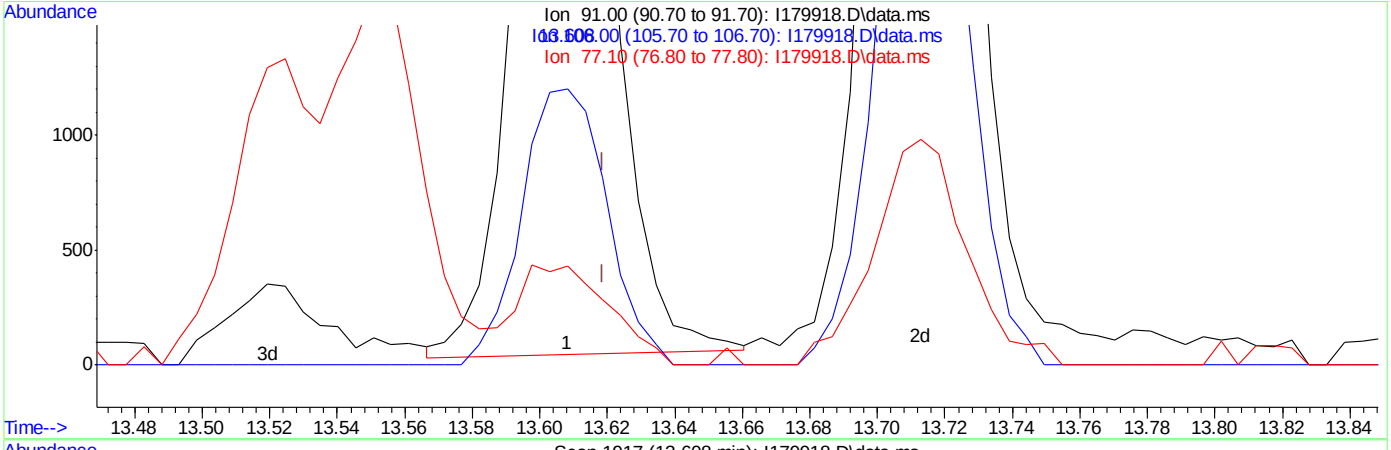
response 1552

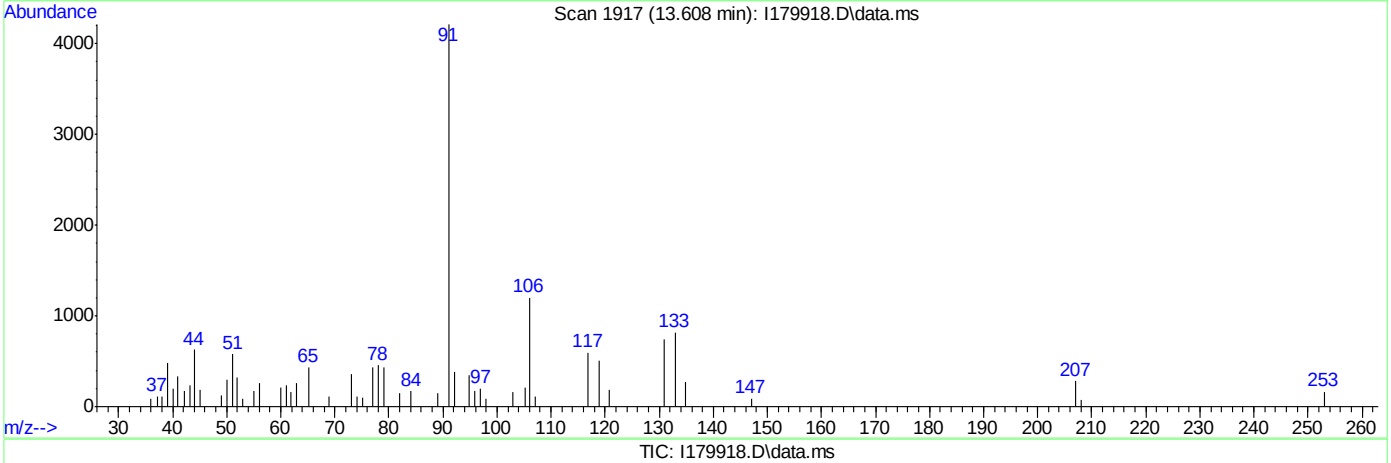
Ion	Exp%	Act%
69.00	100	100
41.10	106.80	88.44
99.10	16.20	24.62
86.10	14.40	14.07

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:13:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(85) ethylbenzene

13.608min (-0.011) 1.15ug/L

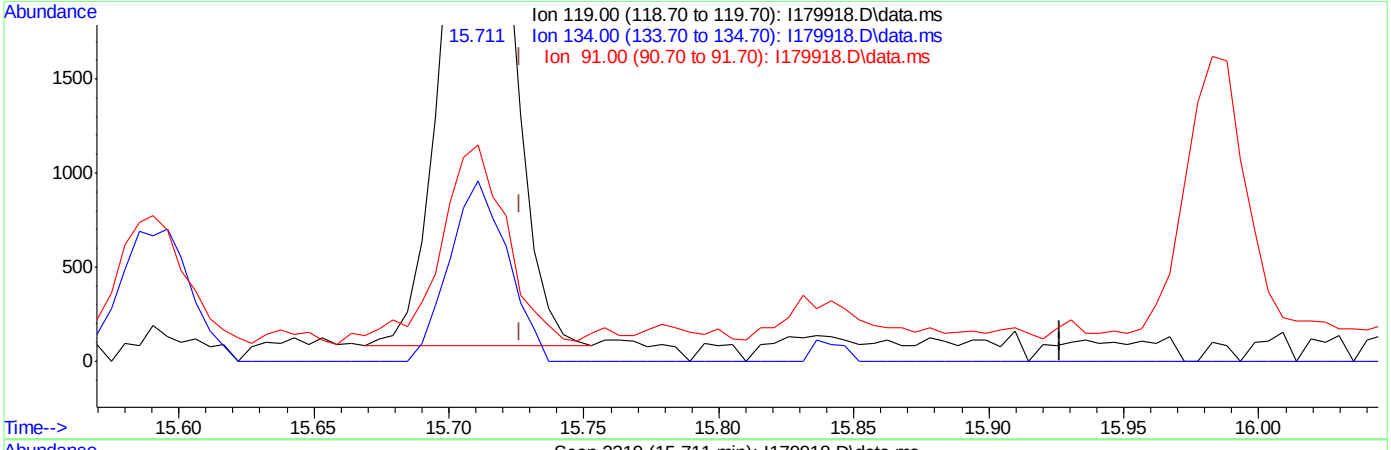
response 7060

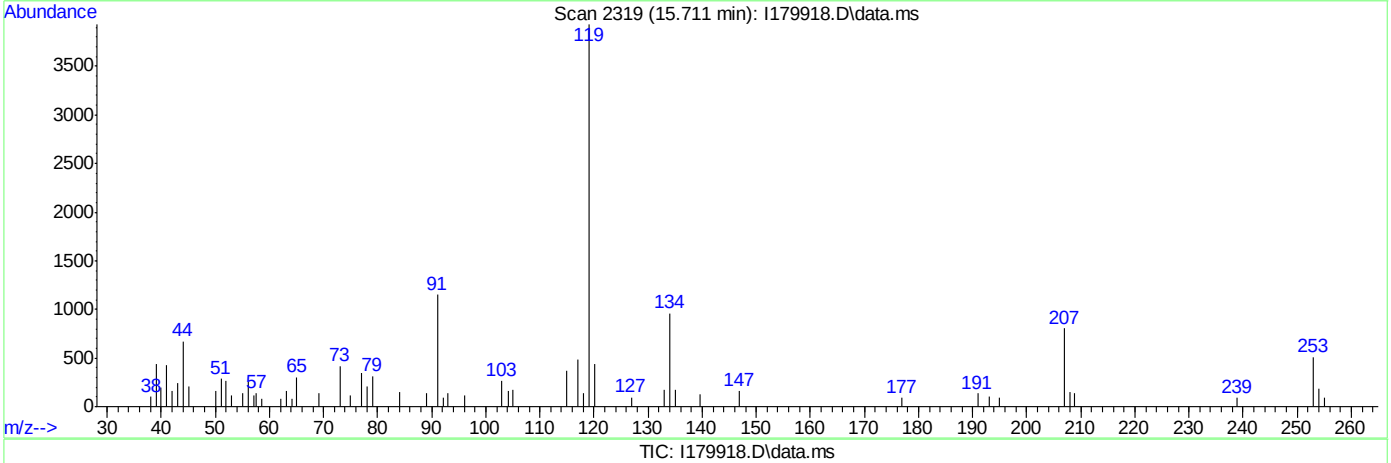
Ion	Exp%	Act%
91.00	100	100
106.00	26.80	29.10
77.10	9.90	10.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:13:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(106) p-isopropyltoluene

15.711min (-0.016) 1.07ug/l

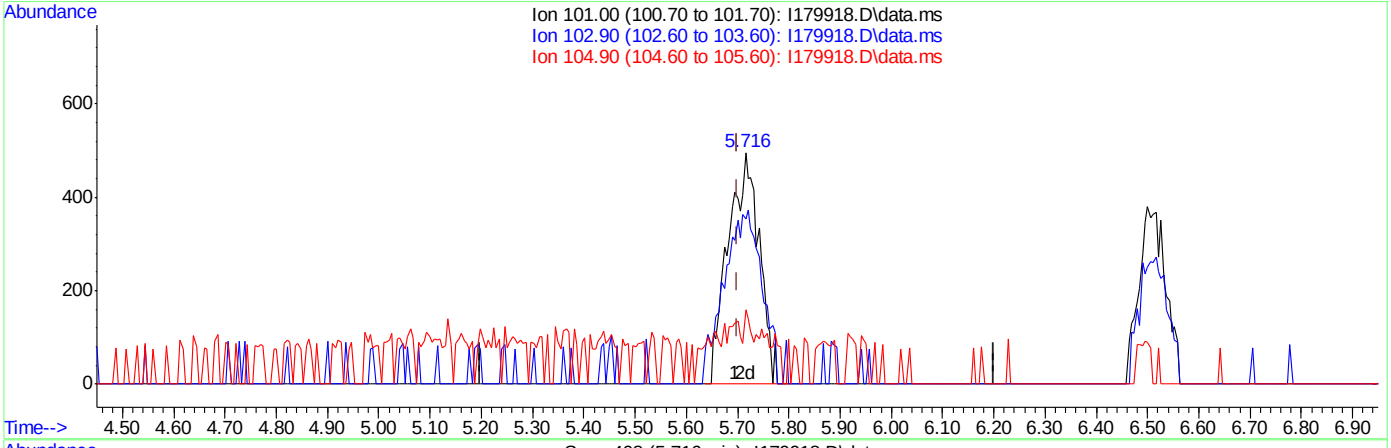
response 5990

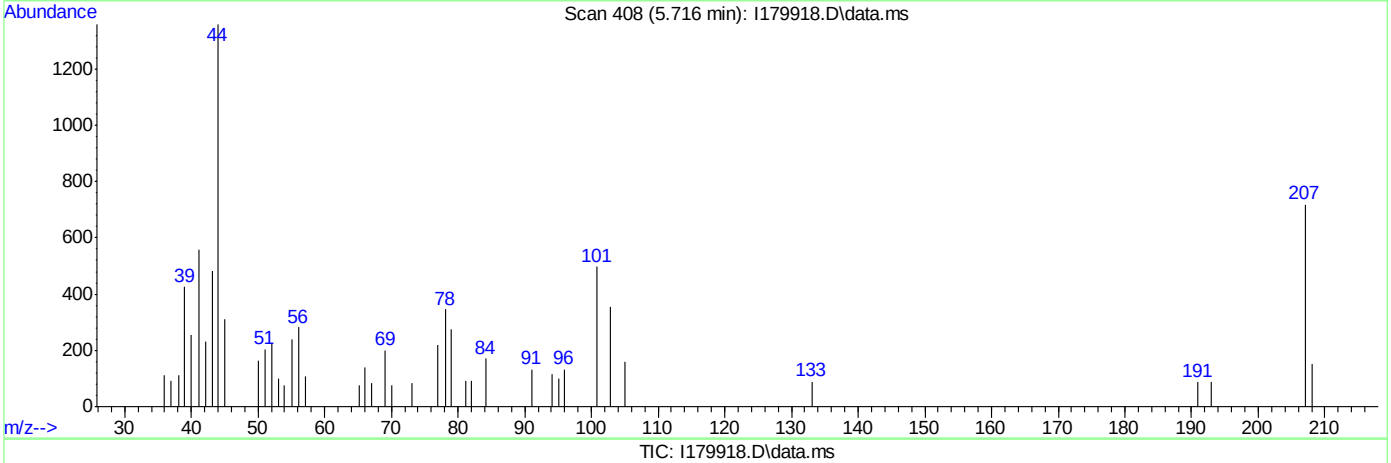
Ion	Exp%	Act%
119.00	100	100
134.00	23.40	23.94
91.00	27.10	30.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(12) trichlorofluoromethane

5.716min (+0.016) 1.26ug/L m

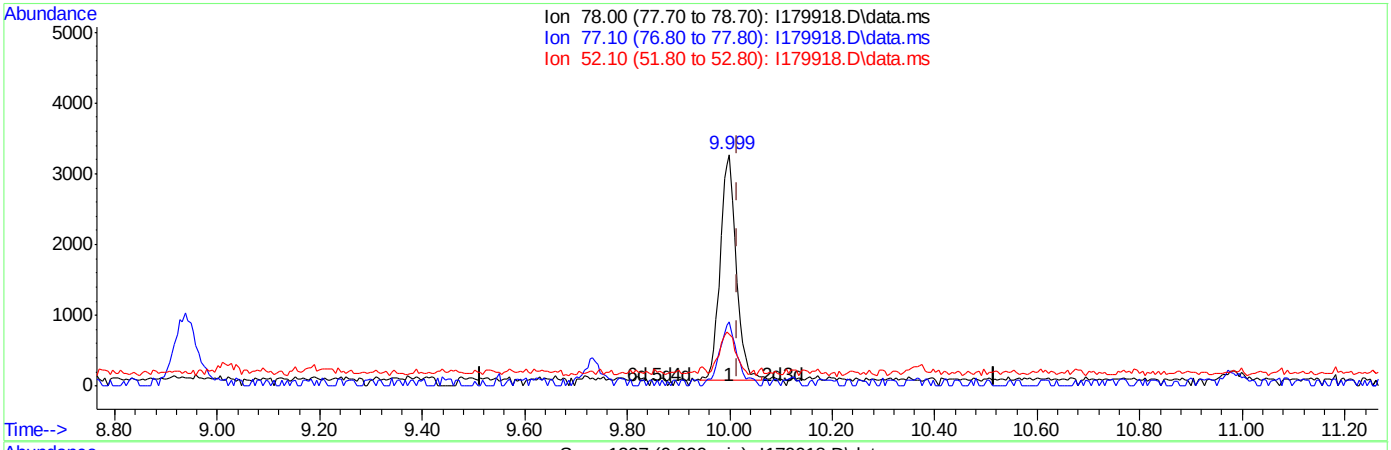
response 2091

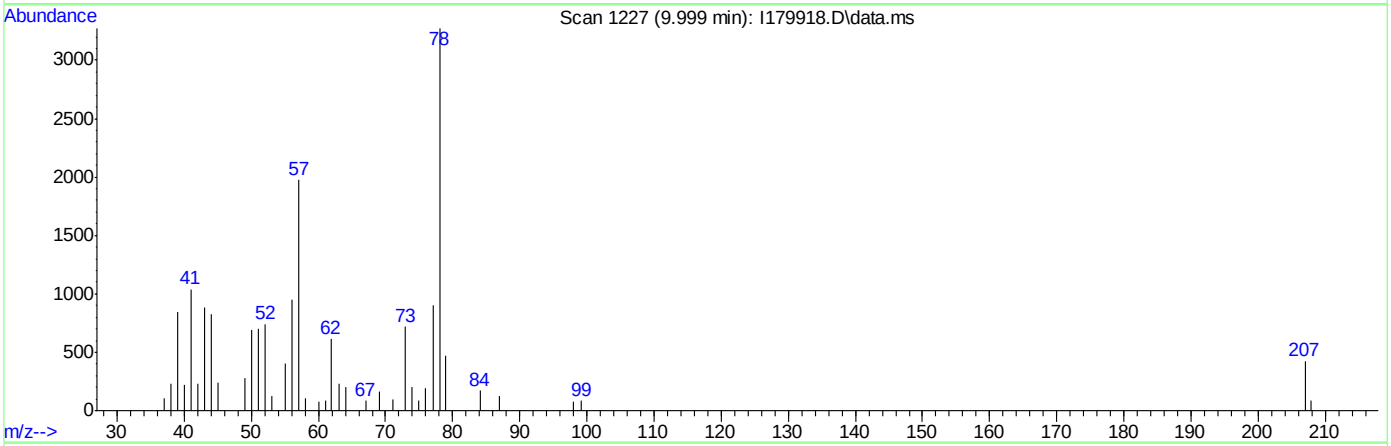
Ion	Exp%	Act%
101.00	100	100
102.90	61.20	71.17
104.90	11.20	32.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(51) benzene

9.999min (-0.016) 1.36ug/L m

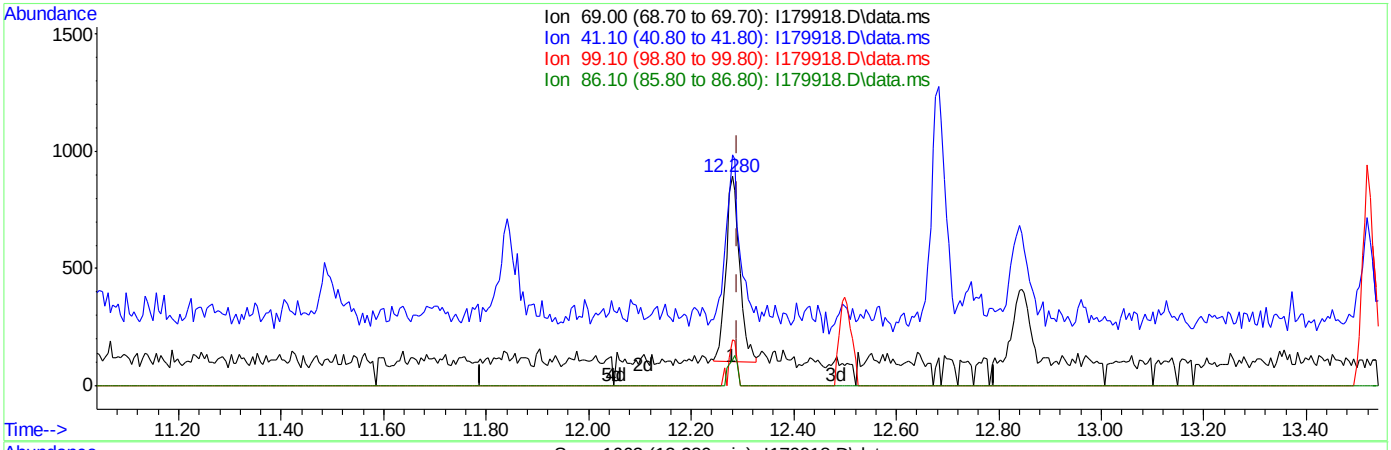
response 7007

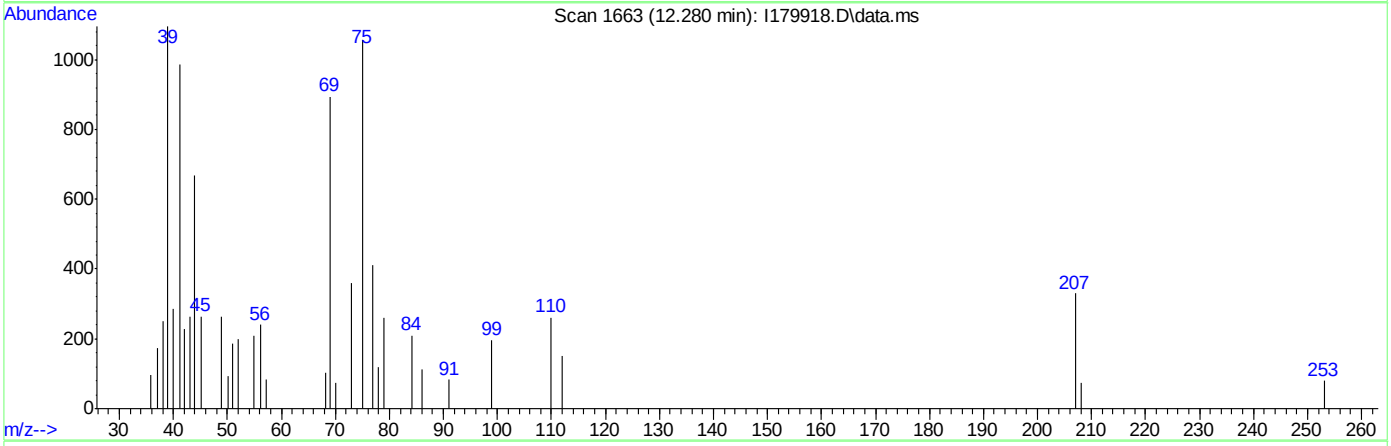
Ion	Exp%	Act%
78.00	100	100
77.10	26.00	27.71
52.10	20.80	22.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179918.D\data.ms

(72) ethyl methacrylate

12.280min (-0.011) 1.79ug/L m

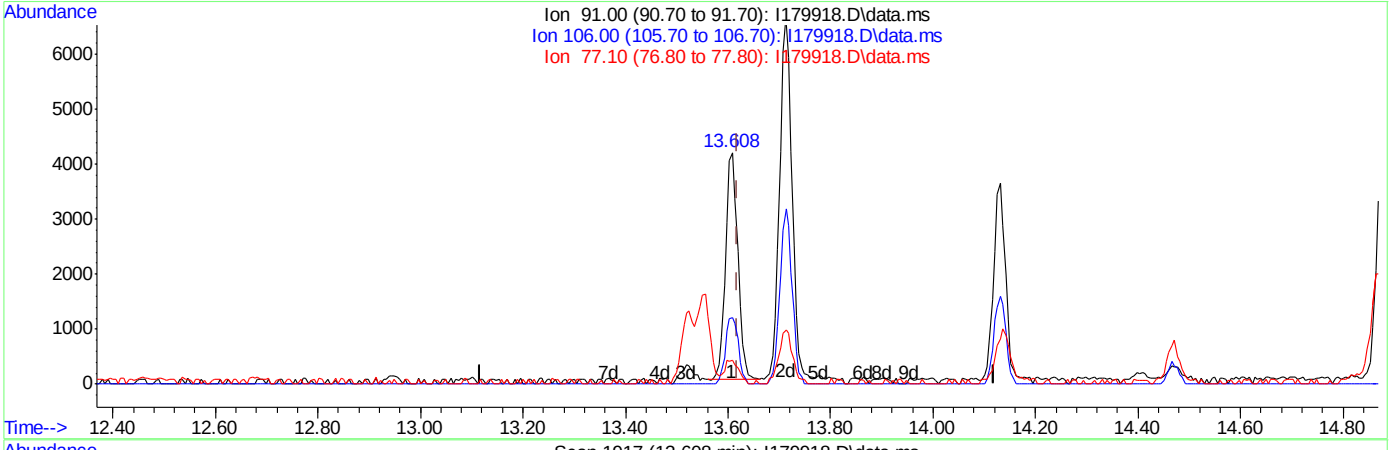
response 1471

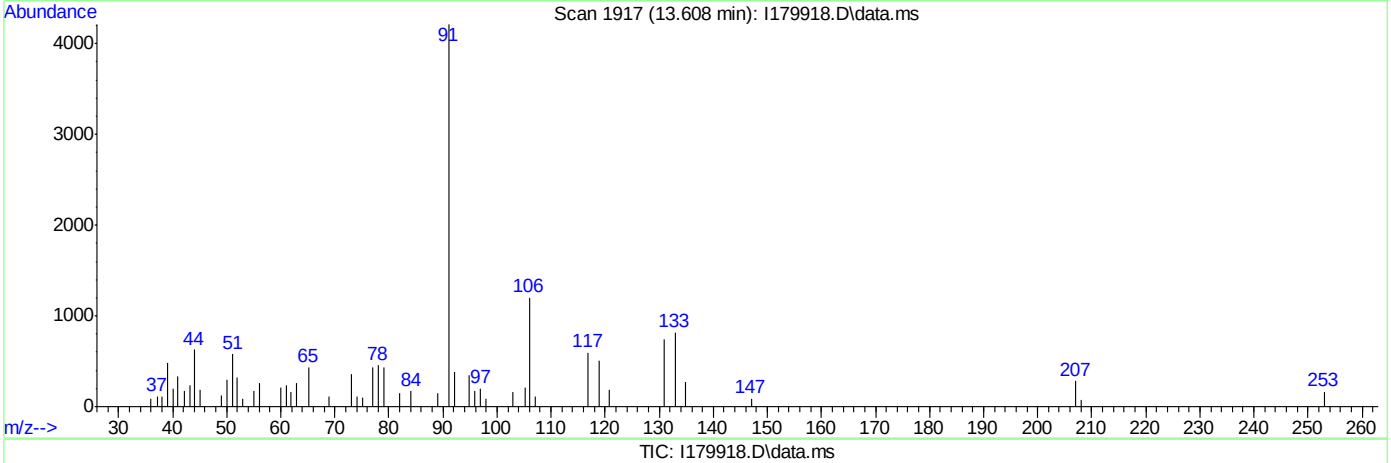
Ion	Exp%	Act%
69.00	100	100
41.10	106.80	110.41
99.10	16.20	21.95
86.10	14.40	12.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(85) ethylbenzene

13.608min (-0.011) 1.12ug/L m

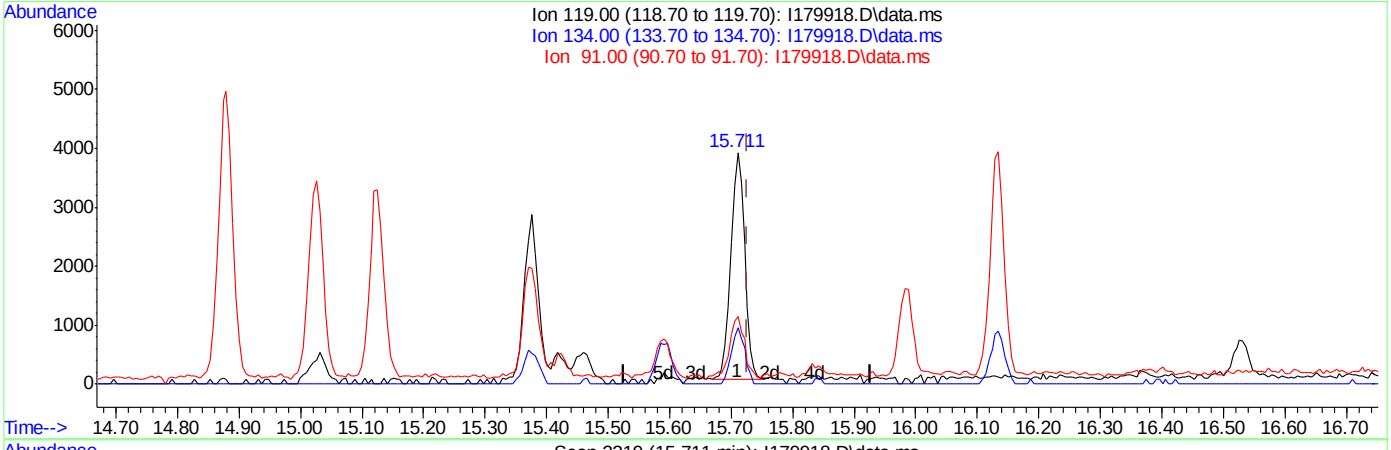
response 6880

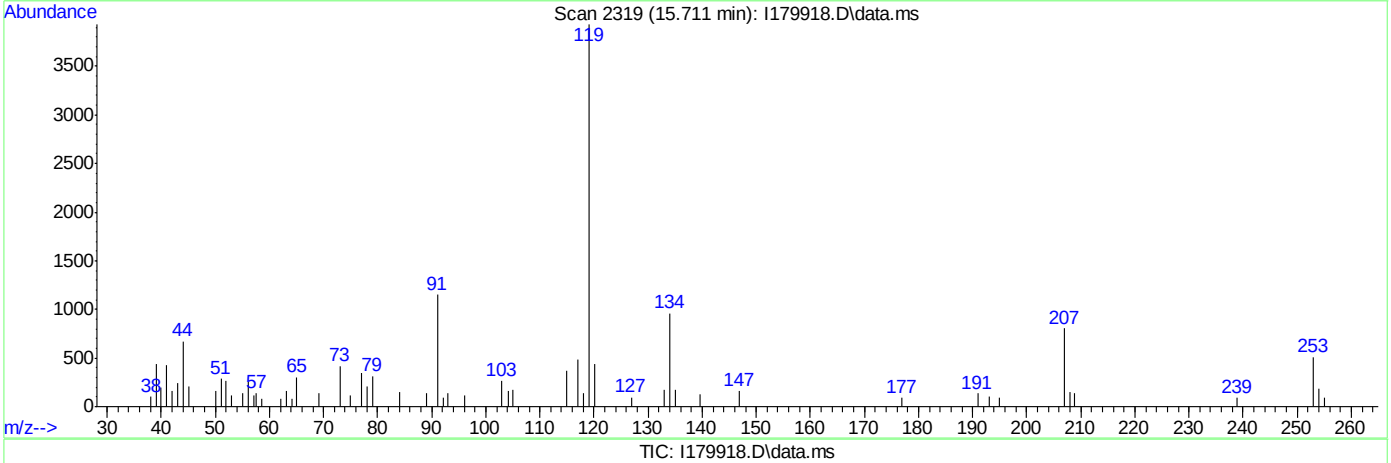
Ion	Exp%	Act%
91.00	100	100
106.00	26.80	28.55
77.10	9.90	10.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179918.D
Acq On : 28 Dec 2012 10:50 am
Operator : SCOTTM
Sample : IC7266-1
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 15:08:48 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(106) p-isopropyltoluene

15.711min (-0.016) 1.08ug/l m

response 6020

Ion	Exp%	Act%
119.00	100	100
134.00	23.40	23.82
91.00	27.10	30.55
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/04/13 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 13:19:59 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.222	65	75436	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	178764	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.366	114	271416	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	219094	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.842	152	115359	50.00	ug/L	-0.02

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
2) tertiary butyl alcohol	7.337	59	1892	15.14	ug/L	#	20
4) 1,4-dioxane	11.093	88	538	63.73	ug/L	#	65
6) chlorodifluoromethane	3.906	51	3938	1.47	ug/L		82
7) dichlorodifluoromethane	3.885	85	4631	1.77	ug/L		94
8) chloromethane	4.210	50	5171	1.97	ug/L		96
9) vinyl chloride	4.455	62	4643	1.87	ug/L		94
10) bromomethane	5.093	94	2542	2.58	ug/L		89
11) chloroethane	5.271	64	1910	1.90	ug/L		97
12) trichlorofluoromethane	5.711	101	4531	2.54	ug/L		95
13) ethyl ether	6.124	74	2080	3.93	ug/L	#	69
14) acrolein	6.375	56	5737	45.53	ug/L		94
15) freon 113	6.506	151	2080	2.24	ug/L		93
16) 1,1-dichloroethene	6.542	61	5533	2.05	ug/L		88
18) iodomethane	6.819	142	5196	2.93	ug/L	#	55
19) carbon disulfide	6.945	76	11516	2.38	ug/L		94
20) methyl acetate	7.055	74	450	4.20	ug/L		96
21) allyl chloride	7.071	76	1996	2.60	ug/L	#	68
22) acetonitrile	7.071	41	10596	24.07	ug/L		81
23) methylene chloride	7.264	84	4011	3.45	ug/L	#	81
24) methyl tert butyl ether	7.588	73	10934	3.65	ug/L		98
25) acrylonitrile	7.594	53	5591	24.15	ug/L		84
26) trans-1,2-dichloroethene	7.630	96	3878	2.94	ug/L		75
27) hexane	7.928	57	5571	2.46	ug/L		91
28) di-isopropyl ether	8.179	45	13929	2.48	ug/L		94
29) vinyl acetate	8.200	65	2267	2.48	ug/L	#	95
30) 1,1-dichloroethane	8.195	63	6852	2.39	ug/L		96
31) chloroprene	8.305	53	5882	2.01	ug/L		92
32) ethyl tert-butyl ether	8.645	59	12359	2.87	ug/L		90
34) ethyl acetate	8.922	45	593	4.61	ug/L	#	1
35) 2,2-dichloropropane	8.932	77	6048	2.41	ug/L		91
36) cis-1,2-dichloroethene	8.938	96	3685	2.68	ug/L		89
37) methacrylonitrile	9.189	67	1199	4.74	ug/L	#	62
38) propionitrile	9.006	54	3778	40.43	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 13:19:59 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
39) bromochloromethane	9.241	128	1443	3.38 ug/L #	65
40) tetrahydrofuran	9.283	42	1352	4.00 ug/L	93
41) chloroform	9.304	83	6421	2.76 ug/L	92
42) tert-Butyl Formate	9.335	59	3035	3.14 ug/L #	81
44) 1,1,1-trichloroethane	9.555	97	5173	2.26 ug/L	93
45) cyclohexane	9.628	84	5190	2.59 ug/L	84
48) carbon tetrachloride	9.754	117	4322	2.36 ug/L	92
49) 1,1-dichloropropene	9.727	75	5015	2.31 ug/L	88
50) isopropyl acetate	9.916	61	1050	3.22 ug/L	89
51) benzene	9.994	78	14228	2.56 ug/L	93
52) 2,2,4-trimethylpentane	9.984	57	14744	2.11 ug/L	92
53) tert-amyl methyl ether	10.020	73	10638	3.27 ug/L	89
54) 1,2-dichloroethane	10.015	62	4769	2.79 ug/L	98
55) heptane	10.162	57	3124	2.34 ug/L	97
56) n-butyl alcohol	10.507	56	3284	169.35 ug/L	92
57) trichloroethene	10.711	95	3462	2.55 ug/L	92
58) ethyl acrylate	10.930	55	5397	2.00 ug/L #	100
59) methyl methacrylate	10.988	69	1681	4.03 ug/L #	12
60) 1,2-dichloropropane	10.978	63	3761	2.64 ug/L	99
61) methylcyclohexane	10.930	83	5760	2.38 ug/L	87
62) dibromomethane	11.140	93	1870	3.52 ug/L	87
63) bromodichloromethane	11.265	83	4521	2.88 ug/L	98
65) 2-chloroethyl vinyl ether	11.511	63	4133	13.23 ug/L	97
66) epichlorohydrin	11.637	57	1423	24.21 ug/L #	85
67) cis-1,3-dichloropropene	11.725	75	5608	3.04 ug/L	75
70) toluene	12.086	91	14072	2.65 ug/L	99
71) trans-1,3-dichloropropene	12.285	75	4848	3.33 ug/L	80
72) ethyl methacrylate	12.275	69	3304	3.72 ug/L	84
73) 1,1,2-trichloroethane	12.500	83	2138	3.73 ug/L	94
77) tetrachloroethene	12.672	166	3546	2.76 ug/L	95
78) 1,3-dichloropropane	12.688	76	4191	2.94 ug/L	93
79) butyl acetate	12.745	56	1559	3.01 ug/L	90
80) 3,3-Dimethyl-1-Butanol	12.839	57	2263	32.40 ug/L #	77
81) dibromochloromethane	12.949	129	2605	3.08 ug/L	97
82) 1,2-dibromoethane	13.096	107	2373	3.52 ug/L #	100
83) chlorobenzene	13.551	112	8367	2.57 ug/L	83
84) 1,1,1,2-tetrachloroethane	13.608	131	2785	2.51 ug/L	98
85) ethylbenzene	13.608	91	15466	2.29 ug/L	95
86) m,p-xylene	13.713	106	11531	5.01 ug/L	98
87) o-xylene	14.131	106	5320	2.49 ug/L	86
88) styrene	14.142	104	8946	2.76 ug/L	98
89) bromoform	14.409	173	1550	3.56 ug/L	94
92) isopropylbenzene	14.471	105	14477	2.01 ug/L	98
93) cyclohexanone	14.639	55	1290	67.09 ug/L	84
94) 1,1,2,2-tetrachloroethane	14.780	83	2916	2.73 ug/L	97
95) trans-1,4-dichloro-2-b...	14.822	53	1023	3.14 ug/L	96
96) 1,2,3-trichloropropane	14.853	110	624	2.97 ug/L	90
97) n-propylbenzene	14.879	91	18257	2.08 ug/L	95
98) bromobenzene	14.869	156	3495	2.67 ug/L #	90
99) 2-chlorotoluene	15.026	126	3492	2.31 ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 13:19:59 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

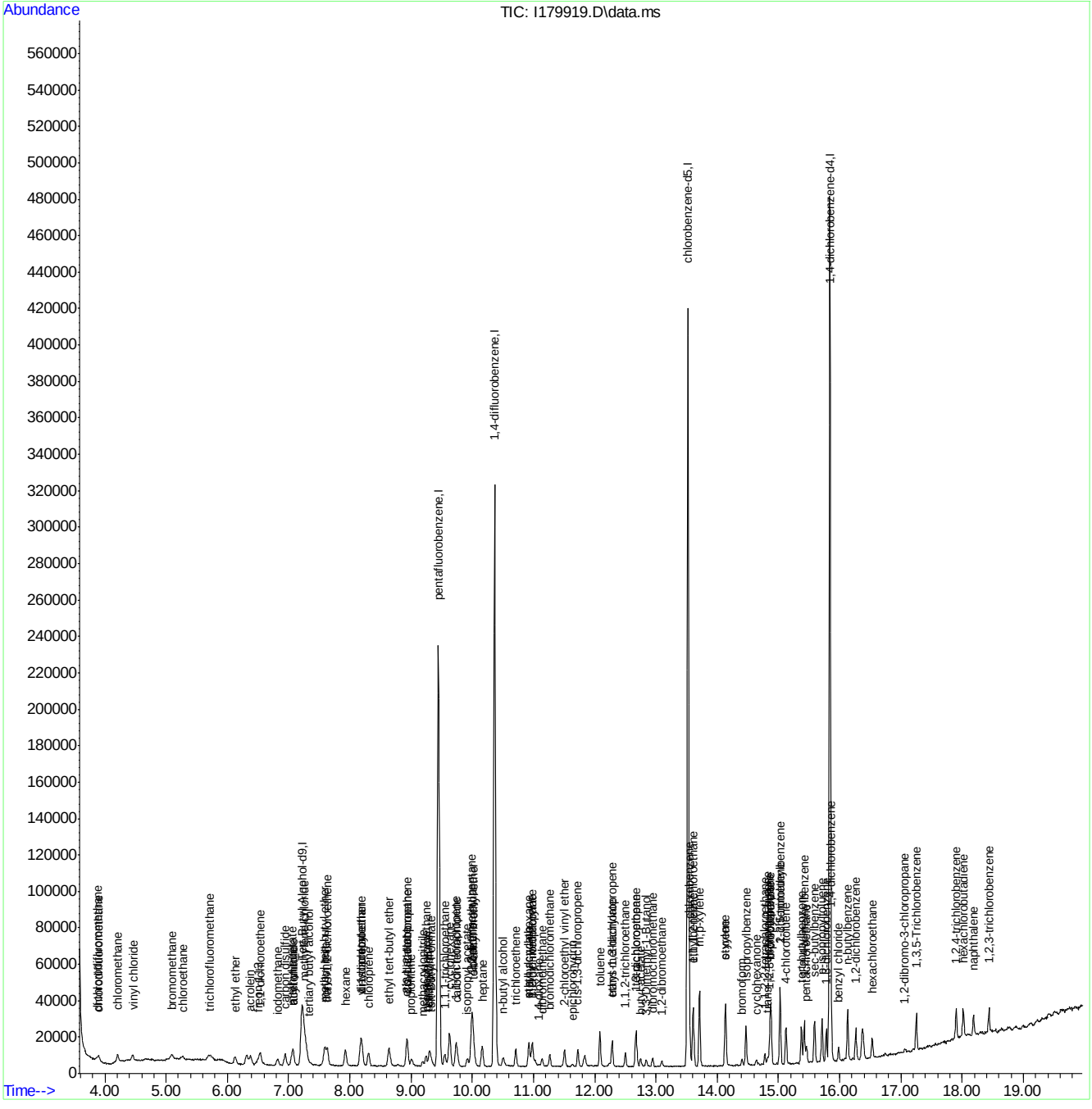
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
100) 4-chlorotoluene	15.125	91	11691	2.34 ug/L	94
101) 1,3,5-trimethylbenzene	15.031	105	12724	2.16 ug/L	99
102) tert-butylbenzene	15.376	119	9797	2.04 ug/L	86
103) pentachloroethane	15.460	167	1797	2.29 ug/L	93
104) 1,2,4-trimethylbenzene	15.423	105	12735	2.22 ug/L	89
105) sec-butylbenzene	15.591	105	16345	2.09 ug/L	98
106) p-isopropyltoluene	15.711	119	14203	2.32 ug/l	96
107) benzyl chloride	15.983	91	4987	2.76 ug/L	93
108) 1,3-dichlorobenzene	15.784	146	7111	2.69 ug/L	96
109) 1,4-dichlorobenzene	15.868	146	7307	2.85 ug/L	98
110) 1,2-dichlorobenzene	16.265	146	6383	2.70 ug/L	94
111) n-butylbenzene	16.135	92	8501	2.47 ug/L	90
112) hexachloroethane	16.532	119	2138m	1.73 ug/L	
113) 1,2-dibromo-3-chloropr...	17.066	157	517	3.38 ug/L #	79
114) 1,3,5-Trichlorobenzene	17.254	180	6388	3.15 ug/L	100
115) 1,2,4-trichlorobenzene	17.902	180	4905	3.46 ug/L	96
116) hexachlorobutadiene	18.023	225	3541	2.99 ug/L	93
117) naphthalene	18.185	128	7461	3.28 ug/L	98
118) 1,2,3-trichlorobenzene	18.441	180	3976	3.36 ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 13:19:59 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Manual Integration Approval Summary

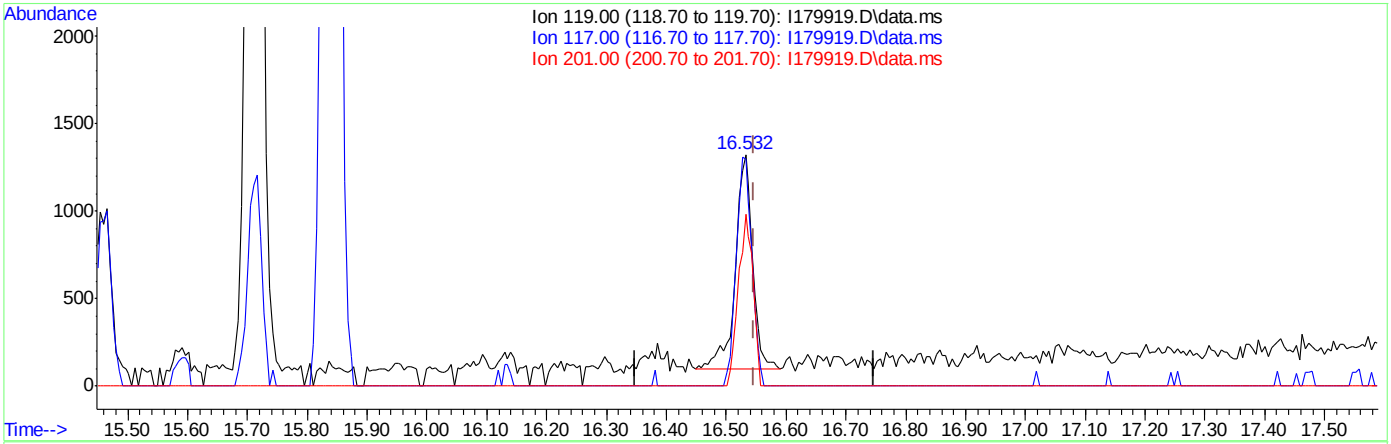
Sample Number:	VI7266-IC7266	**Method:**	SW846 8260B
Lab FileID:	I179919.D	**Analyst approved:**	12/31/12 12:35 Scott McGonigal
Injection Time:	12/28/12 11:30	**Supervisor approved:**	01/04/13 13:45 Kanya Veerawat

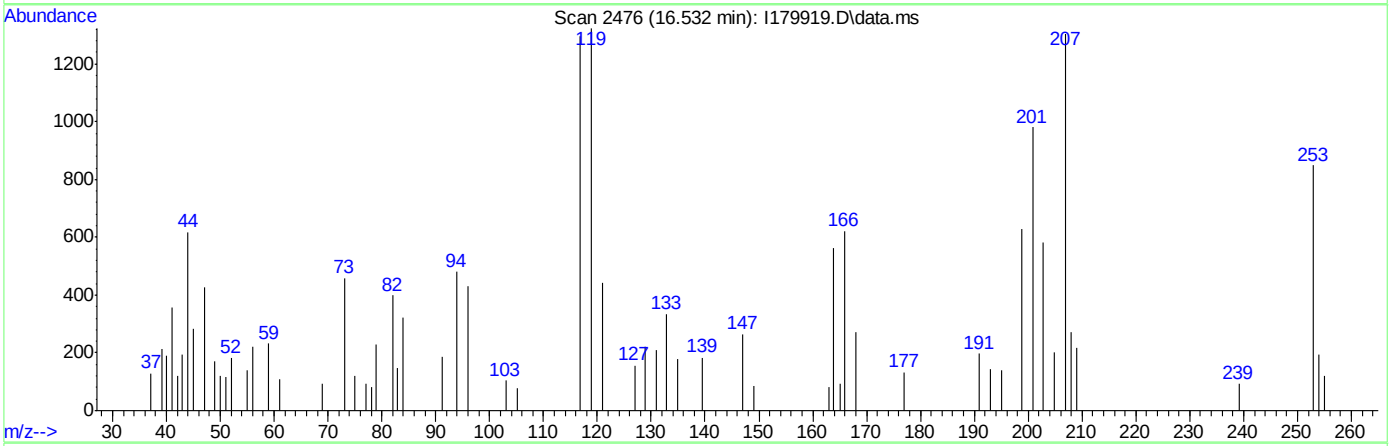
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachloroethane	67-72-1		16.53	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266RAW\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 11:53:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7225.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





(112) hexachloroethane

16.532min (-0.016) 1.99ug/L

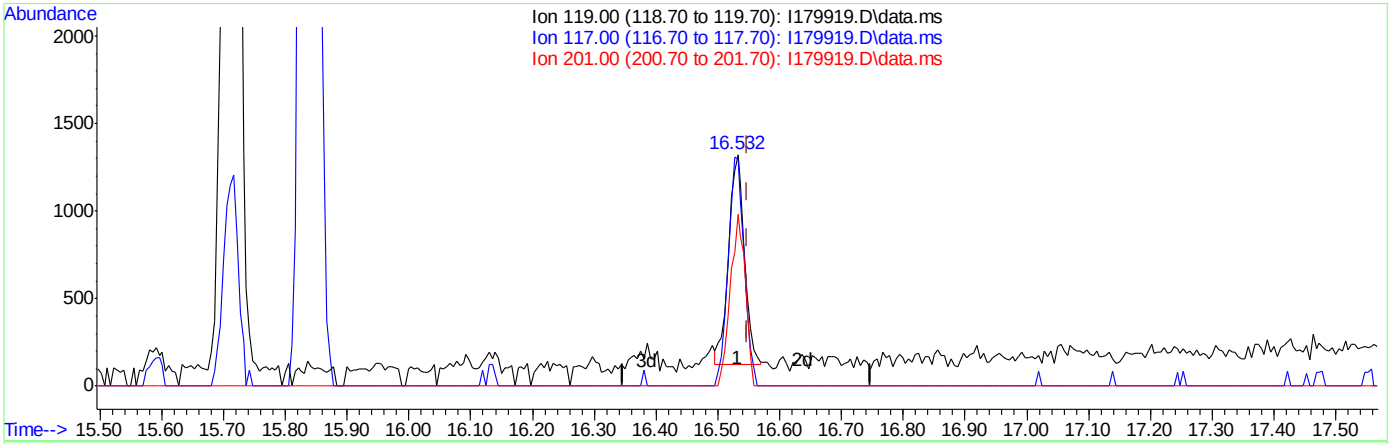
response 2461

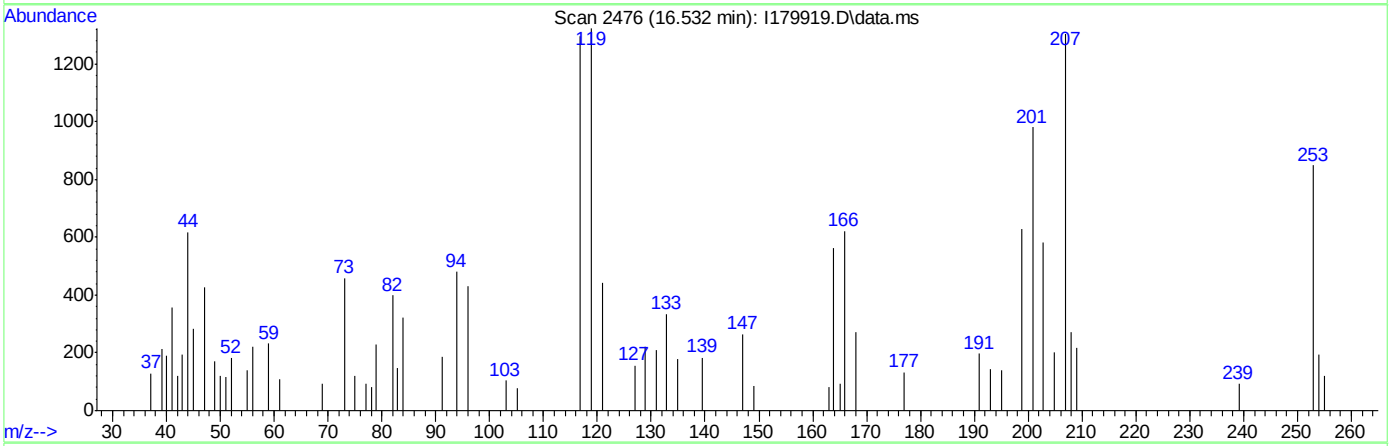
Ion	Exp%	Act%
119.00	100	100
117.00	103.60	96.91
201.00	75.10	68.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179919.D
Acq On : 28 Dec 2012 11:30 am
Operator : SCOTTM
Sample : IC7266-2
Misc : MS40394,VI7266,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 28 13:19:59 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration





TIC: I179919.D\data.ms

(112) hexachloroethane

16.532min (-0.016) 1.73ug/L m

response 2138

Ion	Exp%	Act%
119.00	100	100
117.00	103.60	111.55
201.00	75.10	78.53
0.00	0.00	0.00

ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179920.D
Acq On : 28 Dec 2012 11:58 am
Operator : SCOTTM
Sample : IC7266-5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 28 12:59:33 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	79049	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	164913	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.366	114	249446	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	201767	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.836	152	108745	50.00	ug/L	-0.02

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.503	113	8249	7.96	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 15.92%#			
47) 1,2-dichloroethane-d4...	9.921	65	10286	7.64	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 122		Recovery = 15.28%#			
76) toluene-d8 (s)	12.013	98	29498	6.12	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 12.24%#			
91) 4-bromofluorobenzene (s)	14.675	95	11095	6.31	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 12.62%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.353	59	5491	41.92	ug/L	89
3) iso-butyl alcohol	9.994	74	3324	53.38	ug/L #	34
4) 1,4-dioxane	11.087	88	1473	166.50	ug/L	89
6) chlorodifluoromethane	3.896	51	12217	4.95	ug/L	92
7) dichlorodifluoromethane	3.875	85	13284	5.51	ug/L	98
8) chloromethane	4.215	50	13654	5.64	ug/L	94
9) vinyl chloride	4.461	62	12744	5.58	ug/L	94
10) bromomethane	5.088	94	6158	6.77	ug/L	98
11) chloroethane	5.271	64	5040	5.44	ug/L	92
12) trichlorofluoromethane	5.721	101	12269	7.46	ug/L	92
13) ethyl ether	6.129	74	5161	10.56	ug/L #	77
14) acrolein	6.385	56	15296	131.58	ug/L	97
15) freon 113	6.511	151	6473	7.55	ug/L	89
16) 1,1-dichloroethene	6.542	61	15535	6.24	ug/L	95
17) acetone	6.605	58	782	16.09	ug/L #	75
18) iodomethane	6.825	142	14726	9.00	ug/L #	57
19) carbon disulfide	6.945	76	32978	7.38	ug/L	90
20) methyl acetate	7.065	74	1273	12.89	ug/L #	76
21) allyl chloride	7.071	76	5606	7.90	ug/L #	69
22) acetonitrile	7.071	41	29047	71.53	ug/L	84
23) methylene chloride	7.264	84	9763	9.11	ug/L #	78
24) methyl tert butyl ether	7.594	73	27170	9.84	ug/L	91
25) acrylonitrile	7.599	53	14002	65.56	ug/L	93
26) trans-1,2-dichloroethene	7.635	96	9244	7.60	ug/L	94
27) hexane	7.928	57	14963	7.16	ug/L	92
28) di-isopropyl ether	8.185	45	36617	7.05	ug/L	87
29) vinyl acetate	8.200	65	5972	7.09	ug/L #	66
30) 1,1-dichloroethane	8.205	63	18753	7.08	ug/L	98
31) chloroprene	8.305	53	16814	6.23	ug/L	90
32) ethyl tert-butyl ether	8.645	59	33714	8.50	ug/L	94
33) 2-butanone	8.906	72	776	10.17	ug/L #	93
34) ethyl acetate	8.927	45	1331	11.22	ug/L	48
35) 2,2-dichloropropane	8.938	77	16366	7.07	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179920.D
Acq On : 28 Dec 2012 11:58 am
Operator : SCOTTM
Sample : IC7266-5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 28 12:59:33 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	10375	8.19	ug/L		85
37) methacrylonitrile	9.189	67	3140	13.47	ug/L	#	72
38) propionitrile	9.006	54	10471	121.47	ug/L		96
39) bromochloromethane	9.246	128	4055	10.30	ug/L	#	74
40) tetrahydrofuran	9.293	42	3240	10.38	ug/L		88
41) chloroform	9.304	83	16781	7.82	ug/L		91
42) tert-Butyl Formate	9.330	59	8184	9.18	ug/L	#	82
44) 1,1,1-trichloroethane	9.555	97	14303	6.77	ug/L		96
45) cyclohexane	9.623	84	13453	7.27	ug/L	#	88
48) carbon tetrachloride	9.759	117	11813	7.01	ug/L		96
49) 1,1-dichloropropene	9.733	75	13159	6.60	ug/L		95
50) isopropyl acetate	9.921	61	3315	11.05	ug/L		98
51) benzene	9.994	78	39333	7.69	ug/L		95
52) 2,2,4-trimethylpentane	9.989	57	44158	6.88	ug/L		93
53) tert-amyl methyl ether	10.026	73	28699	9.59	ug/L		91
54) 1,2-dichloroethane	10.015	62	12717	8.10	ug/L		98
55) heptane	10.162	57	8891	7.25	ug/L		95
56) n-butyl alcohol	10.496	56	10293	577.55	ug/L		86
57) trichloroethene	10.716	95	9354	7.50	ug/L		87
58) ethyl acrylate	10.930	55	16428	6.61	ug/L	#	100
59) methyl methacrylate	10.983	69	4966	12.95	ug/L	#	31
60) 1,2-dichloropropane	10.977	63	10160	7.77	ug/L		96
61) methylcyclohexane	10.925	83	16902	7.60	ug/L		89
62) dibromomethane	11.140	93	5049	10.34	ug/L		91
63) bromodichloromethane	11.265	83	11871	8.23	ug/L		97
64) 2-nitropropane	11.495	41	2809	7.05	ug/L	#	79
65) 2-chloroethyl vinyl ether	11.506	63	12313	42.89	ug/L		96
66) epichlorohydrin	11.631	57	3828	70.86	ug/L	#	89
67) cis-1,3-dichloropropene	11.725	75	14971	8.82	ug/L		78
68) 4-methyl-2-pentanone	11.825	58	2672	10.74	ug/L	#	69
69) 3-methyl-1-butanol	11.840	70	3427	246.34	ug/L	#	76
70) toluene	12.086	91	37690	7.73	ug/L		99
71) trans-1,3-dichloropropene	12.285	75	12956	9.68	ug/L		80
72) ethyl methacrylate	12.280	69	8526	10.46	ug/L		81
73) 1,1,2-trichloroethane	12.499	83	5527	10.50	ug/L		91
74) 2-hexanone	12.677	58	2180	10.74	ug/L	#	82
77) tetrachloroethene	12.672	166	8565	7.24	ug/L		92
78) 1,3-dichloropropane	12.683	76	10915	8.33	ug/L		96
79) butyl acetate	12.745	56	4352	9.12	ug/L	#	73
80) 3,3-Dimethyl-1-Butanol	12.839	57	6473	100.62	ug/L		92
81) dibromochloromethane	12.944	129	7244	9.31	ug/L		98
82) 1,2-dibromoethane	13.096	107	6218	10.02	ug/L	#	100
83) chlorobenzene	13.551	112	22058	7.37	ug/L		87
84) 1,1,1,2-tetrachloroethane	13.614	131	7480	7.33	ug/L		94
85) ethylbenzene	13.608	91	39099	6.29	ug/L		94
86) m,p-xylene	13.713	106	29576	13.95	ug/L		95
87) o-xylene	14.131	106	14418	7.33	ug/L		94
88) styrene	14.142	104	23748	7.97	ug/L		92
89) bromoform	14.409	173	4301	10.73	ug/L		97
92) isopropylbenzene	14.471	105	36942	5.45	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179920.D
Acq On : 28 Dec 2012 11:58 am
Operator : SCOTTM
Sample : IC7266-5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 28 12:59:33 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

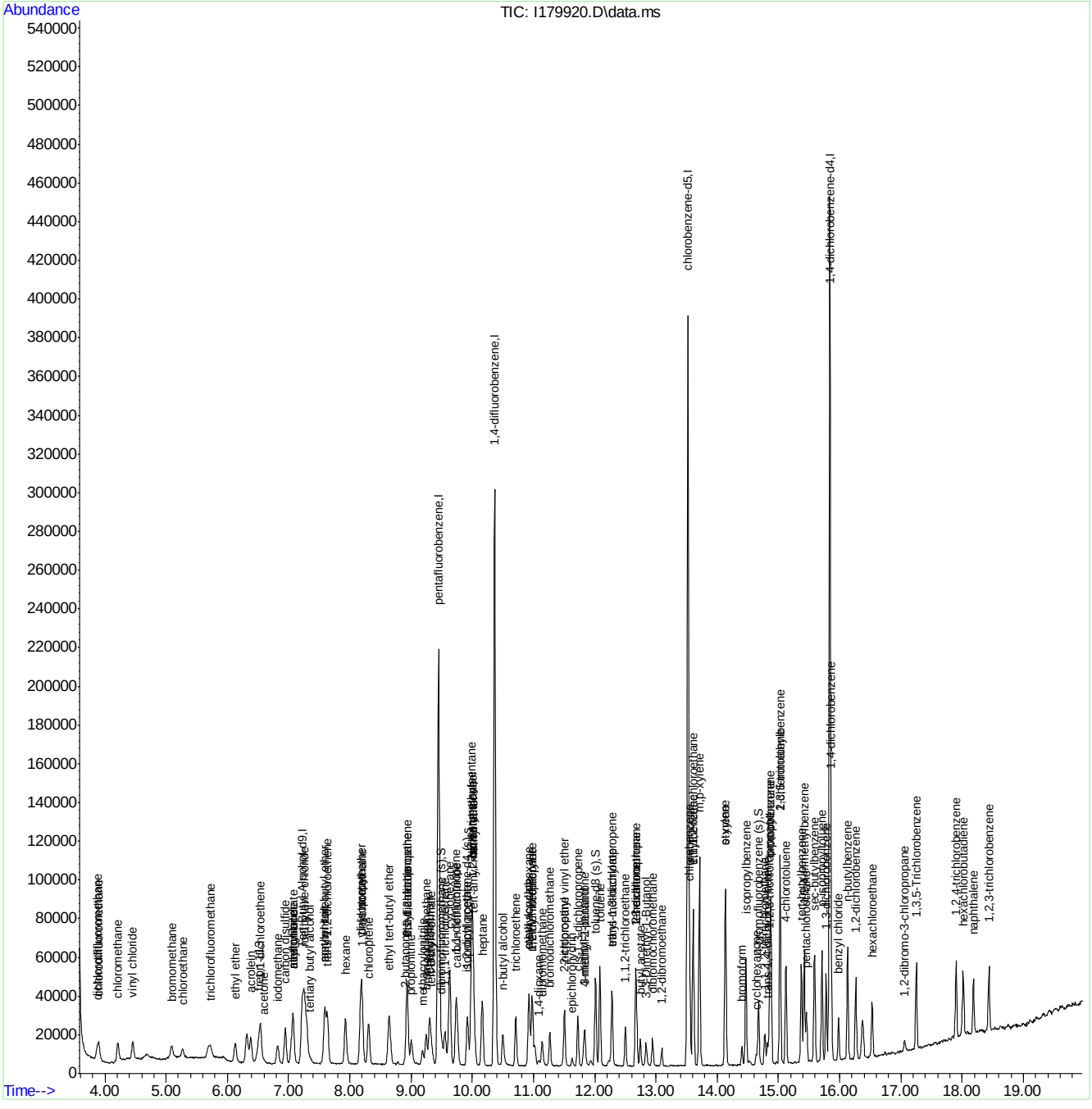
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.639	55	2438	94.93	ug/L	88
94) 1,1,2,2-tetrachloroethane	14.780	83	7840	7.78	ug/L	90
95) trans-1,4-dichloro-2-b...	14.816	53	2568	8.36	ug/L	90
96) 1,2,3-trichloropropane	14.853	110	1714	8.66	ug/L	97
97) n-propylbenzene	14.879	91	44850	5.43	ug/L	95
98) bromobenzene	14.869	156	8774	7.11	ug/L #	89
99) 2-chlorotoluene	15.026	126	8780	6.17	ug/L	93
100) 4-chlorotoluene	15.125	91	28278	6.01	ug/L	94
101) 1,3,5-trimethylbenzene	15.026	105	31422	5.65	ug/L	96
102) tert-butylbenzene	15.376	119	25517	5.64	ug/L	90
103) pentachloroethane	15.460	167	4801	6.48	ug/L	97
104) 1,2,4-trimethylbenzene	15.423	105	31768	5.87	ug/L	96
105) sec-butylbenzene	15.591	105	40221	5.45	ug/L	99
106) p-isopropyltoluene	15.711	119	32975	5.73	ug/l	96
107) benzyl chloride	15.983	91	15375	9.03	ug/L	95
108) 1,3-dichlorobenzene	15.779	146	17584	7.07	ug/L	99
109) 1,4-dichlorobenzene	15.863	146	17497	7.23	ug/L	95
110) 1,2-dichlorobenzene	16.265	146	16415	7.36	ug/L	91
111) n-butylbenzene	16.134	92	18722	5.77	ug/L	89
112) hexachloroethane	16.532	119	6452	5.55	ug/L	96
113) 1,2-dibromo-3-chloropr...	17.060	157	1437	9.97	ug/L	84
114) 1,3,5-Trichlorobenzene	17.254	180	14033	7.35	ug/L	99
115) 1,2,4-trichlorobenzene	17.902	180	11716	8.77	ug/L	98
116) hexachlorobutadiene	18.017	225	7583	6.79	ug/L	93
117) naphthalene	18.185	128	19703	9.18	ug/L	97
118) 1,2,3-trichlorobenzene	18.441	180	10118	9.07	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179920.D
Acq On : 28 Dec 2012 11:58 am
Operator : SCOTTM
Sample : IC7266-5
Misc : MS40394,VI7266,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 28 12:59:33 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179921.D
Acq On : 28 Dec 2012 12:27 pm
Operator : SCOTTM
Sample : IC7266-10
Misc : MS40394,VI7266,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 28 13:00:06 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	67634	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	174702	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.366	114	262663	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	208245	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.842	152	109904	50.00	ug/L	-0.02

System Monitoring Compounds

43) dibromofluoromethane (s)	9.503	113	16552	15.07	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 30.14%#			
47) 1,2-dichloroethane-d4...	9.921	65	20524	14.48	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 122		Recovery = 28.96%#			
76) toluene-d8 (s)	12.013	98	61634	12.39	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 24.78%#			
91) 4-bromofluorobenzene (s)	14.675	95	22171	12.48	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 24.96%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.348	59	9009	80.39	ug/L	92
3) iso-butyl alcohol	9.994	74	6744	126.58	ug/L #	80
4) 1,4-dioxane	11.087	88	2766	365.43	ug/L #	75
6) chlorodifluoromethane	3.901	51	24973	9.54	ug/L	94
7) dichlorodifluoromethane	3.880	85	27628	10.81	ug/L	97
8) chloromethane	4.215	50	29288	11.41	ug/L	97
9) vinyl chloride	4.461	62	27291	11.27	ug/L	96
10) bromomethane	5.088	94	12899	13.38	ug/L	97
11) chloroethane	5.271	64	10867	11.07	ug/L	92
12) trichlorofluoromethane	5.716	101	27083	15.55	ug/L	91
13) ethyl ether	6.129	74	9644	18.63	ug/L	88
14) acrolein	6.380	56	27679	224.76	ug/L	98
15) freon 113	6.516	151	16312	17.96	ug/L	90
16) 1,1-dichloroethene	6.542	61	35489	13.45	ug/L	94
17) acetone	6.600	58	1316	25.56	ug/L #	85
18) iodomethane	6.819	142	31741	18.30	ug/L	93
19) carbon disulfide	6.945	76	73725	15.58	ug/L	89
20) methyl acetate	7.065	74	2387	22.81	ug/L #	88
21) allyl chloride	7.076	76	12183	16.21	ug/L #	57
22) acetonitrile	7.071	41	60101	139.70	ug/L	85
23) methylene chloride	7.264	84	19883	17.51	ug/L #	76
24) methyl tert butyl ether	7.594	73	52298	17.89	ug/L	90
25) acrylonitrile	7.594	53	25310	111.87	ug/L	94
26) trans-1,2-dichloroethene	7.635	96	19889	15.43	ug/L	95
27) hexane	7.934	57	60919	27.53	ug/L	91
28) di-isopropyl ether	8.179	45	75099	13.66	ug/L	91
29) vinyl acetate	8.200	65	13075	14.66	ug/L #	82
30) 1,1-dichloroethane	8.200	63	40373	14.39	ug/L	97
31) chloroprene	8.305	53	36542	12.78	ug/L	89
32) ethyl tert-butyl ether	8.645	59	67380	16.04	ug/L	95
33) 2-butanone	8.912	72	1461	18.08	ug/L #	93
34) ethyl acetate	8.922	45	2184	17.38	ug/L	34
35) 2,2-dichloropropane	8.938	77	35131	14.33	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179921.D
Acq On : 28 Dec 2012 12:27 pm
Operator : SCOTTM
Sample : IC7266-10
Misc : MS40394,VI7266,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 28 13:00:06 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	21726	16.19 ug/L #	85
37) methacrylonitrile	9.189	67	5856	23.71 ug/L #	68
38) propionitrile	9.006	54	18768	205.52 ug/L	98
39) bromochloromethane	9.246	128	8187	19.63 ug/L #	78
40) tetrahydrofuran	9.288	42	5782	17.48 ug/L	87
41) chloroform	9.304	83	35830	15.77 ug/L	90
42) tert-Butyl Formate	9.335	59	15771	16.70 ug/L #	85
44) 1,1,1-trichloroethane	9.555	97	32127	14.35 ug/L	94
45) cyclohexane	9.623	84	32078	16.35 ug/L #	85
48) carbon tetrachloride	9.759	117	27541	15.51 ug/L	98
49) 1,1-dichloropropene	9.733	75	31895	15.20 ug/L	93
50) isopropyl acetate	9.916	61	5964	18.88 ug/L	94
51) benzene	9.994	78	82047	15.23 ug/L	96
52) 2,2,4-trimethylpentane	9.989	57	163666	24.21 ug/L	89
53) tert-amyl methyl ether	10.026	73	56008	17.78 ug/L	96
54) 1,2-dichloroethane	10.010	62	25658	15.51 ug/L	98
55) heptane	10.162	57	43646	33.80 ug/L	93
56) n-butyl alcohol	10.496	56	17480	931.46 ug/L	84
57) trichloroethene	10.711	95	21235	16.17 ug/L	91
58) ethyl acrylate	10.930	55	41782	15.96 ug/L	100
59) methyl methacrylate	10.983	69	9274	22.96 ug/L #	34
60) 1,2-dichloropropane	10.978	63	21462	15.59 ug/L	98
61) methylcyclohexane	10.925	83	43770	18.68 ug/L	89
62) dibromomethane	11.140	93	10006	19.46 ug/L	91
63) bromodichloromethane	11.270	83	24570	16.17 ug/L	99
64) 2-nitropropane	11.485	41	4887	11.64 ug/L #	79
65) 2-chloroethyl vinyl ether	11.506	63	21068	69.69 ug/L	96
66) epichlorohydrin	11.631	57	6309	110.92 ug/L #	90
67) cis-1,3-dichloropropene	11.725	75	30884	17.29 ug/L	78
68) 4-methyl-2-pentanone	11.820	58	4841	18.47 ug/L #	69
69) 3-methyl-1-butanol	11.841	70	5781	378.56 ug/L #	76
70) toluene	12.086	91	82750	16.12 ug/L	98
71) trans-1,3-dichloropropene	12.285	75	25672	18.21 ug/L	78
72) ethyl methacrylate	12.275	69	16601	19.34 ug/L	78
73) 1,1,2-trichloroethane	12.500	83	11146	20.11 ug/L	93
74) 2-hexanone	12.672	58	4017	18.80 ug/L	86
77) tetrachloroethene	12.672	166	22111	18.10 ug/L	93
78) 1,3-dichloropropane	12.683	76	21871	16.17 ug/L	95
79) butyl acetate	12.745	56	7753	15.75 ug/L #	82
80) 3,3-Dimethyl-1-Butanol	12.839	57	10279	154.81 ug/L	93
81) dibromochloromethane	12.944	129	14642	18.24 ug/L	99
82) 1,2-dibromoethane	13.096	107	12229	19.10 ug/L	98
83) chlorobenzene	13.551	112	47856	15.49 ug/L	92
84) 1,1,1,2-tetrachloroethane	13.614	131	16051	15.25 ug/L	95
85) ethylbenzene	13.608	91	90365	14.09 ug/L	94
86) m,p-xylene	13.713	106	68930	31.50 ug/L	97
87) o-xylene	14.131	106	31980	15.74 ug/L	92
88) styrene	14.142	104	51478	16.73 ug/L	97
89) bromoform	14.409	173	8295	20.05 ug/L	99
92) isopropylbenzene	14.466	105	85886	12.55 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179921.D
Acq On : 28 Dec 2012 12:27 pm
Operator : SCOTTM
Sample : IC7266-10
Misc : MS40394,VI7266,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 28 13:00:06 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cyclohexanone	14.639	55	3855	126.46 ug/L	93
94) 1,1,2,2-tetrachloroethane	14.780	83	15205	14.93 ug/L	98
95) trans-1,4-dichloro-2-b...	14.817	53	4433	14.28 ug/L	92
96) 1,2,3-trichloropropane	14.853	110	3318	16.59 ug/L	99
97) n-propylbenzene	14.879	91	109821	13.15 ug/L	94
98) bromobenzene	14.869	156	18620	14.94 ug/L #	87
99) 2-chlorotoluene	15.026	126	20360	14.16 ug/L	87
100) 4-chlorotoluene	15.125	91	65475	13.76 ug/L	93
101) 1,3,5-trimethylbenzene	15.026	105	75097	13.36 ug/L	97
102) tert-butylbenzene	15.376	119	58550	12.82 ug/L	92
103) pentachloroethane	15.460	167	9986	13.34 ug/L	95
104) 1,2,4-trimethylbenzene	15.423	105	74440	13.61 ug/L	98
105) sec-butylbenzene	15.591	105	98735	13.25 ug/L	99
106) p-isopropyltoluene	15.711	119	84727	14.56 ug/l	97
107) benzyl chloride	15.983	91	26317	15.30 ug/L	95
108) 1,3-dichlorobenzene	15.779	146	40241	16.00 ug/L	96
109) 1,4-dichlorobenzene	15.863	146	39877	16.30 ug/L	98
110) 1,2-dichlorobenzene	16.265	146	35232	15.63 ug/L	96
111) n-butylbenzene	16.129	92	53692	16.38 ug/L	92
112) hexachloroethane	16.532	119	13900	11.82 ug/L	96
113) 1,2-dibromo-3-chloropr...	17.060	157	2569	17.64 ug/L	84
114) 1,3,5-Trichlorobenzene	17.249	180	36826	19.08 ug/L	99
115) 1,2,4-trichlorobenzene	17.902	180	28018	20.74 ug/L	96
116) hexachlorobutadiene	18.017	225	21271	18.83 ug/L	96
117) naphthalene	18.185	128	39100	18.03 ug/L	94
118) 1,2,3-trichlorobenzene	18.441	180	22200	19.68 ug/L	99

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

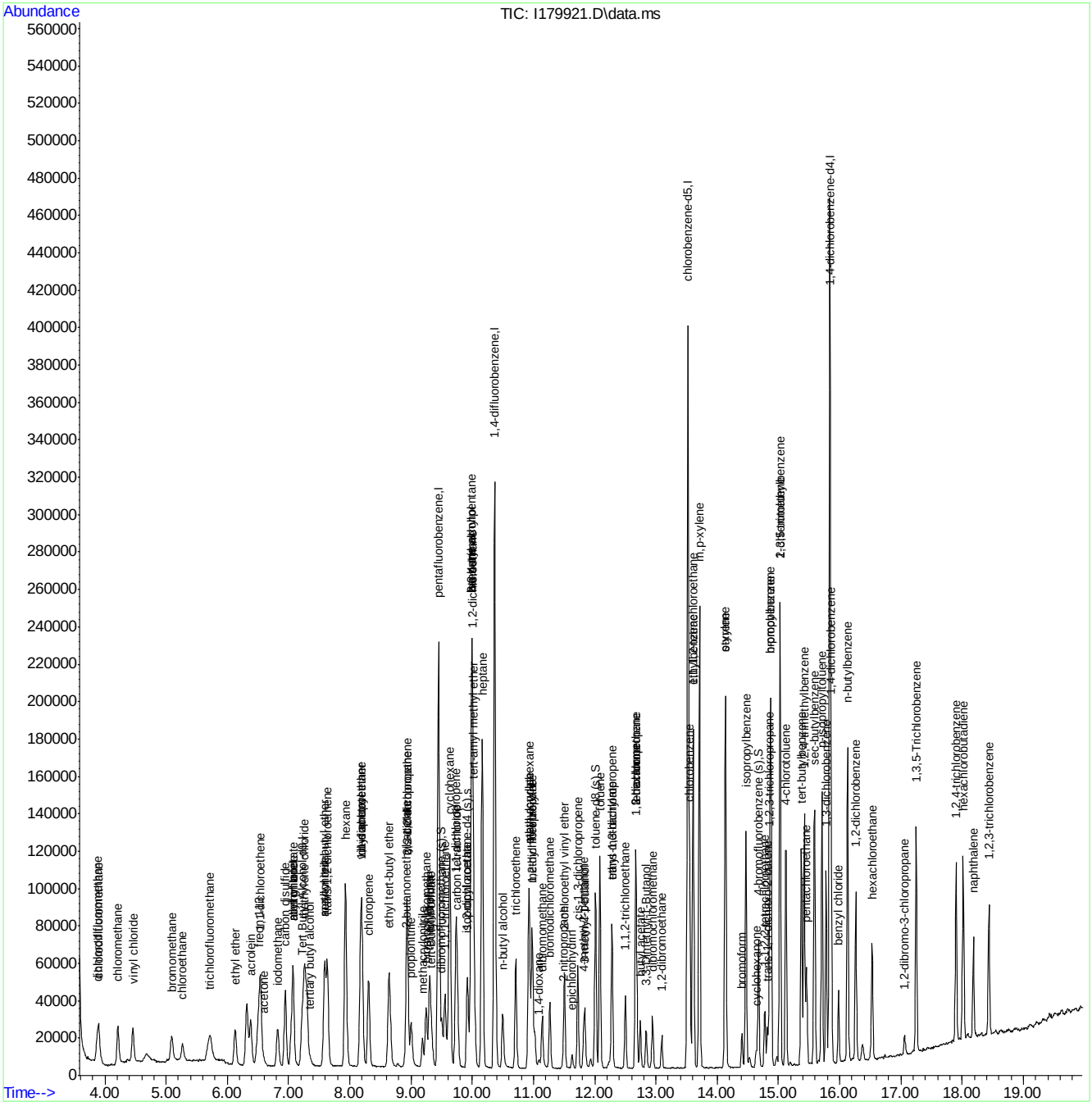
7.7.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179921.D
Acq On : 28 Dec 2012 12:27 pm
Operator : SCOTTM
Sample : IC7266-10
Misc : MS40394,VI7266,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 28 13:00:06 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179922.D
Acq On : 28 Dec 2012 12:56 pm
Operator : SCOTTM
Sample : IC7266-20
Misc : MS40394,VI7266,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 28 14:20:57 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	78355	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	177638	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.365	114	272281	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	217117	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.841	152	117167	50.00	ug/L	-0.02

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.502	113	33908	30.37	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 60.74%#			
47) 1,2-dichloroethane-d4...	9.921	65	41329	28.13	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 122		Recovery = 56.26%#			
76) toluene-d8 (s)	12.013	98	127165	24.53	ug/L	-0.02
Spiked Amount 50.000	Range 81 - 127		Recovery = 49.06%#			
91) 4-bromofluorobenzene (s)	14.675	95	44724	23.61	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 47.22%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.342	59	18553	142.91	ug/L	87
3) iso-butyl alcohol	9.994	74	12774	206.96	ug/L #	37
4) 1,4-dioxane	11.092	88	5974	681.26	ug/L #	73
6) chlorodifluoromethane	3.890	51	49556	18.62	ug/L	92
7) dichlorodifluoromethane	3.869	85	53471	20.58	ug/L	98
8) chloromethane	4.204	50	53669	20.56	ug/L	98
9) vinyl chloride	4.455	62	50547	20.53	ug/L	96
10) bromomethane	5.088	94	21956	22.40	ug/L	97
11) chloroethane	5.261	64	20004	20.04	ug/L	93
12) trichlorofluoromethane	5.710	101	51168	28.90	ug/L	98
13) ethyl ether	6.129	74	18687	35.50	ug/L #	83
14) acrolein	6.380	56	56455	450.85	ug/L	100
15) freon 113	6.505	151	26225	28.40	ug/L	90
16) 1,1-dichloroethene	6.537	61	64934	24.20	ug/L	95
17) acetone	6.600	58	2530	48.33	ug/L #	66
18) iodomethane	6.819	142	59891	33.97	ug/L	94
19) carbon disulfide	6.940	76	136567	28.38	ug/L	89
20) methyl acetate	7.060	74	4724	44.40	ug/L #	82
21) allyl chloride	7.070	76	22856	29.92	ug/L #	62
22) acetonitrile	7.070	41	114996	262.89	ug/L	87
23) methylene chloride	7.259	84	37890	32.81	ug/L #	79
24) methyl tert butyl ether	7.588	73	104114	35.02	ug/L	91
25) acrylonitrile	7.588	53	50919	221.33	ug/L	96
26) trans-1,2-dichloroethene	7.630	96	36566	27.90	ug/L	93
27) hexane	7.928	57	58139	25.84	ug/L	92
28) di-isopropyl ether	8.179	45	146803	26.25	ug/L	82
29) vinyl acetate	8.195	65	24015	26.48	ug/L #	75
30) 1,1-dichloroethane	8.200	63	76064	26.67	ug/L	98
31) chloroprene	8.305	53	67949	23.36	ug/L	90
32) ethyl tert-butyl ether	8.645	59	133501	31.25	ug/L	94
33) 2-butanone	8.911	72	3054	37.17	ug/L #	95
34) ethyl acetate	8.917	45	4352	34.07	ug/L #	3
35) 2,2-dichloropropane	8.938	77	65736	26.38	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179922.D
Acq On : 28 Dec 2012 12:56 pm
Operator : SCOTTM
Sample : IC7266-20
Misc : MS40394,VI7266,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 28 14:20:57 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.932	96	39770	29.14 ug/L	89
37) methacrylonitrile	9.189	67	11517	45.86 ug/L #	71
38) propionitrile	9.000	54	38425	413.83 ug/L	95
39) bromochloromethane	9.246	128	16042	37.84 ug/L #	75
40) tetrahydrofuran	9.288	42	11180	33.25 ug/L	86
41) chloroform	9.304	83	68095	29.47 ug/L	92
42) tert-Butyl Formate	9.335	59	32640	34.00 ug/L #	86
44) 1,1,1-trichloroethane	9.555	97	61058	26.83 ug/L	93
45) cyclohexane	9.623	84	57365	28.76 ug/L #	90
48) carbon tetrachloride	9.759	117	50326	27.34 ug/L	99
49) 1,1-dichloropropene	9.733	75	55103	25.34 ug/L	94
50) isopropyl acetate	9.916	61	12196	37.25 ug/L	96
51) benzene	9.994	78	154997	27.75 ug/L	97
52) 2,2,4-trimethylpentane	9.989	57	178013	25.40 ug/L	92
53) tert-amyl methyl ether	10.025	73	110439	33.81 ug/L	90
54) 1,2-dichloroethane	10.010	62	49905	29.11 ug/L	99
55) heptane	10.161	57	33842	25.28 ug/L	94
56) n-butyl alcohol	10.491	56	38138	1960.48 ug/L	85
57) trichloroethene	10.711	95	37894	27.83 ug/L	88
58) ethyl acrylate	10.925	55	66188	24.39 ug/L	100
59) methyl methacrylate	10.977	69	19344	46.20 ug/L #	32
60) 1,2-dichloropropane	10.977	63	40860	28.64 ug/L	95
61) methylcyclohexane	10.925	83	67685	27.87 ug/L	90
62) dibromomethane	11.139	93	19400	36.39 ug/L	93
63) bromodichloromethane	11.265	83	47934	30.43 ug/L	99
64) 2-nitropropane	11.485	41	9816	22.56 ug/L #	86
65) 2-chloroethyl vinyl ether	11.506	63	45029	143.69 ug/L	97
66) epichlorohydrin	11.631	57	12984	220.20 ug/L	91
67) cis-1,3-dichloropropene	11.725	75	59964	32.38 ug/L	77
68) 4-methyl-2-pentanone	11.819	58	10170	37.44 ug/L #	67
69) 3-methyl-1-butanol	11.840	70	12366	752.76 ug/L #	77
70) toluene	12.086	91	150861	28.36 ug/L	99
71) trans-1,3-dichloropropene	12.285	75	50480	34.55 ug/L	77
72) ethyl methacrylate	12.274	69	34084	38.30 ug/L	83
73) 1,1,2-trichloroethane	12.499	83	21794	37.93 ug/L	88
74) 2-hexanone	12.672	58	8085	36.49 ug/L	96
77) tetrachloroethene	12.672	166	35807	28.12 ug/L	92
78) 1,3-dichloropropane	12.682	76	42672	30.26 ug/L	95
79) butyl acetate	12.745	56	15492	30.18 ug/L #	83
80) 3,3-Dimethyl-1-Butanol	12.839	57	22182	320.43 ug/L	95
81) dibromochloromethane	12.944	129	28972	34.61 ug/L	99
82) 1,2-dibromoethane	13.096	107	24245	36.32 ug/L	99
83) chlorobenzene	13.551	112	88319	27.41 ug/L	92
84) 1,1,1,2-tetrachloroethane	13.613	131	30629	27.90 ug/L	97
85) ethylbenzene	13.608	91	158581	23.72 ug/L	94
86) m,p-xylene	13.713	106	120087	52.64 ug/L	95
87) o-xylene	14.131	106	58397	27.58 ug/L	94
88) styrene	14.142	104	95065	29.64 ug/L	94
89) bromoform	14.408	173	16808	38.97 ug/L	95
92) isopropylbenzene	14.466	105	150321	20.60 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179922.D
Acq On : 28 Dec 2012 12:56 pm
Operator : SCOTTM
Sample : IC7266-20
Misc : MS40394,VI7266,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 28 14:20:57 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cyclohexanone	14.639	55	8278	216.11 ug/L	92
94) 1,1,2,2-tetrachloroethane	14.780	83	30247	27.85 ug/L	96
95) trans-1,4-dichloro-2-b...	14.822	53	9054	27.36 ug/L	85
96) 1,2,3-trichloropropane	14.853	110	6603	30.97 ug/L	97
97) n-propylbenzene	14.879	91	180562	20.27 ug/L	94
98) bromobenzene	14.869	156	34796	26.19 ug/L #	85
99) 2-chlorotoluene	15.026	126	35375	23.08 ug/L #	84
100) 4-chlorotoluene	15.120	91	110812	21.84 ug/L	94
101) 1,3,5-trimethylbenzene	15.026	105	128663	21.47 ug/L	97
102) tert-butylbenzene	15.376	119	105894	21.74 ug/L	90
103) pentachloroethane	15.460	167	20022	25.09 ug/L	98
104) 1,2,4-trimethylbenzene	15.423	105	127992	21.95 ug/L	97
105) sec-butylbenzene	15.590	105	166465	20.95 ug/L	98
106) p-isopropyltoluene	15.711	119	134734	21.71 ug/l	97
107) benzyl chloride	15.983	91	54938	29.96 ug/L	94
108) 1,3-dichlorobenzene	15.779	146	69238	25.83 ug/L	97
109) 1,4-dichlorobenzene	15.862	146	69699	26.72 ug/L	99
110) 1,2-dichlorobenzene	16.265	146	64727	26.93 ug/L	96
111) n-butylbenzene	16.129	92	76415	21.86 ug/L	91
112) hexachloroethane	16.527	119	26487	21.13 ug/L	96
113) 1,2-dibromo-3-chloropr...	17.060	157	5475	35.27 ug/L	88
114) 1,3,5-Trichlorobenzene	17.248	180	57139	27.77 ug/L	98
115) 1,2,4-trichlorobenzene	17.902	180	48257	33.51 ug/L	99
116) hexachlorobutadiene	18.017	225	31393	26.07 ug/L	95
117) naphthalene	18.185	128	80989	35.03 ug/L	97
118) 1,2,3-trichlorobenzene	18.441	180	41306	34.36 ug/L	97

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

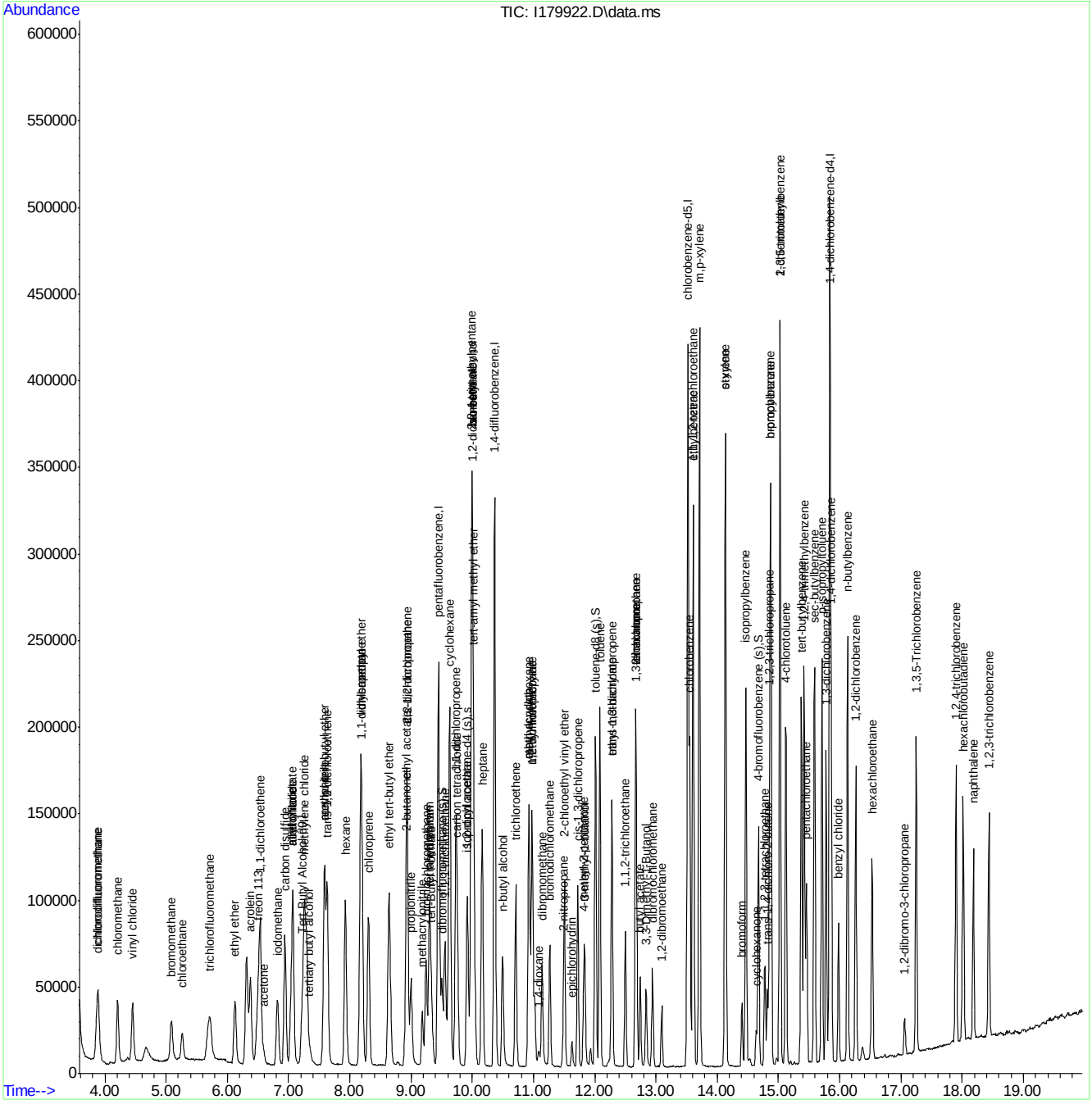
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179922.D
Acq On : 28 Dec 2012 12:56 pm
Operator : SCOTTM
Sample : IC7266-20
Misc : MS40394,VI7266,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 28 14:20:57 2012
Quant Method : C:\msdchem\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179923.D
Acq On : 28 Dec 2012 1:25 pm
Operator : SCOTTM
Sample : ICC7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 28 13:48:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.228	65	80496	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	167534	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.366	114	254020	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.520	117	205208	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.842	152	111493	50.00	ug/L	-0.02

System Monitoring Compounds

43) dibromofluoromethane (s)	9.503	113	84449	80.20	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 160.40%#			
47) 1,2-dichloroethane-d4...	9.921	65	103457	75.47	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 122		Recovery = 150.94%#			
76) toluene-d8 (s)	12.013	98	310300	63.32	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 126.64%			
91) 4-bromofluorobenzene (s)	14.675	95	113489	62.95	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 125.90%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.343	59	49170	368.67	ug/L	87
3) iso-butyl alcohol	10.000	74	31415	495.43	ug/L #	30
4) 1,4-dioxane	11.087	88	16062	1782.96	ug/L	83
6) chlorodifluoromethane	3.901	51	117569	46.84	ug/L	93
7) dichlorodifluoromethane	3.875	85	135556	55.32	ug/L	100
8) chloromethane	4.220	50	134042	54.46	ug/L	97
9) vinyl chloride	4.461	62	125649	54.12	ug/L	96
10) bromomethane	5.094	94	55020	59.53	ug/L	98
11) chloroethane	5.271	64	49696	52.78	ug/L	96
12) trichlorofluoromethane	5.716	101	129626	77.62	ug/L	96
13) ethyl ether	6.129	74	47593	95.86	ug/L	86
14) acrolein	6.380	56	148256	1255.37	ug/L	100
15) freon 113	6.511	151	61346	70.45	ug/L	90
16) 1,1-dichloroethene	6.542	61	158677	62.71	ug/L	94
17) acetone	6.605	58	6327	128.16	ug/L #	69
18) iodomethane	6.825	142	148538	89.32	ug/L	94
19) carbon disulfide	6.945	76	335474	73.91	ug/L	89
20) methyl acetate	7.060	74	11836	117.96	ug/L #	88
21) allyl chloride	7.071	76	56149	77.93	ug/L #	64
22) acetonitrile	7.071	41	287435	696.73	ug/L	87
23) methylene chloride	7.264	84	92962	85.37	ug/L #	79
24) methyl tert butyl ether	7.594	73	269904	96.25	ug/L	89
25) acrylonitrile	7.588	53	133158	613.72	ug/L	96
26) trans-1,2-dichloroethene	7.635	96	88940	71.95	ug/L	91
27) hexane	7.928	57	132186	62.29	ug/L	93
28) di-isopropyl ether	8.179	45	358485	67.98	ug/L	79
29) vinyl acetate	8.200	65	59552	69.62	ug/L #	79
30) 1,1-dichloroethane	8.200	63	187092	69.55	ug/L	98
31) chloroprene	8.305	53	158021	57.61	ug/L	89
32) ethyl tert-butyl ether	8.645	59	329469	81.76	ug/L	93
33) 2-butanone	8.901	72	8199	105.81	ug/L	85
34) ethyl acetate	8.922	45	11209	93.03	ug/L	33
35) 2,2-dichloropropane	8.938	77	159717	67.96	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179923.D
Acq On : 28 Dec 2012 1:25 pm
Operator : SCOTTM
Sample : ICC7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 28 13:48:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.938	96	98903	76.84	ug/L	#	85
37) methacrylonitrile	9.184	67	29916	126.31	ug/L	#	71
38) propionitrile	9.001	54	102327	1168.50	ug/L		96
39) bromochloromethane	9.246	128	41126	102.85	ug/L	#	75
40) tetrahydrofuran	9.283	42	29655	93.51	ug/L		86
41) chloroform	9.304	83	168457	77.30	ug/L		92
42) tert-Butyl Formate	9.335	59	82303	90.90	ug/L		98
44) 1,1,1-trichloroethane	9.555	97	149263	69.54	ug/L		93
45) cyclohexane	9.628	84	140608	74.75	ug/L		88
48) carbon tetrachloride	9.759	117	124157	72.31	ug/L		97
49) 1,1-dichloropropene	9.733	75	133882	65.99	ug/L		94
50) isopropyl acetate	9.916	61	31541	103.27	ug/L		97
51) benzene	9.994	78	376939	72.34	ug/L		96
52) 2,2,4-trimethylpentane	9.994	57	415789	63.60	ug/L		92
53) tert-amyl methyl ether	10.026	73	275074	90.27	ug/L		90
54) 1,2-dichloroethane	10.010	62	125670	78.56	ug/L		98
55) heptane	10.162	57	77987	62.44	ug/L		93
56) n-butyl alcohol	10.491	56	105837	5831.64	ug/L		83
57) trichloroethene	10.711	95	92749	73.02	ug/L		87
58) ethyl acrylate	10.931	55	153071	60.47	ug/L		100
59) methyl methacrylate	10.978	69	50982	130.53	ug/L	#	29
60) 1,2-dichloropropane	10.978	63	101294	76.10	ug/L		96
61) methylcyclohexane	10.931	83	158893	70.13	ug/L		89
62) dibromomethane	11.140	93	49674	99.89	ug/L		91
63) bromodichloromethane	11.265	83	120864	82.25	ug/L		98
64) 2-nitropropane	11.485	41	25620	63.11	ug/L	#	85
65) 2-chloroethyl vinyl ether	11.506	63	114857	392.86	ug/L		96
66) epichlorohydrin	11.626	57	32695	594.35	ug/L		93
67) cis-1,3-dichloropropene	11.726	75	152413	88.22	ug/L		77
68) 4-methyl-2-pentanone	11.820	58	26977	106.45	ug/L	#	70
69) 3-methyl-1-butanol	11.835	70	34656	2207.77	ug/L	#	75
70) toluene	12.086	91	368576	74.26	ug/L		98
71) trans-1,3-dichloropropene	12.285	75	129475	94.98	ug/L		77
72) ethyl methacrylate	12.275	69	90842	109.41	ug/L		83
73) 1,1,2-trichloroethane	12.500	83	56651	105.70	ug/L		91
74) 2-hexanone	12.667	58	21868	105.80	ug/L		94
77) tetrachloroethene	12.672	166	87261	72.50	ug/L		91
78) 1,3-dichloropropane	12.683	76	110449	82.86	ug/L		97
79) butyl acetate	12.740	56	39807	82.05	ug/L	#	84
80) 3,3-Dimethyl-1-Butanol	12.840	57	59188	904.63	ug/L		95
81) dibromochloromethane	12.944	129	76650	96.88	ug/L		99
82) 1,2-dibromoethane	13.096	107	63215	100.18	ug/L		99
83) chlorobenzene	13.551	112	219564	72.10	ug/L		92
84) 1,1,1,2-tetrachloroethane	13.614	131	77619	74.82	ug/L		94
85) ethylbenzene	13.608	91	389895	61.71	ug/L		95
86) m,p-xylene	13.713	106	295223	136.92	ug/L		95
87) o-xylene	14.131	106	144296	72.09	ug/L		92
88) styrene	14.142	104	240310	79.26	ug/L		95
89) bromoform	14.409	173	46026	112.92	ug/L		98
92) isopropylbenzene	14.471	105	371774	53.54	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179923.D
Acq On : 28 Dec 2012 1:25 pm
Operator : SCOTTM
Sample : ICC7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 28 13:48:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.639	55	18167	456.15	ug/L	90
94) 1,1,2,2-tetrachloroethane	14.780	83	80361	77.77	ug/L	96
95) trans-1,4-dichloro-2-b...	14.822	53	23547	74.78	ug/L #	73
96) 1,2,3-trichloropropane	14.853	110	17672	87.10	ug/L	98
97) n-propylbenzene	14.879	91	441152	52.05	ug/L	92
98) bromobenzene	14.869	156	89421	70.72	ug/L #	83
99) 2-chlorotoluene	15.026	126	87694	60.13	ug/L	88
100) 4-chlorotoluene	15.120	91	278648	57.72	ug/L	94
101) 1,3,5-trimethylbenzene	15.026	105	316445	55.50	ug/L	97
102) tert-butylbenzene	15.376	119	260142	56.13	ug/L	91
103) pentachloroethane	15.460	167	53142	69.99	ug/L	93
104) 1,2,4-trimethylbenzene	15.423	105	318046	57.31	ug/L	97
105) sec-butylbenzene	15.591	105	404972	53.55	ug/L	99
106) p-isopropyltoluene	15.711	119	333260	56.44	ug/l	96
107) benzyl chloride	15.983	91	147192	84.35	ug/L	94
108) 1,3-dichlorobenzene	15.779	146	175527	68.82	ug/L	98
109) 1,4-dichlorobenzene	15.863	146	177441	71.49	ug/L	98
110) 1,2-dichlorobenzene	16.265	146	164341	71.86	ug/L	96
111) n-butylbenzene	16.129	92	187867	56.48	ug/L	92
112) hexachloroethane	16.527	119	67153	56.31	ug/L	96
113) 1,2-dibromo-3-chloropr...	17.060	157	14722	99.67	ug/L	85
114) 1,3,5-Trichlorobenzene	17.254	180	145379	74.25	ug/L	98
115) 1,2,4-trichlorobenzene	17.902	180	125070	91.27	ug/L	98
116) hexachlorobutadiene	18.023	225	77046	67.25	ug/L	98
117) naphthalene	18.185	128	214391	97.45	ug/L	96
118) 1,2,3-trichlorobenzene	18.441	180	107654	94.09	ug/L	99

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

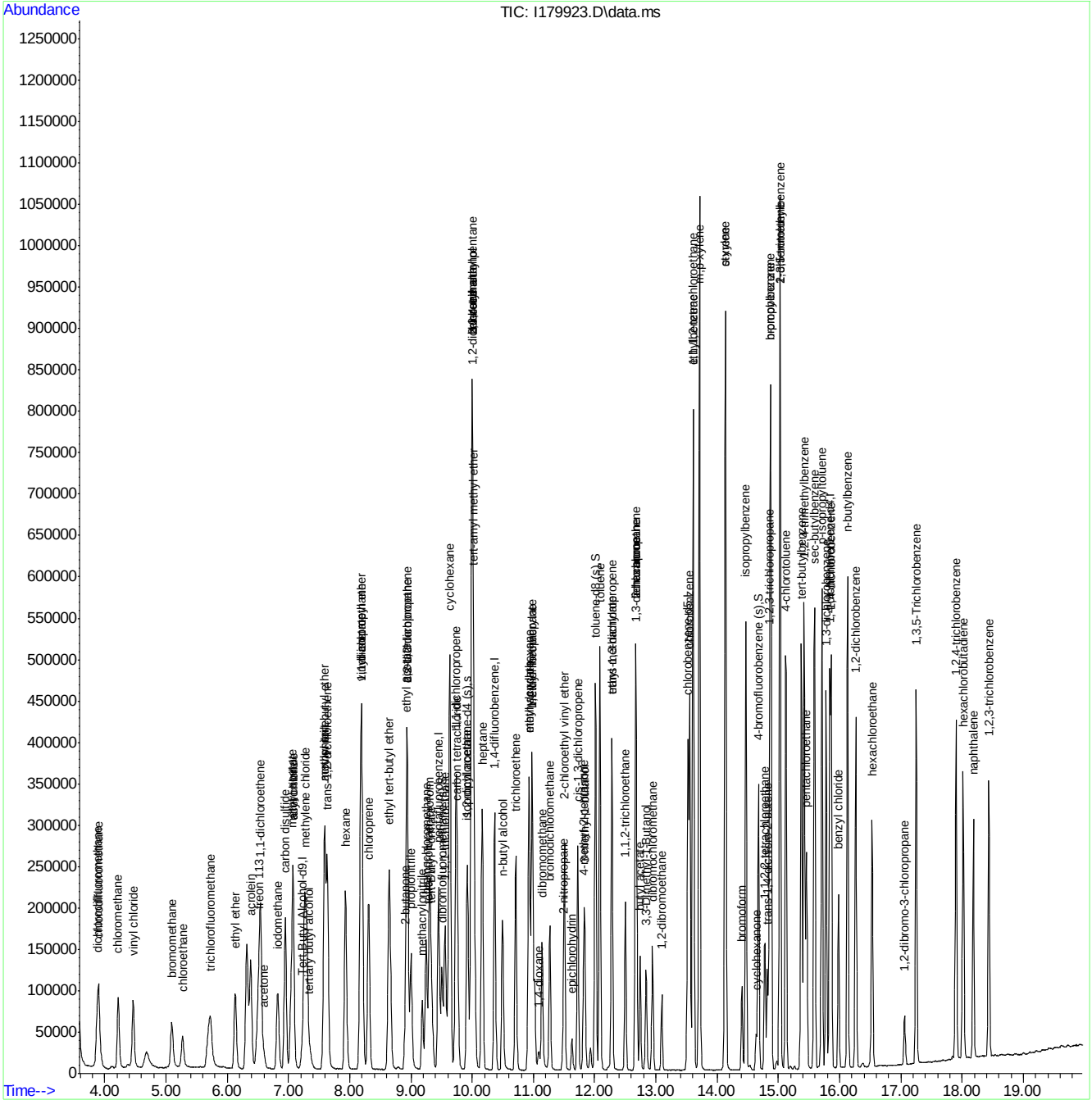
7.7.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179923.D
Acq On : 28 Dec 2012 1:25 pm
Operator : SCOTTM
Sample : ICC7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 28 13:48:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



MI7266.M Mon Dec 31 10:50:19 2012 RPT1 Page: 4

ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179924.D
Acq On : 28 Dec 2012 1:53 pm
Operator : SCOTTM
Sample : IC7266-100
Misc : MS40394,VI7266,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 28 14:16:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.227	65	75518	50.00	ug/L	-0.02
5) pentafluorobenzene	9.450	168	170501	50.00	ug/L	-0.01
46) 1,4-difluorobenzene	10.366	114	255367	50.00	ug/L	-0.02
75) chlorobenzene-d5	13.519	117	203119	50.00	ug/L	-0.02
90) 1,4-dichlorobenzene-d4	15.836	152	110615	50.00	ug/L	-0.02

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.503	113	167205	156.03	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 312.06%#			
47) 1,2-dichloroethane-d4...	9.921	65	200216	145.28	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 122		Recovery = 290.56%#			
76) toluene-d8 (s)	12.013	98	619969	127.82	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 255.64%#			
91) 4-bromofluorobenzene (s)	14.675	95	221952	124.09	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 132		Recovery = 248.18%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.343	59	90255	721.34	ug/L	84
3) iso-butyl alcohol	9.999	74	60520	1017.34	ug/L #	39
4) 1,4-dioxane	11.087	88	31091	3678.75	ug/L #	80
6) chlorodifluoromethane	3.891	51	250698	98.15	ug/L	94
7) dichlorodifluoromethane	3.870	85	276423	110.85	ug/L	99
8) chloromethane	4.215	50	268200	107.07	ug/L	98
9) vinyl chloride	4.461	62	256718	108.66	ug/L	96
10) bromomethane	5.088	94	110220	117.18	ug/L	97
11) chloroethane	5.266	64	99159	103.48	ug/L	95
12) trichlorofluoromethane	5.716	101	266876	157.02	ug/L	96
13) ethyl ether	6.124	74	89670	177.47	ug/L	88
14) acrolein	6.375	56	267010	2221.59	ug/L	99
15) freon 113	6.506	151	129316	145.92	ug/L	89
16) 1,1-dichloroethene	6.537	61	320077	124.29	ug/L	93
17) acetone	6.595	58	11623	231.34	ug/L #	79
18) iodomethane	6.820	142	293717	173.55	ug/L	94
19) carbon disulfide	6.940	76	666652	144.32	ug/L	89
20) methyl acetate	7.055	74	22606	221.37	ug/L #	89
21) allyl chloride	7.071	76	110381	150.53	ug/L #	61
22) acetonitrile	7.071	41	559326	1332.18	ug/L	88
23) methylene chloride	7.259	84	181175	163.48	ug/L #	77
24) methyl tert butyl ether	7.588	73	507831	177.95	ug/L	88
25) acrylonitrile	7.583	53	242566	1098.52	ug/L	96
26) trans-1,2-dichloroethene	7.630	96	177622	141.18	ug/L	91
27) hexane	7.928	57	277381	128.44	ug/L	93
28) di-isopropyl ether	8.179	45	708024	131.92	ug/L	75
29) vinyl acetate	8.200	65	117155	134.58	ug/L #	80
30) 1,1-dichloroethane	8.200	63	365286	133.43	ug/L	98
31) chloroprene	8.305	53	329376	117.99	ug/L	89
32) ethyl tert-butyl ether	8.645	59	652366	159.07	ug/L	94
33) 2-butanone	8.901	72	15424	195.59	ug/L	79
34) ethyl acetate	8.917	45	20888	170.35	ug/L #	8
35) 2,2-dichloropropane	8.933	77	317739	132.84	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179924.D
Acq On : 28 Dec 2012 1:53 pm
Operator : SCOTTM
Sample : IC7266-100
Misc : MS40394,VI7266,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 28 14:16:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.933	96	191177	145.95 ug/L #	84
37) methacrylonitrile	9.184	67	55219	229.08 ug/L #	72
38) propionitrile	9.001	54	187504	2103.90 ug/L	96
39) bromochloromethane	9.246	128	79405	195.12 ug/L #	70
40) tetrahydrofuran	9.283	42	53599	166.07 ug/L	84
41) chloroform	9.304	83	328546	148.13 ug/L	92
42) tert-Butyl Formate	9.335	59	161667	175.44 ug/L #	85
44) 1,1,1-trichloroethane	9.555	97	299847	137.27 ug/L	93
45) cyclohexane	9.628	84	284425	148.57 ug/L #	86
48) carbon tetrachloride	9.754	117	253953	147.12 ug/L	98
49) 1,1-dichloropropene	9.728	75	271788	133.26 ug/L	95
50) isopropyl acetate	9.916	61	60523	197.12 ug/L	97
51) benzene	9.994	78	738845	141.05 ug/L	96
52) 2,2,4-trimethylpentane	9.994	57	857846	130.52 ug/L	92
53) tert-amyl methyl ether	10.026	73	538129	175.67 ug/L	90
54) 1,2-dichloroethane	10.010	62	236919	147.33 ug/L	97
55) heptane	10.162	57	164940	131.37 ug/L	94
56) n-butyl alcohol	10.491	56	199401	10929.08 ug/L	84
57) trichloroethene	10.711	95	185871	145.56 ug/L	87
58) ethyl acrylate	10.925	55	316110	124.21 ug/L	100
59) methyl methacrylate	10.978	69	94160	239.80 ug/L #	30
60) 1,2-dichloropropane	10.978	63	196725	147.02 ug/L	96
61) methylcyclohexane	10.930	83	330698	145.19 ug/L	88
62) dibromomethane	11.140	93	94978	189.98 ug/L	90
63) bromodichloromethane	11.265	83	237242	160.60 ug/L	97
64) 2-nitropropane	11.485	41	47309	115.93 ug/L #	84
65) 2-chloroethyl vinyl ether	11.506	63	209165	711.67 ug/L	96
66) epichlorohydrin	11.626	57	61851	1118.44 ug/L	92
67) cis-1,3-dichloropropene	11.725	75	293316	168.88 ug/L	77
68) 4-methyl-2-pentanone	11.814	58	50289	197.39 ug/L #	70
69) 3-methyl-1-butanol	11.835	70	64886	4088.74 ug/L #	76
70) toluene	12.086	91	725122	145.33 ug/L	98
71) trans-1,3-dichloropropene	12.285	75	246661	179.98 ug/L #	76
72) ethyl methacrylate	12.275	69	171242	205.15 ug/L	83
73) 1,1,2-trichloroethane	12.500	83	106997	198.57 ug/L	91
74) 2-hexanone	12.667	58	41184	198.21 ug/L	93
77) tetrachloroethene	12.667	166	174278	146.29 ug/L	94
78) 1,3-dichloropropane	12.683	76	207366	157.17 ug/L	96
79) butyl acetate	12.740	56	78748	163.98 ug/L #	80
80) 3,3-Dimethyl-1-Butanol	12.840	57	115958	1790.52 ug/L	95
81) dibromochloromethane	12.944	129	150260	191.88 ug/L	100
82) 1,2-dibromoethane	13.096	107	119590	191.48 ug/L	100
83) chlorobenzene	13.551	112	431155	143.04 ug/L	92
84) 1,1,1,2-tetrachloroethane	13.614	131	151635	147.66 ug/L	95
85) ethylbenzene	13.608	91	763036	122.01 ug/L	93
86) m,p-xylene	13.713	106	574678	269.26 ug/L	95
87) o-xylene	14.131	106	278854	140.75 ug/L	94
88) styrene	14.142	104	467087	155.65 ug/L	94
89) bromoform	14.409	173	89992	223.05 ug/L	97
92) isopropylbenzene	14.471	105	736489	106.91 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179924.D
Acq On : 28 Dec 2012 1:53 pm
Operator : SCOTTM
Sample : IC7266-100
Misc : MS40394,VI7266,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 28 14:16:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration

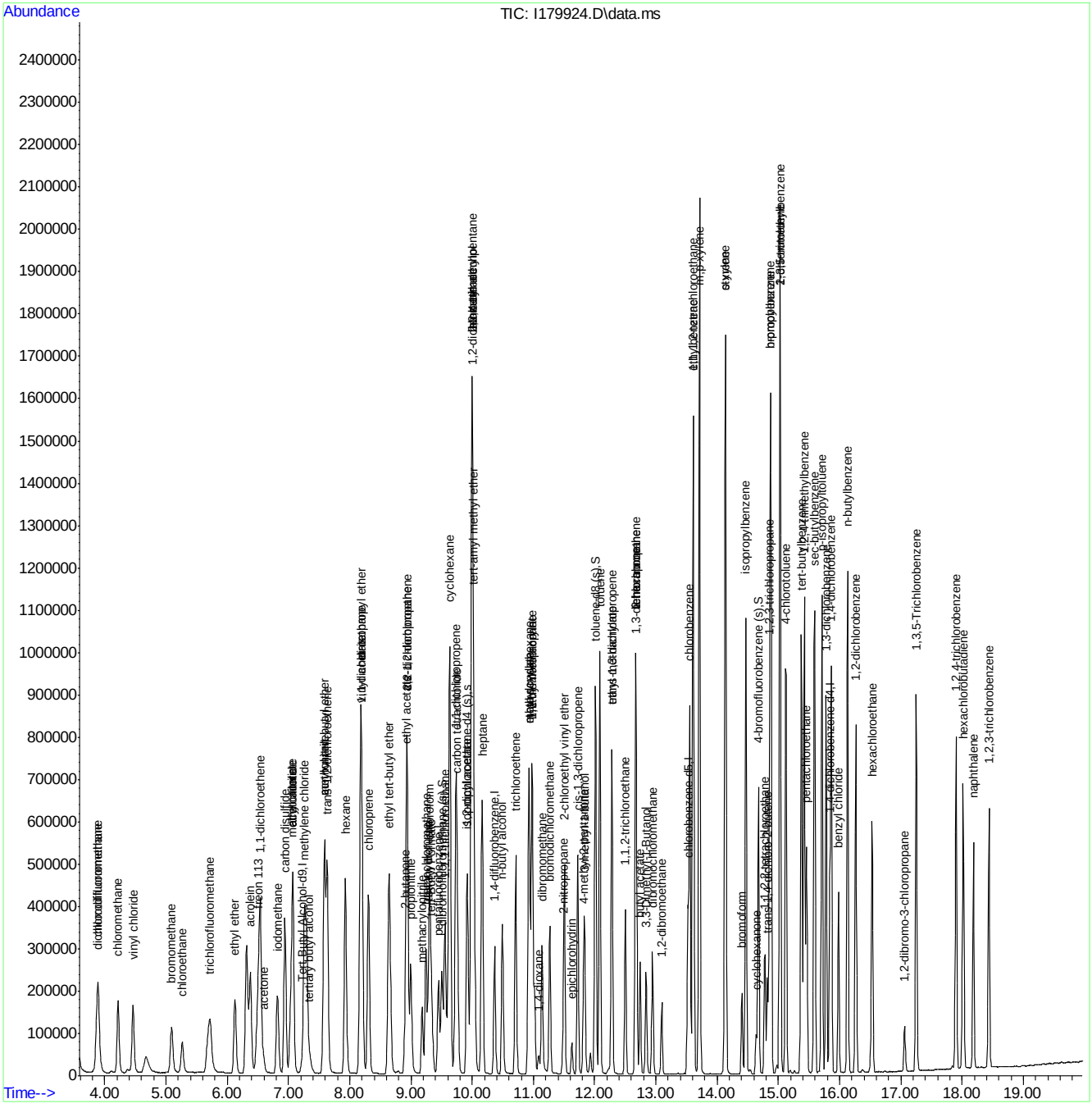
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) cyclohexanone	14.633	55	38528	976.83 ug/L	90
94) 1,1,2,2-tetrachloroethane	14.780	83	149936	146.25 ug/L	97
95) trans-1,4-dichloro-2-b...	14.817	53	44634	142.87 ug/L	82
96) 1,2,3-trichloropropane	14.853	110	32617	162.04 ug/L	97
97) n-propylbenzene	14.879	91	869410	103.40 ug/L	92
98) bromobenzene	14.869	156	173832	138.56 ug/L #	82
99) 2-chlorotoluene	15.026	126	171057	118.22 ug/L #	86
100) 4-chlorotoluene	15.120	91	547480	114.32 ug/L	93
101) 1,3,5-trimethylbenzene	15.026	105	623105	110.16 ug/L	97
102) tert-butylbenzene	15.376	119	525063	114.19 ug/L	91
103) pentachloroethane	15.460	167	107266	142.39 ug/L	94
104) 1,2,4-trimethylbenzene	15.423	105	626762	113.84 ug/L	96
105) sec-butylbenzene	15.591	105	810741	108.07 ug/L	98
106) p-isopropyltoluene	15.711	119	665721	113.64 ug/l	96
107) benzyl chloride	15.983	91	292603	169.02 ug/L	94
108) 1,3-dichlorobenzene	15.779	146	346203	136.81 ug/L	98
109) 1,4-dichlorobenzene	15.863	146	350709	142.43 ug/L	99
110) 1,2-dichlorobenzene	16.265	146	324130	142.85 ug/L	96
111) n-butylbenzene	16.129	92	376751	114.17 ug/L	91
112) hexachloroethane	16.532	119	136970	115.76 ug/L	95
113) 1,2-dibromo-3-chloropr...	17.066	157	27372	186.77 ug/L	81
114) 1,3,5-Trichlorobenzene	17.254	180	284474	146.44 ug/L	98
115) 1,2,4-trichlorobenzene	17.902	180	238694	175.56 ug/L	98
116) hexachlorobutadiene	18.017	225	152571	134.22 ug/L	97
117) naphthalene	18.185	128	400350	183.43 ug/L	97
118) 1,2,3-trichlorobenzene	18.441	180	196368	173.00 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179924.D
Acq On : 28 Dec 2012 1:53 pm
Operator : SCOTTM
Sample : IC7266-100
Misc : MS40394,VI7266,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 28 14:16:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 17 10:39:42 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179925.D
Acq On : 28 Dec 2012 2:22 pm
Operator : SCOTTM
Sample : IC7266-200
Misc : MS40394,VI7266,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 28 14:45:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 14:25:10 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.233	65	82070	50.00	ug/L	0.00
5) pentafluorobenzene	9.450	168	171495	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.366	114	258374	50.00	ug/L	0.00
75) chlorobenzene-d5	13.519	117	204661	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.842	152	115472	50.00	ug/L	0.00

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.503	113	345426	233.21	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 466.42%#			
47) 1,2-dichloroethane-d4...	9.921	65	409956	226.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 452.26%#			
76) toluene-d8 (s)	12.013	98	1254680	233.43	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 466.86%#			
91) 4-bromofluorobenzene (s)	14.675	95	459104	224.28	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 448.56%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.348	59	188758	880.36	ug/L	92
3) iso-butyl alcohol	9.999	74	121486	1747.58	ug/L #	96
4) 1,4-dioxane	11.087	88	64103	5027.89	ug/L	97
6) chlorodifluoromethane	3.891	51	503668	217.75	ug/L	99
7) dichlorodifluoromethane	3.870	85	551765	211.08	ug/L	99
8) chloromethane	4.220	50	553194	203.07	ug/L	99
9) vinyl chloride	4.466	62	517231	205.85	ug/L	99
10) bromomethane	5.088	94	224403	183.20	ug/L	98
11) chloroethane	5.261	64	200082	199.55	ug/L	98
12) trichlorofluoromethane	5.716	101	539788	217.77	ug/L	98
13) ethyl ether	6.124	74	190586	191.68	ug/L	99
14) acrolein	6.375	56	537576	1868.83	ug/L	98
15) freon 113	6.506	151	259899	208.63	ug/L	99
16) 1,1-dichloroethene	6.537	61	655088	209.57	ug/L	99
17) acetone	6.595	58	24630	186.48	ug/L	94
18) iodomethane	6.819	142	612411	211.44	ug/L #	61
19) carbon disulfide	6.940	76	1363164	210.19	ug/L	100
20) methyl acetate	7.055	74	45458	193.07	ug/L	99
21) allyl chloride	7.071	76	228650	206.57	ug/L	94
22) acetonitrile	7.065	41	1147278	2019.56	ug/L	99
23) methylene chloride	7.259	84	375370	190.90	ug/L	99
24) methyl tert butyl ether	7.588	73	1059056	201.69	ug/L	99
25) acrylonitrile	7.583	53	506413	961.99	ug/L	99
26) trans-1,2-dichloroethene	7.630	96	364089	179.01	ug/L	99
27) hexane	7.928	57	552030	165.06	ug/L	99
28) di-isopropyl ether	8.179	45	1391212	192.38	ug/L	94
29) vinyl acetate	8.200	65	236384	197.82	ug/L	95
30) 1,1-dichloroethane	8.200	63	738861	200.57	ug/L	100
31) chloroprene	8.305	53	650449	199.32	ug/L	99
32) ethyl tert-butyl ether	8.645	59	1302264	199.10	ug/L	99
33) 2-butanone	8.896	72	33227	214.30	ug/L	84
34) ethyl acetate	8.917	45	42056	177.04	ug/L	65
35) 2,2-dichloropropane	8.938	77	643589	197.03	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179925.D
Acq On : 28 Dec 2012 2:22 pm
Operator : SCOTTM
Sample : IC7266-200
Misc : MS40394,VI7266,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 28 14:45:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 14:25:10 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) cis-1,2-dichloroethene	8.932	96	390238	197.71 ug/L	99
37) methacrylonitrile	9.184	67	120149	204.40 ug/L	100
38) propionitrile	9.000	54	398173	2047.51 ug/L	99
39) bromochloromethane	9.246	128	167089	216.47 ug/L	96
40) tetrahydrofuran	9.283	42	114410	191.97 ug/L	98
41) chloroform	9.304	83	681553	199.83 ug/L	100
42) tert-Butyl Formate	9.335	59	326926	203.13 ug/L #	87
44) 1,1,1-trichloroethane	9.555	97	623063	214.69 ug/L	99
45) cyclohexane	9.628	84	586103	205.39 ug/L	99
48) carbon tetrachloride	9.759	117	526589	217.82 ug/L	99
49) 1,1-dichloropropene	9.733	75	557809	199.78 ug/L	100
50) isopropyl acetate	9.916	61	124425	207.04 ug/L	100
51) benzene	9.994	78	1485670	197.46 ug/L	99
52) 2,2,4-trimethylpentane	9.994	57	1665124	179.29 ug/L	100
53) tert-amyl methyl ether	10.026	73	1067948	194.60 ug/L	100
54) 1,2-dichloroethane	10.010	62	479240	195.72 ug/L	99
55) heptane	10.162	57	327215	161.77 ug/L	99
56) n-butyl alcohol	10.491	56	419262	10923.60 ug/L	100
57) trichloroethene	10.711	95	387749	205.39 ug/L	99
58) ethyl acrylate	10.930	55	629375	197.14 ug/L	99
59) methyl methacrylate	10.977	69	198635	211.96 ug/L	98
60) 1,2-dichloropropane	10.977	63	403019	204.11 ug/L	99
61) methylcyclohexane	10.930	83	660590	198.30 ug/L	99
62) dibromomethane	11.140	93	199082	205.50 ug/L	100
63) bromodichloromethane	11.265	83	500691	211.17 ug/L	99
64) 2-nitropropane	11.485	41	102529	202.77 ug/L	95
65) 2-chloroethyl vinyl ether	11.506	63	437180	1004.92 ug/L	99
66) epichlorohydrin	11.626	57	128324	962.95 ug/L	100
67) cis-1,3-dichloropropene	11.725	75	614930	205.10 ug/L	100
68) 4-methyl-2-pentanone	11.820	58	108631	211.36 ug/L	98
69) 3-methyl-1-butanol	11.835	70	137374	4123.76 ug/L	99
70) toluene	12.086	91	1479302	195.46 ug/L	99
71) trans-1,3-dichloropropene	12.285	75	507664	198.88 ug/L	98
72) ethyl methacrylate	12.275	69	360104	215.74 ug/L	98
73) 1,1,2-trichloroethane	12.499	83	225499	203.85 ug/L	98
74) 2-hexanone	12.667	58	86472	224.51 ug/L	99
77) tetrachloroethene	12.667	166	356683	187.37 ug/L	98
78) 1,3-dichloropropane	12.683	76	427482	203.11 ug/L	99
79) butyl acetate	12.740	56	162313	203.24 ug/L	97
80) 3,3-Dimethyl-1-Butanol	12.839	57	246568	2075.45 ug/L	99
81) dibromochloromethane	12.944	129	321080	229.51 ug/L	100
82) 1,2-dibromoethane	13.096	107	254830	214.15 ug/L	100
83) chlorobenzene	13.551	112	889991	203.41 ug/L	99
84) 1,1,1,2-tetrachloroethane	13.614	131	318414	215.46 ug/L	98
85) ethylbenzene	13.608	91	1541410	189.30 ug/L	98
86) m,p-xylene	13.713	106	1160696	382.11 ug/L	99
87) o-xylene	14.131	106	567539	198.22 ug/L	98
88) styrene	14.142	104	944245	200.44 ug/L	100
89) bromoform	14.409	173	197219	240.23 ug/L	99
92) isopropylbenzene	14.471	105	1523127	188.13 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179925.D
Acq On : 28 Dec 2012 2:22 pm
Operator : SCOTTM
Sample : IC7266-200
Misc : MS40394,VI7266,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 28 14:45:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 14:25:10 2012
Response via : Initial Calibration

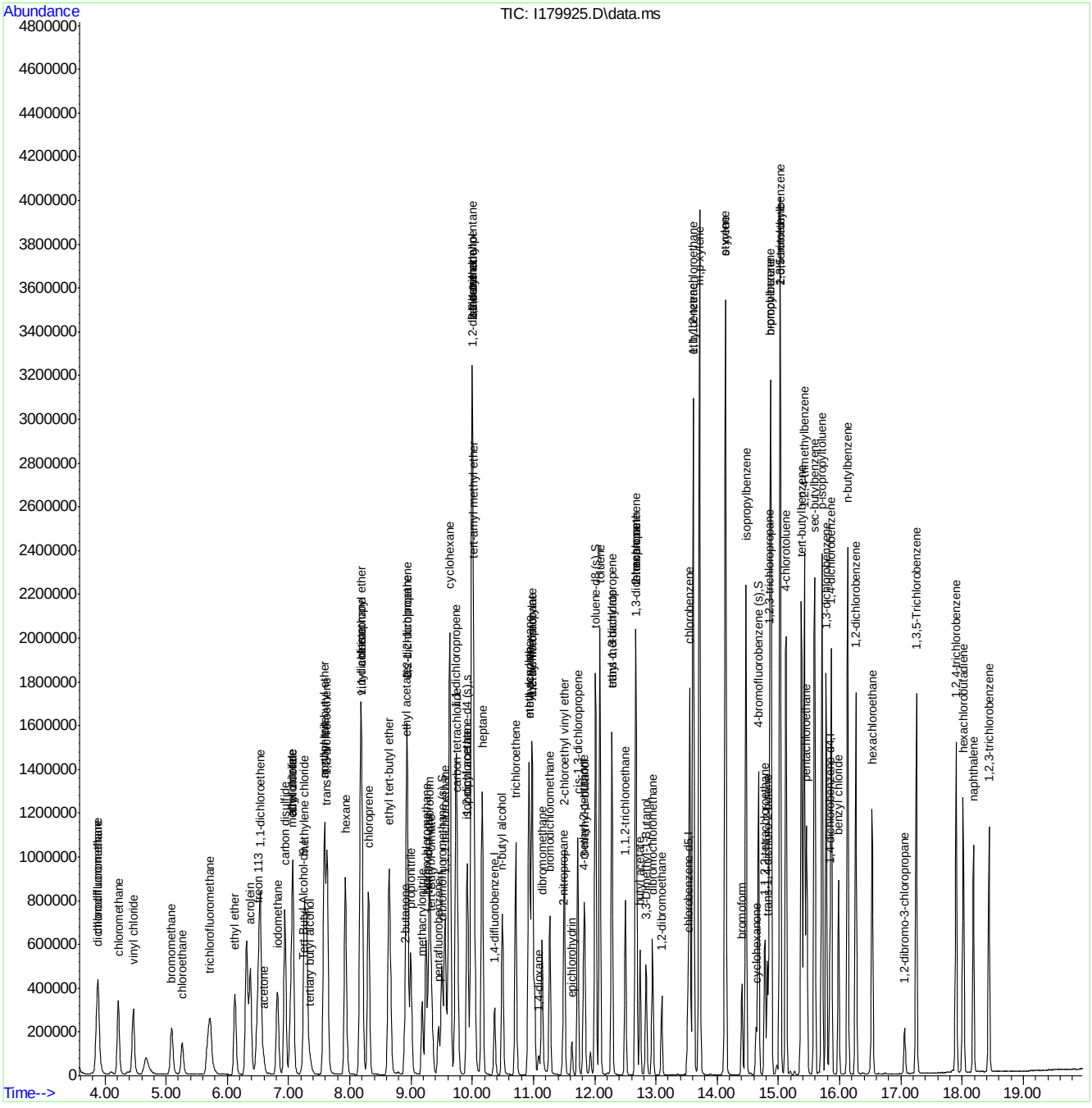
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) cyclohexanone	14.639	55	92505	2022.07	ug/L	99
94) 1,1,2,2-tetrachloroethane	14.780	83	322595	201.75	ug/L	98
95) trans-1,4-dichloro-2-b...	14.822	53	98935	201.26	ug/L	99
96) 1,2,3-trichloropropane	14.853	110	68926	203.83	ug/L	98
97) n-propylbenzene	14.879	91	1749130	170.62	ug/L	99
98) bromobenzene	14.869	156	362829	193.17	ug/L #	91
99) 2-chlorotoluene	15.026	126	349422	179.30	ug/L	97
100) 4-chlorotoluene	15.125	91	1138052	180.67	ug/L	97
101) 1,3,5-trimethylbenzene	15.031	105	1269186	178.47	ug/L	99
102) tert-butylbenzene	15.376	119	1087147	194.23	ug/L	99
103) pentachloroethane	15.460	167	234854	230.87	ug/L	98
104) 1,2,4-trimethylbenzene	15.423	105	1300418	181.53	ug/L	99
105) sec-butylbenzene	15.591	105	1667218	179.87	ug/L	99
106) p-isopropyltoluene	15.711	119	1376418	170.67	ug/l	99
107) benzyl chloride	15.983	91	625489	219.88	ug/L	99
108) 1,3-dichlorobenzene	15.784	146	734868	188.22	ug/L	98
109) 1,4-dichlorobenzene	15.868	146	742237	185.74	ug/L	99
110) 1,2-dichlorobenzene	16.265	146	675423	191.44	ug/L	99
111) n-butylbenzene	16.135	92	769635	156.02	ug/L	99
112) hexachloroethane	16.532	119	284232	212.46	ug/L	98
113) 1,2-dibromo-3-chloropr...	17.066	157	55217	195.54	ug/L	97
114) 1,3,5-Trichlorobenzene	17.254	180	551254	176.94	ug/L	100
115) 1,2,4-trichlorobenzene	17.902	180	455596	178.57	ug/L	99
116) hexachlorobutadiene	18.023	225	284192	167.21	ug/L	99
117) naphthalene	18.185	128	763068	185.83	ug/L	99
118) 1,2,3-trichlorobenzene	18.441	180	361737	169.84	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179925.D
Acq On : 28 Dec 2012 2:22 pm
Operator : SCOTTM
Sample : IC7266-200
Misc : MS40394,VI7266,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 28 14:45:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 14:25:10 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179927.D
Acq On : 28 Dec 2012 3:26 pm
Operator : SCOTTM
Sample : ICV7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 28 15:49:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 15:30:39 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.228	65	84883	50.00	ug/L	0.00
5) pentafluorobenzene	9.445	168	179079	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.366	114	271910	50.00	ug/L	0.00
75) chlorobenzene-d5	13.520	117	218711	50.00	ug/L	0.00
90) 1,4-dichlorobenzene-d4	15.842	152	118672	50.00	ug/L	0.00

System Monitoring Compounds

43) dibromofluoromethane (s)	9.497	113	83241	47.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.58%			
47) 1,2-dichloroethane-d4...	9.921	65	101400	47.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 94.08%			
76) toluene-d8 (s)	12.013	98	310749	47.48	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 94.96%			
91) 4-bromofluorobenzene (s)	14.675	95	111403	46.95	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 93.90%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.348	59	49065	224.61	ug/L	91
3) iso-butyl alcohol	9.994	74	31134	442.33	ug/L #	1
4) 1,4-dioxane	11.087	88	16161	1224.60	ug/L	97
6) chlorodifluoromethane	3.896	51	122188	50.03	ug/L	99
7) dichlorodifluoromethane	3.870	85	140394	51.08	ug/L	99
8) chloromethane	4.215	50	136409	47.86	ug/L	99
9) vinyl chloride	4.456	62	131798	50.05	ug/L	99
10) bromomethane	5.088	94	56058	44.29	ug/L	99
11) chloroethane	5.266	64	50802	48.54	ug/L	98
12) trichlorofluoromethane	5.716	101	136491	52.15	ug/L	100
13) ethyl ether	6.124	74	46661	45.18	ug/L	96
14) acrolein	6.375	56	135811	455.88	ug/L	100
15) freon 113	6.506	151	66444	49.12	ug/L	100
16) 1,1-dichloroethene	6.542	61	161365	49.17	ug/L	99
17) acetone	6.595	58	6305	46.24	ug/L	97
18) iodomethane	6.820	142	147402	48.39	ug/L #	60
19) carbon disulfide	6.940	76	334498	49.11	ug/L	100
20) methyl acetate	7.060	74	10950	44.76	ug/L	96
21) allyl chloride	7.065	76	55980	48.23	ug/L	98
22) acetonitrile	7.065	41	286939	483.03	ug/L	100
23) methylene chloride	7.259	84	92338	45.23	ug/L	99
24) methyl tert butyl ether	7.588	73	514871	93.81	ug/L	100
25) acrylonitrile	7.583	53	129553	236.80	ug/L	99
26) trans-1,2-dichloroethene	7.630	96	89339	46.74	ug/L	98
28) di-isopropyl ether	8.179	45	367337	48.85	ug/L	88
30) 1,1-dichloroethane	8.195	63	183933	47.80	ug/L	100
31) chloroprene	8.305	53	160879	47.23	ug/L	99
32) ethyl tert-butyl ether	8.640	59	328850	48.17	ug/L	98
33) 2-butanone	8.896	72	8079	49.31	ug/L	96
34) ethyl acetate	8.917	45	11246	46.09	ug/L	69
35) 2,2-dichloropropane	8.933	77	158260	46.49	ug/L	99
36) cis-1,2-dichloroethene	8.933	96	96382	46.83	ug/L	99
37) methacrylonitrile	9.184	67	28577	46.41	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179927.D
Acq On : 28 Dec 2012 3:26 pm
Operator : SCOTTM
Sample : ICV7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 28 15:49:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 15:30:39 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.001	54	97946	480.70	ug/L		96
39) bromochloromethane	9.246	128	40165	49.38	ug/L		95
40) tetrahydrofuran	9.283	42	28568	46.17	ug/L		99
41) chloroform	9.304	83	164344	46.15	ug/L		99
42) tert-Butyl Formate	9.330	59	85282	50.65	ug/L	#	87
44) 1,1,1-trichloroethane	9.550	97	149401	48.90	ug/L		99
45) cyclohexane	9.623	84	142939	47.83	ug/L		90
48) carbon tetrachloride	9.754	117	127481	49.62	ug/L		98
49) 1,1-dichloropropene	9.728	75	136486	47.99	ug/L		99
50) isopropyl acetate	9.916	61	31929	50.23	ug/L	#	66
51) benzene	9.994	78	375378	47.48	ug/L		99
53) tert-amyl methyl ether	10.026	73	275560	47.86	ug/L		100
54) 1,2-dichloroethane	10.010	62	122217	47.54	ug/L		99
56) n-butyl alcohol	10.491	56	107344	2627.22	ug/L		98
57) trichloroethene	10.711	95	92560	46.45	ug/L		100
58) ethyl acrylate	10.925	55	159790	47.65	ug/L	#	100
59) methyl methacrylate	10.978	69	48208	48.52	ug/L		99
60) 1,2-dichloropropane	10.978	63	98783	47.43	ug/L		99
61) methylcyclohexane	10.925	83	167009	47.68	ug/L		99
62) dibromomethane	11.135	93	48209	47.14	ug/L		97
63) bromodichloromethane	11.265	83	117963	46.98	ug/L		99
64) 2-nitropropane	11.485	41	24008	45.01	ug/L		97
65) 2-chloroethyl vinyl ether	11.506	63	105528	230.35	ug/L		100
66) epichlorohydrin	11.626	57	33441	239.72	ug/L		99
67) cis-1,3-dichloropropene	11.720	75	147268	46.54	ug/L		98
68) 4-methyl-2-pentanone	11.814	58	25691	47.05	ug/L		99
69) 3-methyl-1-butanol	11.835	70	33714	958.44	ug/L		99
70) toluene	12.086	91	364628	45.89	ug/L		100
71) trans-1,3-dichloropropene	12.285	75	125722	46.83	ug/L		97
72) ethyl methacrylate	12.275	69	87233	49.18	ug/L		99
73) 1,1,2-trichloroethane	12.500	83	54285	46.53	ug/L		99
74) 2-hexanone	12.667	58	20636	46.61	ug/L		97
77) tetrachloroethene	12.672	166	86513	45.98	ug/L		98
78) 1,3-dichloropropane	12.683	76	105872	46.99	ug/L		100
79) butyl acetate	12.740	56	39903	46.66	ug/L		98
80) 3,3-Dimethyl-1-Butanol	12.840	57	59548	487.11	ug/L		99
81) dibromochloromethane	12.944	129	74344	48.93	ug/L		100
82) 1,2-dibromoethane	13.096	107	61163	47.72	ug/L		99
83) chlorobenzene	13.551	112	214970	45.89	ug/L		99
84) 1,1,1,2-tetrachloroethane	13.614	131	75742	47.55	ug/L		99
85) ethylbenzene	13.608	91	384763	44.70	ug/L		99
86) m,p-xylene	13.713	106	290963	90.08	ug/L		99
87) o-xylene	14.131	106	140361	45.92	ug/L		98
88) styrene	14.142	104	234706	46.61	ug/L		99
89) bromoform	14.409	173	44583	49.57	ug/L		99
92) isopropylbenzene	14.471	105	366983	46.24	ug/L		100
93) cyclohexanone	14.639	55	17478	400.56	ug/L		95
94) 1,1,2,2-tetrachloroethane	14.780	83	76289	46.38	ug/L		99
95) trans-1,4-dichloro-2-b...	14.822	53	22402	44.31	ug/L		99
96) 1,2,3-trichloropropane	14.853	110	16606	47.68	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179927.D
Acq On : 28 Dec 2012 3:26 pm
Operator : SCOTTM
Sample : ICV7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 28 15:49:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 15:30:39 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
97) n-propylbenzene	14.879	91	435529	45.14 ug/L	100
98) bromobenzene	14.869	156	86815	45.15 ug/L	100
99) 2-chlorotoluene	15.026	126	85791	45.32 ug/L	100
100) 4-chlorotoluene	15.125	91	270821	44.74 ug/L	98
101) 1,3,5-trimethylbenzene	15.026	105	308795	45.34 ug/L	100
102) tert-butylbenzene	15.376	119	256457	44.73 ug/L	100
103) pentachloroethane	15.460	167	52914	49.66 ug/L	99
104) 1,2,4-trimethylbenzene	15.423	105	308504	44.93 ug/L	100
105) sec-butylbenzene	15.591	105	401388	45.76 ug/L	99
106) p-isopropyltoluene	15.711	119	328153	44.84 ug/l	100
107) benzyl chloride	15.983	91	147479	49.09 ug/L	100
108) 1,3-dichlorobenzene	15.779	146	169664	44.78 ug/L	100
109) 1,4-dichlorobenzene	15.868	146	171352	44.69 ug/L	99
110) 1,2-dichlorobenzene	16.265	146	159806	44.28 ug/L	99
111) n-butylbenzene	16.129	92	184786	45.80 ug/L	99
112) hexachloroethane	16.532	119	67070	48.35 ug/L	99
113) 1,2-dibromo-3-chloropr...	17.060	157	14308	49.46 ug/L	95
114) 1,3,5-Trichlorobenzene	17.254	180	141420	44.81 ug/L	100
115) 1,2,4-trichlorobenzene	17.902	180	122018	47.17 ug/L	100
116) hexachlorobutadiene	18.018	225	77157	44.17 ug/L	99
117) naphthalene	18.185	128	212969	50.98 ug/L	99
118) 1,2,3-trichlorobenzene	18.441	180	104750	48.77 ug/L	100

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

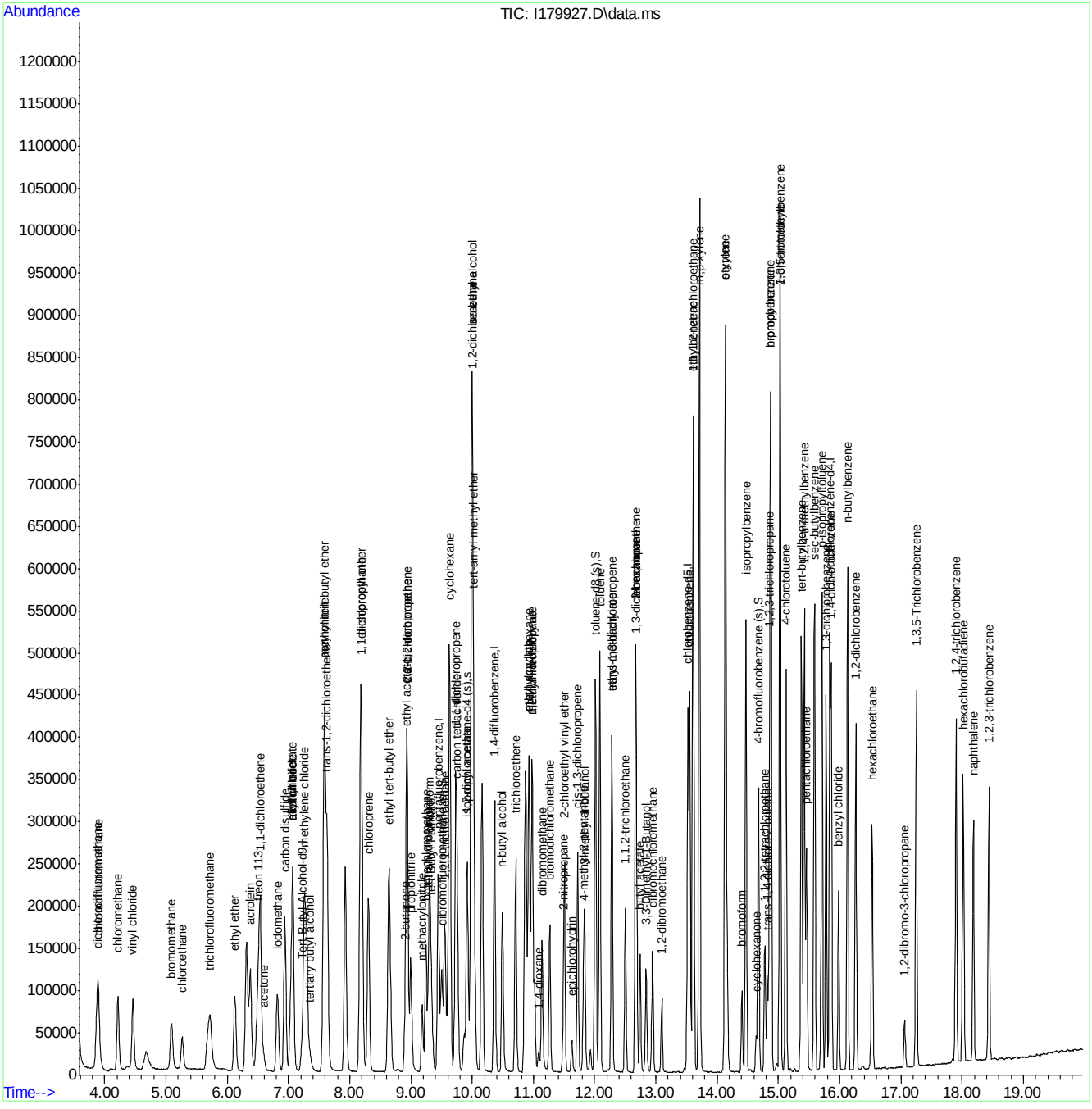
7.7.22

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7266\
Data File : I179927.D
Acq On : 28 Dec 2012 3:26 pm
Operator : SCOTTM
Sample : ICV7266-50
Misc : MS40394,VI7266,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 28 15:49:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Dec 28 15:30:39 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181528.D
Acq On : 15 Feb 2013 12:40 pm
Operator : SCOTTM
Sample : CC7266-50
Misc : MS43192,VI7333,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 13:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.217	65	114689	50.00	ug/L	0.00
5) pentafluorobenzene	9.476	168	213417	50.00	ug/L	0.00
46) 1,4-difluorobenzene	10.392	114	339861	50.00	ug/L	-0.01
75) chlorobenzene-d5	13.556	117	254580	50.00	ug/L	-0.01
90) 1,4-dichlorobenzene-d4	15.920	152	131849	50.00	ug/L	-0.01

System Monitoring Compounds						
43) dibromofluoromethane (s)	9.513	113	108041	51.53	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.06%			
47) 1,2-dichloroethane-d4...	9.937	65	146219	54.25	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 108.50%			
76) toluene-d8 (s)	12.044	98	397417	52.37	ug/L	-0.01
Spiked Amount 50.000	Range 81 - 127		Recovery = 104.74%			
91) 4-bromofluorobenzene (s)	14.722	95	141795	53.66	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 107.32%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.332	59	69059	233.98	ug/L	98
3) iso-butyl alcohol	10.015	74	41702	438.49	ug/L #	70
4) 1,4-dioxane	11.114	88	21454	1203.19	ug/L #	83
6) chlorodifluoromethane	3.796	51	156000	53.60	ug/L	99
7) dichlorodifluoromethane	3.770	85	145257	44.35	ug/L	99
8) chloromethane	4.126	50	187649	55.25	ug/L	98
9) vinyl chloride	4.377	62	157604	50.22	ug/L	99
10) bromomethane	5.031	94	71305	47.27	ug/L	98
11) chloroethane	5.209	64	65514	52.52	ug/L	93
12) trichlorofluoromethane	5.674	101	157922	50.63	ug/L	97
13) ethyl ether	6.087	74	59187	48.08	ug/L	87
14) acrolein	6.333	56	197761	557.02	ug/L	96
15) freon 113	6.479	151	76611	47.53	ug/L	96
16) 1,1-dichloroethene	6.506	61	210060	53.71	ug/L	94
17) acetone	6.558	58	8291	51.02	ug/L #	71
18) iodomethane	6.778	142	167691	46.19	ug/L #	59
19) carbon disulfide	6.903	76	391144	48.19	ug/L	95
20) methyl acetate	7.039	74	15533	53.28	ug/L #	73
21) allyl chloride	7.044	76	65071	47.05	ug/L #	64
22) acetonitrile	7.044	41	419335	592.33	ug/L	96
23) methylene chloride	7.238	84	113470	46.64	ug/L	87
24) methyl tert butyl ether	7.583	73	351396	53.73	ug/L	93
25) acrylonitrile	7.567	53	186223	285.62	ug/L	97
26) trans-1,2-dichloroethene	7.620	96	104661	45.95	ug/L	86
28) di-isopropyl ether	8.190	45	505342	56.39	ug/L	85
30) 1,1-dichloroethane	8.195	63	243467	53.09	ug/L	99
31) chloroprene	8.305	53	219363	54.04	ug/L	93
32) ethyl tert-butyl ether	8.661	59	464887	57.14	ug/L	96
33) 2-butanone	8.906	72	10810	55.37	ug/L	58
34) ethyl acetate	8.932	45	17193	59.13	ug/L	67
35) 2,2-dichloropropane	8.943	77	203911	50.26	ug/L	98
36) cis-1,2-dichloroethene	8.943	96	113986	46.47	ug/L	84
37) methacrylonitrile	9.194	67	39062	53.23	ug/L #	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181528.D
Acq On : 15 Feb 2013 12:40 pm
Operator : SCOTTM
Sample : CC7266-50
Misc : MS43192,VI7333,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 13:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	9.006	54	142804	588.09	ug/L		93
39) bromochloromethane	9.257	128	49064	50.62	ug/L		92
40) tetrahydrofuran	9.293	42	45049	61.09	ug/L		94
41) chloroform	9.314	83	214032	50.43	ug/L		97
42) tert-Butyl Formate	9.346	59	119645	59.62	ug/L	#	86
44) 1,1,1-trichloroethane	9.571	97	185080	50.83	ug/L		96
45) cyclohexane	9.639	84	160358	45.02	ug/L		93
48) carbon tetrachloride	9.775	117	161256	50.21	ug/L		98
49) 1,1-dichloropropene	9.748	75	169676	47.73	ug/L		96
50) isopropyl acetate	9.947	61	46149	58.09	ug/L		95
51) benzene	10.010	78	462550	46.80	ug/L		97
53) tert-amyl methyl ether	10.052	73	376191	52.27	ug/L		95
54) 1,2-dichloroethane	10.026	62	182591	56.83	ug/L		99
56) n-butyl alcohol	10.522	56	152508	2986.31	ug/L		88
57) trichloroethene	10.737	95	113166	45.44	ug/L		93
59) methyl methacrylate	11.009	69	63440	51.08	ug/L		91
60) 1,2-dichloropropane	10.998	63	130637	50.18	ug/L		98
61) methylcyclohexane	10.957	83	196634	44.92	ug/L		90
62) dibromomethane	11.161	93	64845	50.73	ug/L		95
63) bromodichloromethane	11.291	83	156357	49.82	ug/L		99
64) 2-nitropropane	11.511	41	49510	74.27	ug/L	#	1
65) 2-chloroethyl vinyl ether	11.537	63	236949	413.81	ug/L		98
66) epichlorohydrin	11.657	57	46931	269.16	ug/L		96
67) cis-1,3-dichloropropene	11.752	75	190435	48.15	ug/L		88
68) 4-methyl-2-pentanone	11.851	58	38884	56.98	ug/L		93
69) 3-methyl-1-butanol	11.872	70	47086	1067.81	ug/L		82
70) toluene	12.118	91	440754	44.38	ug/L		99
71) trans-1,3-dichloropropene	12.316	75	169234	50.43	ug/L		77
72) ethyl methacrylate	12.316	69	117184	52.85	ug/L		92
73) 1,1,2-trichloroethane	12.531	83	72518	49.73	ug/L		97
74) 2-hexanone	12.703	58	30918	55.87	ug/L		96
77) tetrachloroethene	12.703	166	94165	43.00	ug/L		95
78) 1,3-dichloropropane	12.714	76	139023	53.01	ug/L		99
79) butyl acetate	12.787	56	59173	60.52	ug/L		99
80) 3,3-Dimethyl-1-Butanol	12.876	57	85688	602.18	ug/L		98
81) dibromochloromethane	12.975	129	96657	54.65	ug/L		100
82) 1,2-dibromoethane	13.127	107	79886	53.55	ug/L		100
83) chlorobenzene	13.587	112	256822	47.10	ug/L		94
84) 1,1,1,2-tetrachloroethane	13.650	131	93807	50.60	ug/L		99
85) ethylbenzene	13.645	91	455818	45.49	ug/L		99
86) m,p-xylene	13.755	106	336824	89.59	ug/L		94
87) o-xylene	14.173	106	162342	45.63	ug/L		93
88) styrene	14.184	104	268617	45.83	ug/L		95
89) bromoform	14.445	173	58098	55.50	ug/L		97
92) isopropylbenzene	14.518	105	415603	47.14	ug/L		97
93) cyclohexanone	14.681	55	46258	916.37	ug/L		92
94) 1,1,2,2-tetrachloroethane	14.827	83	104644	57.26	ug/L		98
95) trans-1,4-dichloro-2-b...	14.869	53	32826	58.44	ug/L		88
96) 1,2,3-trichloropropane	14.900	110	21444	55.42	ug/L		98
97) n-propylbenzene	14.932	91	508871	47.47	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181528.D
Acq On : 15 Feb 2013 12:40 pm
Operator : SCOTTM
Sample : CC7266-50
Misc : MS43192,VI7333,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 13:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
98) bromobenzene	14.916	156	103439	48.41 ug/L #	91
99) 2-chlorotoluene	15.078	126	100329	47.70 ug/L	96
100) 4-chlorotoluene	15.177	91	335489	49.89 ug/L	98
101) 1,3,5-trimethylbenzene	15.088	105	368216	48.66 ug/L	99
102) tert-butylbenzene	15.444	119	299839	47.07 ug/L	93
103) pentachloroethane	15.528	167	67180	56.74 ug/L	93
104) 1,2,4-trimethylbenzene	15.491	105	377327	49.46 ug/L	98
105) sec-butylbenzene	15.669	105	467956	48.02 ug/L	99
106) p-isopropyltoluene	15.795	119	383428	47.16 ug/l	97
107) benzyl chloride	16.072	91	212755	63.74 ug/L	98
108) 1,3-dichlorobenzene	15.863	146	201592	47.89 ug/L	98
109) 1,4-dichlorobenzene	15.951	146	203214	47.70 ug/L	98
110) 1,2-dichlorobenzene	16.365	146	191959	47.88 ug/L	97
111) n-butylbenzene	16.229	92	217505	48.58 ug/L	99
112) hexachloroethane	16.637	119	78540	50.96 ug/L	98
113) 1,2-dibromo-3-chloropr...	17.186	157	18605	57.89 ug/L	90
114) 1,3,5-Trichlorobenzene	17.385	180	172134	49.10 ug/L	100
115) 1,2,4-trichlorobenzene	18.044	180	148496	51.66 ug/L	99
116) hexachlorobutadiene	18.169	225	95326	49.12 ug/L	96
117) naphthalene	18.331	128	268935	57.95 ug/L	97
118) 1,2,3-trichlorobenzene	18.587	180	129474	54.26 ug/L	99

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

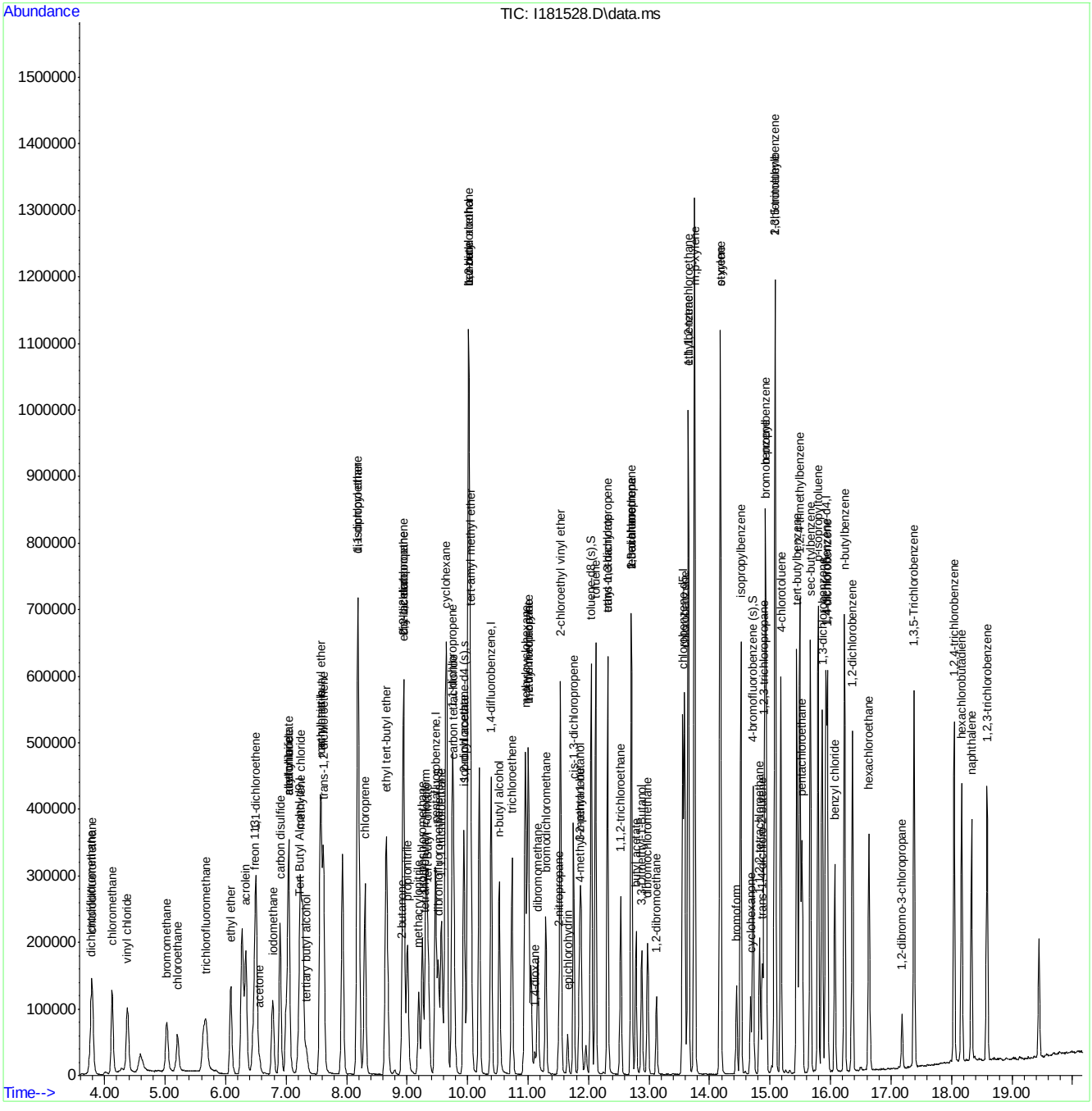
7.7.23

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VI7333\
Data File : I181528.D
Acq On : 15 Feb 2013 12:40 pm
Operator : SCOTTM
Sample : CC7266-50
Misc : MS43192,VI7333,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 13:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MI7266.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jan 29 10:37:03 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129649.D
Acq On : 7 Jan 2013 11:49 am
Operator : ROBERTS
Sample : IC5578-10
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 11 16:57:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.64	65	51870	500.00	ug/L	-0.01
4) pentafluorobenzene	9.82	168	134314	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	197281	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	158444	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	76599	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	16750	16.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 32.32%#			
47) 1,2-dichloroethane-d4 (s)	10.33	65	17271	16.49	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 32.98%#			
76) toluene-d8 (s)	12.34	98	55935	16.31	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 32.62%#			
100) 4-bromofluorobenzene (s)	14.96	95	19095	14.85	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 29.70%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	2633	256.76	ug/L	82
3) tertiary butyl alcohol	7.77	59	6195	51.80	ug/L	85
5) freon 141b	6.52	81	10799	11.17	ug/L #	97
6) freon 142b	4.43	65	12973	11.33	ug/L #	84
7) freon 143a	3.83	69	9372	12.17	ug/L #	97
8) chlorodifluoromethane	4.18	51	11477	11.21	ug/L	96
9) dichlorodifluoromethane	4.14	85	16100	11.33	ug/L	96
10) chloromethane	4.51	50	15737	10.69	ug/L	97
11) vinyl chloride	4.77	62	14773	11.24	ug/L	98
12) bromomethane	5.46	94	9732	11.59	ug/L	98
13) chloroethane	5.64	64	6966	11.57	ug/L	91
15) trichlorofluoromethane	6.08	101	18153	11.10	ug/L	97
16) ethyl ether	6.49	74	6611	9.91	ug/L	92
17) 2-chloropropane	6.71	63	4679	11.95	ug/L	99
18) acrolein	6.83	56	18140	93.56	ug/L	100
19) 1,1-dichloroethene	6.93	61	17026	11.63	ug/L	97
20) acetone	7.05	58	788	9.29	ug/L #	78
21) allyl chloride	7.48	76	7283	11.68	ug/L	87
23) iodomethane	7.23	142	21784	10.59	ug/L	97
24) iso-butyl alcohol	10.15	41	3832	107.70	ug/L	93
25) carbon disulfide	7.34	76	37901	11.52	ug/L	99
26) 1-chloropropane	7.69	63	917	11.48	ug/L #	94
27) methylene chloride	7.68	49	16071	10.77	ug/L	96
28) methyl acetate	7.49	74	1512	10.07	ug/L #	69
29) methyl tert butyl ether	7.96	73	33359	10.09	ug/L	98
30) trans-1,2-dichloroethene	8.03	61	16159	11.61	ug/L	97
31) di-isopropyl ether	8.52	45	38933	10.74	ug/L	99
32) ethyl tert-butyl ether	8.99	59	37234	10.32	ug/L	98
33) 2-butanone	9.33	72	975	8.80	ug/L #	51
34) 1,1-dichloroethane	8.60	63	20782	11.15	ug/L	99
35) chloroprene	8.69	53	15621	11.03	ug/L	97
36) acrylonitrile	8.06	53	15254	50.10	ug/L	96
37) vinyl acetate	8.59	86	1305	9.11	ug/L	56

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129649.D
Acq On : 7 Jan 2013 11:49 am
Operator : ROBERTS
Sample : IC5578-10
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 11 16:57:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
38) ethyl acetate	9.32	45	1181	9.69 ug/L #	1
39) 2,2-dichloropropane	9.33	77	17517	11.37 ug/L	94
40) cis-1,2-dichloroethene	9.34	96	13186	10.34 ug/L	97
41) propionitrile	9.47	54	12234	97.48 ug/L	90
42) bromochloromethane	9.66	130	8382	10.62 ug/L	98
43) tetrahydrofuran	9.69	72	1295	10.03 ug/L	88
44) chloroform	9.70	83	21179	10.52 ug/L	97
45) tert-Butyl Formate	9.71	59	8159	9.97 ug/L	98
48) freon 113	6.86	151	8156	11.27 ug/L	98
49) methacrylonitrile	9.62	67	3781	9.72 ug/L	94
50) 1,1,1-trichloroethane	9.93	97	17787	11.20 ug/L	98
51) Cyclohexane	9.97	84	16224	11.64 ug/L #	99
52) 2,2,4-trimethylpentane	10.30	57	40817	11.55 ug/L	97
53) tert-amyl methyl ether	10.37	73	34816	10.57 ug/L	94
55) epichlorohydrin	12.01	57	4365	47.97 ug/L	97
56) n-butyl alcohol	10.90	56	15130	486.72 ug/L	95
57) carbon tetrachloride	10.12	117	16110	11.52 ug/L	94
58) 1,1-dichloropropene	10.10	75	15071	11.46 ug/L	98
59) hexane	8.26	57	13627	11.39 ug/L	99
60) Tert Amyl Alcohol	10.27	73	3021	47.27 ug/L #	82
61) benzene	10.37	78	46526	10.77 ug/L	99
62) heptane	10.47	57	8103	11.56 ug/L	97
63) isopropyl acetate	10.28	61	4036	10.10 ug/L	93
64) 1,2-dichloroethane	10.42	62	13619	10.46 ug/L	96
65) trichloroethene	11.07	95	11580	10.90 ug/L	97
66) ethyl acrylate	11.08	55	10347	37.29 ug/L	60
67) 2-nitropropane	11.88	41	2687	9.37 ug/L	91
68) 2-chloroethyl vinyl ether	11.86	63	14092	47.25 ug/L	96
69) methyl methacrylate	11.34	69	6614	9.99 ug/L #	77
70) 1,2-dichloropropane	11.36	63	11474	10.75 ug/L	97
71) methylcyclohexane	11.25	83	17343	11.28 ug/L	98
72) Tert-amyl ethyl ether	11.18	59	27936	354.99 ug/L #	36
73) dibromomethane	11.53	93	6744	9.83 ug/L	94
74) bromodichloromethane	11.64	83	16089	10.39 ug/L	96
75) cis-1,3-dichloropropene	12.08	75	19227	10.64 ug/L	98
77) 4-methyl-2-pentanone	12.17	58	3728	9.95 ug/L	94
78) toluene	12.41	91	47486	10.60 ug/L	98
79) 3-methyl-1-butanol	12.19	70	5884	202.93 ug/L	97
80) trans-1,3-dichloropropene	12.63	75	16396	10.41 ug/L	97
81) ethyl methacrylate	12.59	69	12509	9.85 ug/L	98
82) 1,1,2-trichloroethane	12.85	83	7735	9.95 ug/L	96
83) 2-hexanone	13.00	58	3546	10.05 ug/L	89
85) tetrachloroethene	12.97	166	13015	11.39 ug/L	98
86) 1,3-dichloropropane	13.02	76	15064	10.38 ug/L	99
87) butyl acetate	13.05	56	5934	10.38 ug/L	97
88) dibromochloromethane	13.29	129	12298	10.21 ug/L	97
89) 1,2-dibromoethane	13.43	107	9785	10.30 ug/L	97
90) 3,3-Dimethyl-1-Butanol	13.17	57	10314	103.95 ug/L	97
91) chlorobenzene	13.86	112	30011	10.51 ug/L	98
92) 1,1,1,2-tetrachloroethane	13.92	131	11356	10.60 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129649.D
Acq On : 7 Jan 2013 11:49 am
Operator : ROBERTS
Sample : IC5578-10
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 11 16:57:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

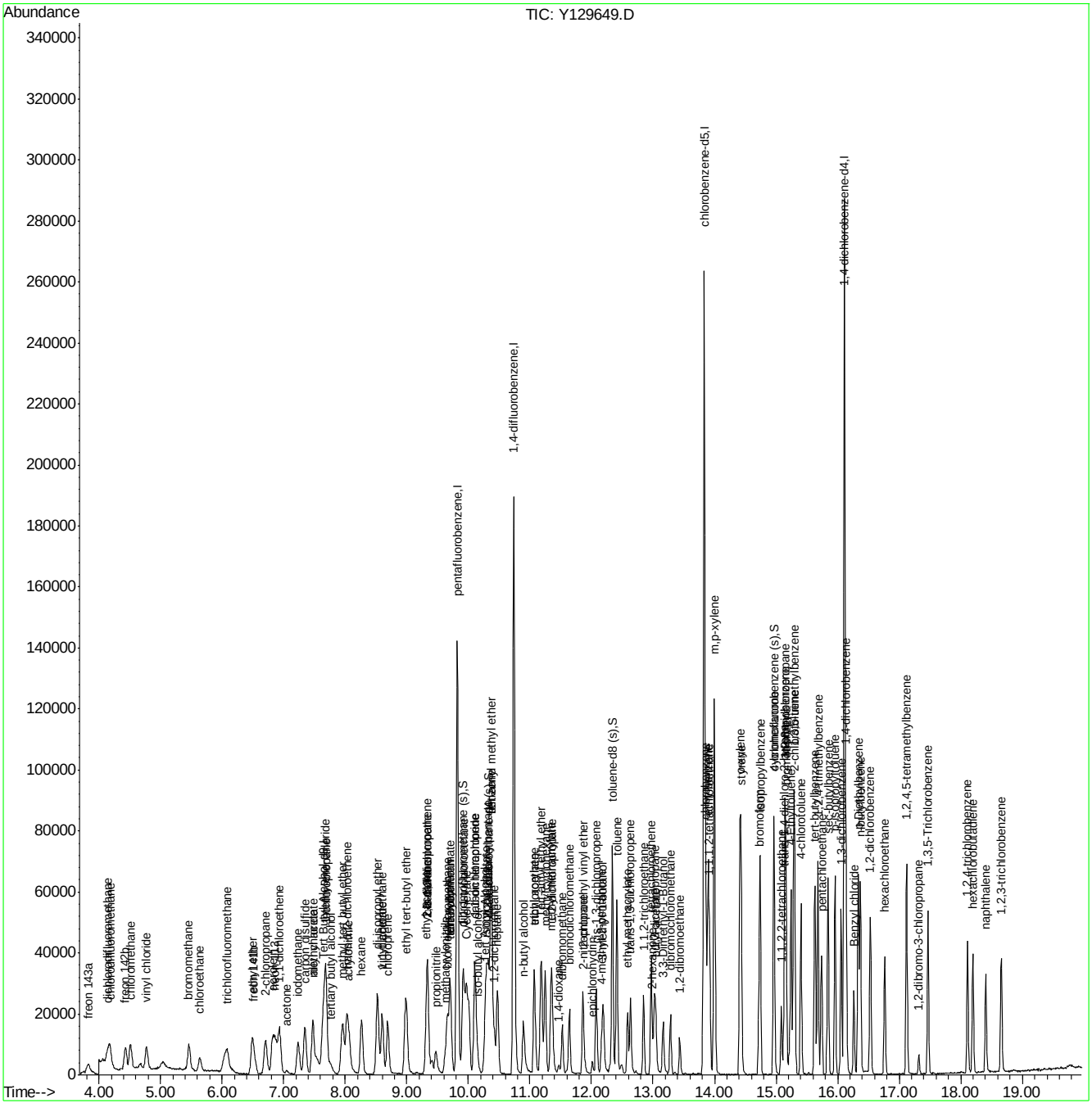
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) ethylbenzene	13.90	91	49915	10.90 ug/L	99
94) m,p-xylene	14.00	106	38949	21.99 ug/L	95
95) o-xylene	14.41	91	40877	10.44 ug/L	100
96) styrene	14.43	104	31734	10.60 ug/L	98
97) bromoform	14.72	173	8120	10.11 ug/L	96
99) isopropylbenzene	14.74	105	48770	10.84 ug/L	98
101) bromobenzene	15.16	156	13572	10.47 ug/L	97
102) cyclohexanone	14.96	55	16694	110.14 ug/L	96
103) 1,1,2,2-tetrachloroethane	15.08	83	11779	9.67 ug/L	98
104) trans-1,4-dichloro-2-buten	15.13	53	2879	9.96 ug/L	94
105) 1,2,3-trichloropropane	15.16	110	2822	9.78 ug/L	93
106) n-propylbenzene	15.14	91	56064	10.82 ug/L	99
107) 4-Ethyltoluene	15.24	105	45162	10.54 ug/L	99
108) 2-chlorotoluene	15.30	126	11874	11.05 ug/L	97
109) 4-chlorotoluene	15.40	91	35511	10.45 ug/L	99
110) 1,3,5-trimethylbenzene	15.29	105	41068	10.98 ug/L	96
111) tert-butylbenzene	15.63	119	34000	10.81 ug/L	98
112) pentachloroethane	15.74	167	8740	10.27 ug/L	99
113) 1,2,4-trimethylbenzene	15.68	105	41639	10.86 ug/L	94
114) sec-butylbenzene	15.84	105	51062	10.91 ug/L	98
115) 1,3-dichlorobenzene	16.05	146	24660	10.47 ug/L	98
116) p-isopropyltoluene	15.96	119	41855	10.85 ug/L	98
117) 1,4-dichlorobenzene	16.14	146	23631	10.04 ug/L	99
118) 1,2-dichlorobenzene	16.53	146	22596	9.98 ug/L	98
119) n-butylbenzene	16.37	134	9444	11.15 ug/L	98
120) p-Diethylbenzene	16.33	119	23322	10.10 ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	2226	9.13 ug/L	93
122) 1,3,5-Trichlorobenzene	17.46	180	18833	10.33 ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	15342	9.68 ug/L	98
124) 1,2,4,5-tetramethylbenzene	17.12	119	39233	10.10 ug/L	99
125) hexachlorobutadiene	18.20	225	9696	10.93 ug/L	94
126) naphthalene	18.41	128	29472	9.36 ug/L	97
127) 1,2,3-trichlorobenzene	18.66	180	13855	9.89 ug/L	98
128) hexachloroethane	16.76	119	8748	10.42 ug/L	98
129) Benzyl chloride	16.26	91	22743	10.32 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129649.D
Acq On : 7 Jan 2013 11:49 am
Operator : ROBERTS
Sample : IC5578-10
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 11 16:57:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129650.D
Acq On : 7 Jan 2013 12:25 pm
Operator : ROBERTS
Sample : IC5578-5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 17:02:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	62366	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	140347	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	203383	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	163328	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	79467	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	9179	8.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 16.96%#			
47) 1,2-dichloroethane-d4 (s)	10.34	65	10007	9.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 18.28%#			
76) toluene-d8 (s)	12.34	98	31175	8.82	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 17.64%#			
100) 4-bromofluorobenzene (s)	14.97	95	10603	7.95	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 15.90%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	1314	106.57	ug/L #	83
3) tertiary butyl alcohol	7.78	59	3525	24.52	ug/L	79
5) freon 141b	6.52	81	4740	4.69	ug/L #	77
6) freon 142b	4.44	65	5643	4.71	ug/L #	86
7) freon 143a	3.83	69	3817	4.74	ug/L #	91
8) chlorodifluoromethane	4.18	51	4946	4.62	ug/L	88
9) dichlorodifluoromethane	4.15	85	7144	4.81	ug/L	99
10) chloromethane	4.51	50	7481	4.86	ug/L	96
11) vinyl chloride	4.76	62	6990	5.09	ug/L	90
12) bromomethane	5.46	94	4464	5.09	ug/L	91
13) chloroethane	5.64	64	3259	5.18	ug/L	93
15) trichlorofluoromethane	6.07	101	8506	4.98	ug/L	97
16) ethyl ether	6.49	74	3320	4.77	ug/L	96
17) 2-chloropropane	6.71	63	1892	4.63	ug/L	82
18) acrolein	6.83	56	9876	48.75	ug/L	97
19) 1,1-dichloroethene	6.94	61	7722	5.05	ug/L	95
21) allyl chloride	7.48	76	3207	4.92	ug/L	84
23) iodomethane	7.24	142	10257	4.77	ug/L	96
24) iso-butyl alcohol	10.15	41	2117	56.94	ug/L	90
25) carbon disulfide	7.35	76	17295	5.03	ug/L	100
26) 1-chloropropane	7.69	63	388	4.65	ug/L #	71
27) methylene chloride	7.68	49	7935	5.09	ug/L	96
28) methyl acetate	7.47	74	579m	3.69	ug/L	
29) methyl tert butyl ether	7.97	73	17582	5.09	ug/L	96
30) trans-1,2-dichloroethene	8.03	61	7334	5.04	ug/L	99
31) di-isopropyl ether	8.53	45	18173	4.80	ug/L	98
32) ethyl tert-butyl ether	8.99	59	18303	4.86	ug/L	93
33) 2-butanone	9.35	72	428	3.70	ug/L #	1
34) 1,1-dichloroethane	8.61	63	9687	4.97	ug/L	97
35) chloroprene	8.69	53	6951	4.70	ug/L	94
36) acrylonitrile	8.07	53	8552	26.88	ug/L	90
38) ethyl acetate	9.33	45	546	4.29	ug/L #	1
39) 2,2-dichloropropane	9.33	77	8013	4.98	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129650.D
Acq On : 7 Jan 2013 12:25 pm
Operator : ROBERTS
Sample : IC5578-5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 17:02:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) cis-1,2-dichloroethene	9.35	96	6460	4.85	ug/L		100
41) propionitrile	9.48	54	6386	48.69	ug/L		92
42) bromochloromethane	9.67	130	4094	4.96	ug/L		93
43) tetrahydrofuran	9.69	72	648	4.80	ug/L	#	73
44) chloroform	9.70	83	10405	4.94	ug/L		95
45) tert-Butyl Formate	9.71	59	4133	4.84	ug/L		98
48) freon 113	6.87	151	3635	4.81	ug/L		96
49) methacrylonitrile	9.62	67	1876	4.62	ug/L		93
50) 1,1,1-trichloroethane	9.93	97	8287	4.99	ug/L		98
51) Cyclohexane	9.98	84	7359	5.05	ug/L	#	97
52) 2,2,4-trimethylpentane	10.30	57	18236	4.94	ug/L		98
53) tert-amyl methyl ether	10.37	73	17440	5.07	ug/L		94
55) epichlorohydrin	12.03	57	2285	24.36	ug/L		84
56) n-butyl alcohol	10.90	56	8051	251.23	ug/L		97
57) carbon tetrachloride	10.12	117	7268	5.04	ug/L		96
58) 1,1-dichloropropene	10.10	75	7025	5.18	ug/L		91
59) hexane	8.26	57	6090	4.94	ug/L		94
60) Tert Amyl Alcohol	10.27	73	1977	30.01	ug/L	#	75
61) benzene	10.37	78	22681	5.09	ug/L		98
62) heptane	10.48	57	3588	4.97	ug/L		86
63) isopropyl acetate	10.29	61	2165	5.25	ug/L		88
64) 1,2-dichloroethane	10.42	62	7100	5.29	ug/L		97
65) trichloroethene	11.07	95	5521	5.04	ug/L		95
66) ethyl acrylate	11.09	55	5462	19.09	ug/L		55
67) 2-nitropropane	11.88	41	1485	5.02	ug/L	#	82
68) 2-chloroethyl vinyl ether	11.87	63	7352	23.91	ug/L		95
69) methyl methacrylate	11.34	69	3345	4.90	ug/L		83
70) 1,2-dichloropropane	11.35	63	5736	5.21	ug/L		94
71) methylcyclohexane	11.26	83	7773	4.90	ug/L		91
72) Tert-amyl ethyl ether	11.18	59	14321	176.52	ug/L	#	36
73) dibromomethane	11.52	93	3427	4.85	ug/L		91
74) bromodichloromethane	11.64	83	7807	4.89	ug/L		99
75) cis-1,3-dichloropropene	12.08	75	9663	5.19	ug/L		94
77) 4-methyl-2-pentanone	12.17	58	1989	5.15	ug/L	#	83
78) toluene	12.41	91	22595	4.89	ug/L		99
79) 3-methyl-1-butanol	12.19	70	3094	103.51	ug/L		90
80) trans-1,3-dichloropropene	12.64	75	8322	5.12	ug/L		99
81) ethyl methacrylate	12.59	69	6369	4.87	ug/L		96
82) 1,1,2-trichloroethane	12.85	83	4149	5.18	ug/L		94
83) 2-hexanone	13.01	58	1765	4.85	ug/L		92
85) tetrachloroethene	12.97	166	6184	5.25	ug/L		94
86) 1,3-dichloropropane	13.03	76	7639	5.11	ug/L		97
87) butyl acetate	13.05	56	2957	5.02	ug/L		87
88) dibromochloromethane	13.29	129	6298	5.07	ug/L		98
89) 1,2-dibromoethane	13.44	107	5086	5.20	ug/L		93
90) 3,3-Dimethyl-1-Butanol	13.17	57	5689	55.62	ug/L	#	96
91) chlorobenzene	13.86	112	14566	4.95	ug/L		98
92) 1,1,1,2-tetrachloroethane	13.92	131	5411	4.90	ug/L		95
93) ethylbenzene	13.90	91	23728	5.03	ug/L		98
94) m,p-xylene	14.00	106	18493	10.13	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129650.D
Acq On : 7 Jan 2013 12:25 pm
Operator : ROBERTS
Sample : IC5578-5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 17:02:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

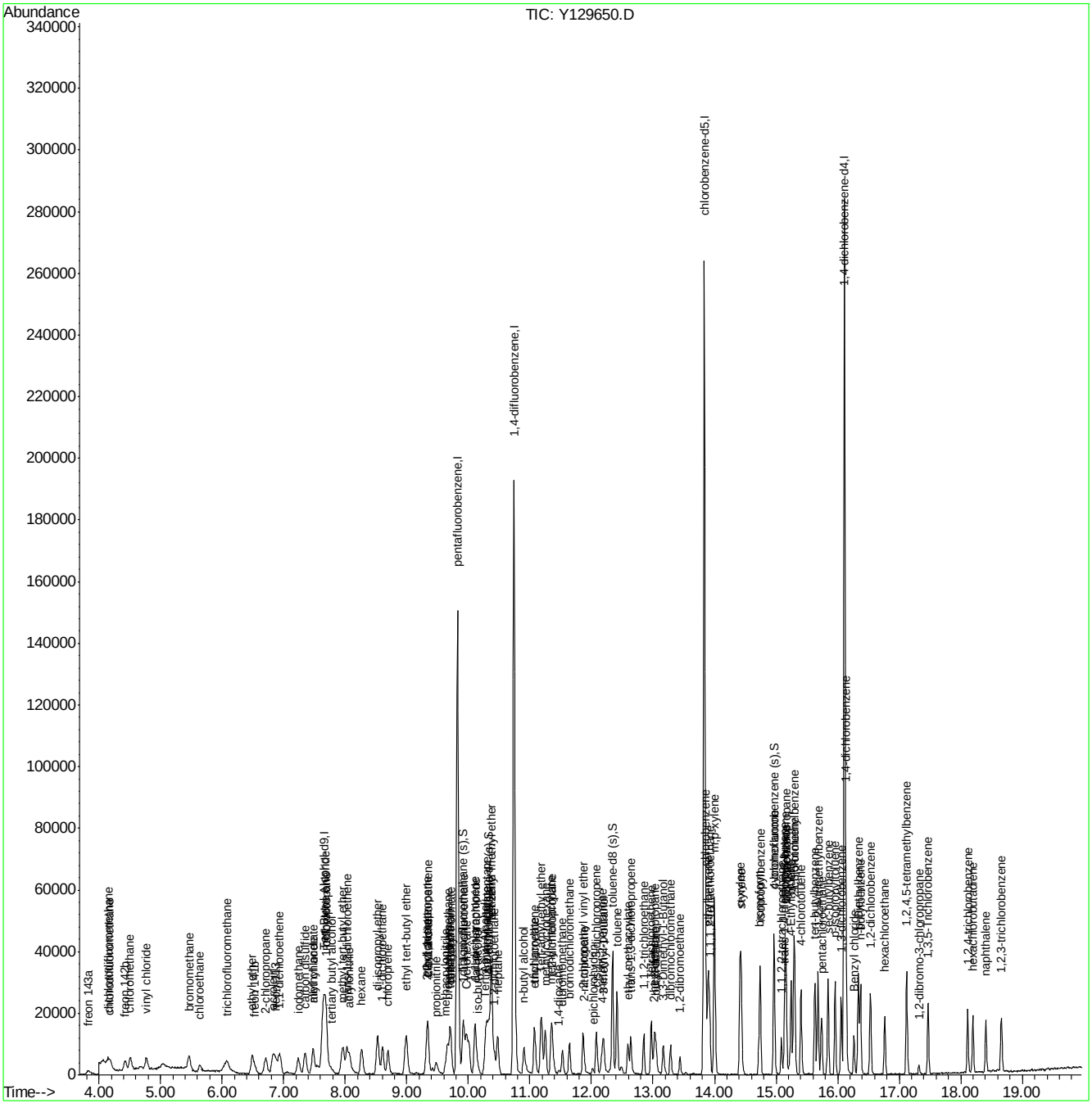
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) o-xylene	14.42	91	19547	4.84 ug/L	97
96) styrene	14.43	104	15546	5.04 ug/L	98
97) bromoform	14.73	173	4111	4.96 ug/L	98
99) isopropylbenzene	14.74	105	22776	4.88 ug/L	97
101) bromobenzene	15.16	156	6854	5.10 ug/L	94
102) cyclohexanone	14.96	55	8645	54.98 ug/L	94
103) 1,1,2,2-tetrachloroethane	15.08	83	6376	5.04 ug/L	98
104) trans-1,4-dichloro-2-buten	15.13	53	1389	4.63 ug/L	89
105) 1,2,3-trichloropropane	15.16	110	1547	5.17 ug/L	95
106) n-propylbenzene	15.14	91	26622	4.95 ug/L	99
107) 4-Ethyltoluene	15.24	105	23286	5.24 ug/L	97
108) 2-chlorotoluene	15.30	126	5998	5.38 ug/L	89
109) 4-chlorotoluene	15.40	91	17758	5.04 ug/L	95
110) 1,3,5-trimethylbenzene	15.29	105	19046	4.91 ug/L	97
111) tert-butylbenzene	15.63	119	15841	4.85 ug/L	95
112) pentachloroethane	15.74	167	4373	4.95 ug/L	99
113) 1,2,4-trimethylbenzene	15.68	105	19846	4.99 ug/L	90
114) sec-butylbenzene	15.84	105	23888	4.92 ug/L	98
115) 1,3-dichlorobenzene	16.06	146	12167	4.98 ug/L	96
116) p-isopropyltoluene	15.96	119	19845	4.96 ug/L	99
117) 1,4-dichlorobenzene	16.14	146	11936	4.89 ug/L	99
118) 1,2-dichlorobenzene	16.53	146	11555	4.92 ug/L	98
119) n-butylbenzene	16.37	134	4016	4.57 ug/L	93
120) p-Diethylbenzene	16.34	119	11652	4.87 ug/L	97
121) 1,2-dibromo-3-chloropropan	17.32	157	1234	4.88 ug/L	95
122) 1,3,5-Trichlorobenzene	17.47	180	8823	4.66 ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	7324	4.45 ug/L	96
124) 1,2,4,5-tetramethylbenzene	17.12	119	18723	4.65 ug/L	98
125) hexachlorobutadiene	18.20	225	4624	5.03 ug/L	96
126) naphthalene	18.41	128	15335	4.69 ug/L	97
127) 1,2,3-trichlorobenzene	18.66	180	6658	4.58 ug/L	93
128) hexachloroethane	16.76	119	4178	4.80 ug/L	100
129) Benzyl chloride	16.26	91	10712	4.68 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129650.D
Acq On : 7 Jan 2013 12:25 pm
Operator : ROBERTS
Sample : IC5578-5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 11 17:02:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



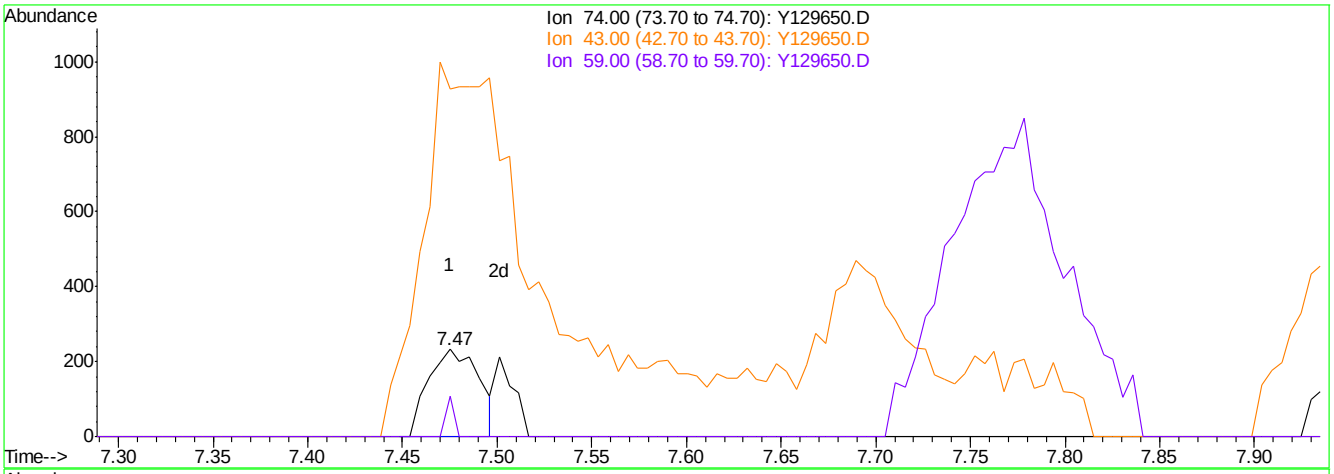
ACCUTEST LABORATORIES JB28370

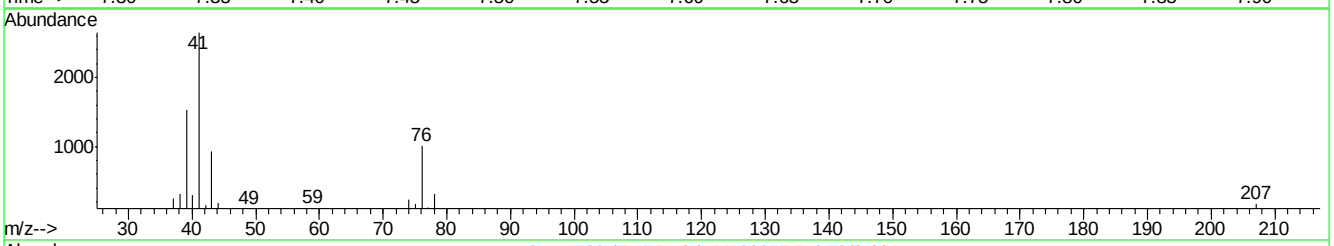
Quantitation Report (Qedit)

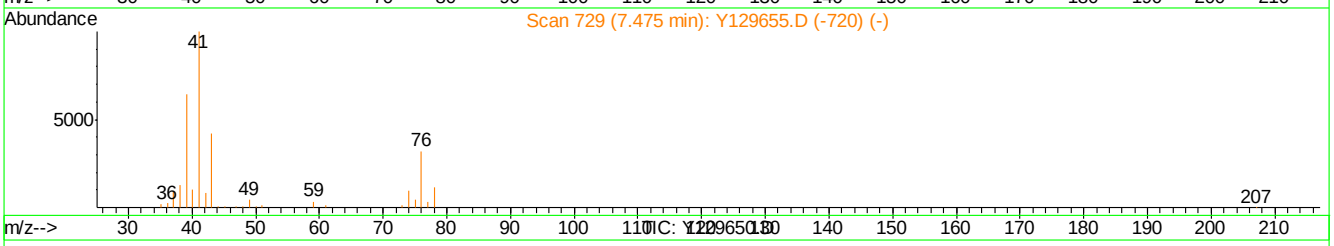
Data File : C:\MSDChem\1\DATA\Y129650.D Vial: 3
Acq On : 7 Jan 2013 12:25 pm Operator: ROBERTS
Sample : IC5578-5 Inst : MSY
Misc : MS40825,VY5578,5.0,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jan 09 09:46:48 2013 Results File: MY5578.RES

Method : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Jan 08 14:48:09 2013
Response via : Multiple Level Calibration







(28) methyl acetate

7.47min 2.76ug/L

response 433

Ion	Exp%	Act%
74.00	100	100
43.00	467.50	1004.85#
59.00	34.60	0.00#
0.00	0.00	0.00

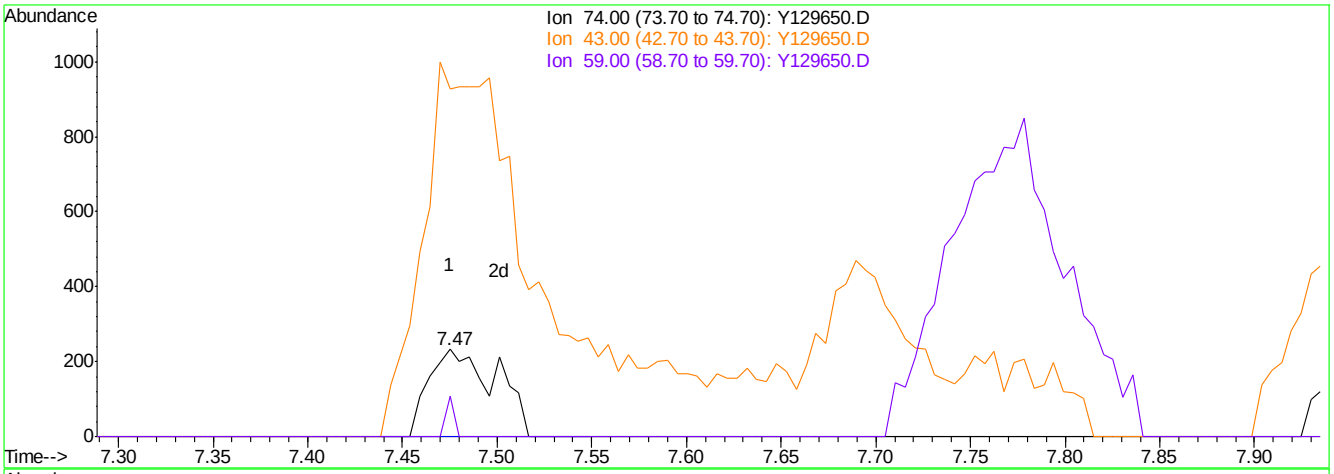
Y129650.D MY5578.M Wed Jan 09 09:47:01 2013 RPT1

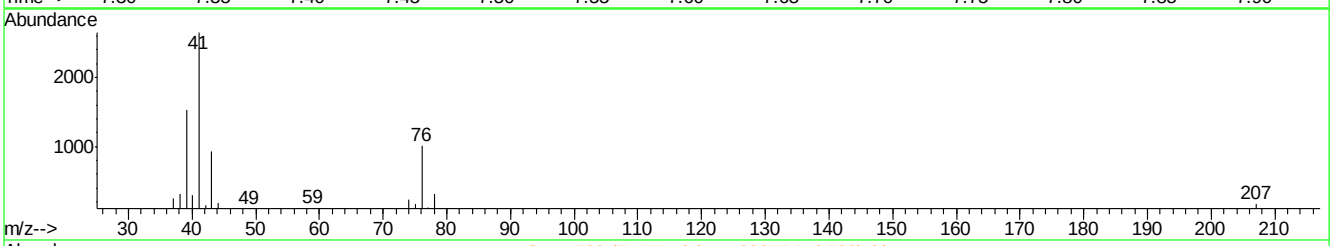
Quantitation Report (Qedit)

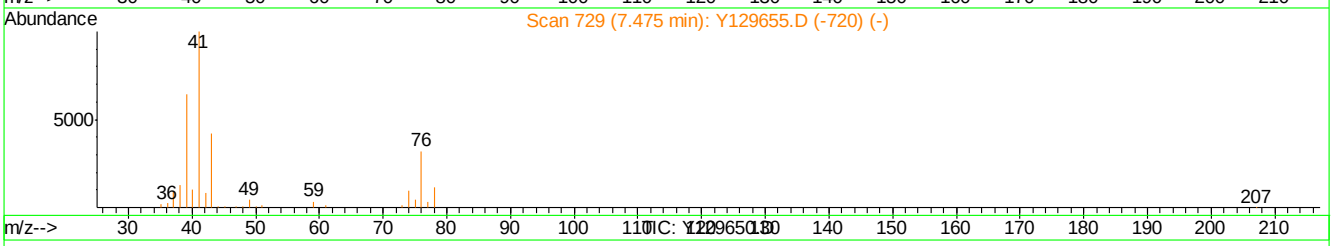
Data File : C:\MSDChem\1\DATA\Y129650.D Vial: 3
Acq On : 7 Jan 2013 12:25 pm Operator: ROBERTS
Sample : IC5578-5 Inst : MSY
Misc : MS40825,VY5578,5.0,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Time: Jan 09 09:46:48 2013 Results File: MY5578.RES

Method : C:\MSDCHEM\1\METHODS\MY5578.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Jan 08 14:48:09 2013
Response via : Multiple Level Calibration







(28) methyl acetate

7.47min 3.69ug/L m

response 579

Ion	Exp%	Act%
74.00	100	100
43.00	467.50	751.47#
59.00	34.60	0.00#
0.00	0.00	0.00

Y129650.D MY5578.M Wed Jan 09 09:47:07 2013 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129651.D
Acq On : 7 Jan 2013 12:55 pm
Operator : ROBERTS
Sample : IC5578-2
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 11 16:58:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	52490	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	134691	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	193936	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	154409	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	76886	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.92	113	4170	2.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 4.34%#			
47) 1,2-dichloroethane-d4 (s)	10.34	65	4589	2.27	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 4.54%#			
76) toluene-d8 (s)	12.34	98	15174	2.27	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 4.54%#			
100) 4-bromofluorobenzene (s)	14.97	95	4853	3.00	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 6.00%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.49	88	388	37.39	ug/L #	87
3) tertiary butyl alcohol	7.77	59	1085	8.97	ug/L	60
5) freon 141b	6.52	81	184899	190.64	ug/L	99
6) freon 142b	4.45	65	209364	182.27	ug/L #	89
7) freon 143a	3.84	69	141583	183.18	ug/L #	97
8) chlorodifluoromethane	4.19	51	1951	1.90	ug/L	84
9) dichlorodifluoromethane	4.15	85	2491	1.79	ug/L	91
10) chloromethane	4.51	50	3284	2.22	ug/L	94
11) vinyl chloride	4.77	62	2522	1.91	ug/L	85
12) bromomethane	5.47	94	1700	2.03	ug/L	72
13) chloroethane	5.64	64	1050	1.74	ug/L	70
15) trichlorofluoromethane	6.09	101	3007	1.83	ug/L	83
16) ethyl ether	6.50	74	1420	2.12	ug/L #	1
17) 2-chloropropane	6.73	63	584	1.49	ug/L #	35
18) acrolein	6.82	56	355979	1868.09	ug/L	99
21) allyl chloride	7.49	76	1097	1.75	ug/L	83
23) iodomethane	7.24	142	4378	2.12	ug/L	98
25) carbon disulfide	7.35	76	5941	1.80	ug/L	97
27) methylene chloride	7.69	49	3258	2.02	ug/L	95
29) methyl tert butyl ether	7.97	73	6882	2.08	ug/L	99
30) trans-1,2-dichloroethene	8.03	61	2742	1.96	ug/L	95
31) di-isopropyl ether	8.54	45	7670	1.91	ug/L	97
32) ethyl tert-butyl ether	9.00	59	7515	1.88	ug/L	98
34) 1,1-dichloroethane	8.61	63	3657	1.96	ug/L	95
35) chloroprene	8.70	53	3079	1.99	ug/L	98
36) acrylonitrile	8.08	53	2953	9.67	ug/L	89
39) 2,2-dichloropropane	9.33	77	2901	1.88	ug/L	98
40) cis-1,2-dichloroethene	9.35	96	2653	2.07	ug/L	93
41) propionitrile	9.49	54	2336	18.56	ug/L	51
42) bromochloromethane	9.67	130	1577	1.99	ug/L	95
44) chloroform	9.71	83	3978	1.97	ug/L	98
45) tert-Butyl Formate	9.72	59	1645	1.90	ug/L #	82
50) 1,1,1-trichloroethane	9.93	97	2988	1.88	ug/L	81

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129651.D
Acq On : 7 Jan 2013 12:55 pm
Operator : ROBERTS
Sample : IC5578-2
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 11 16:58:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Cyclohexane	9.97	84	2811	2.01 ug/L #	92
52) 2,2,4-trimethylpentane	10.31	57	7563	1.94 ug/L	98
53) tert-amyl methyl ether	10.38	73	7573	2.04 ug/L	100
57) carbon tetrachloride	10.13	117	2759	2.01 ug/L	87
58) 1,1-dichloropropene	10.11	75	2572	1.99 ug/L	95
59) hexane	8.27	57	2623	1.98 ug/L	95
60) Tert Amyl Alcohol	10.28	73	674	11.19 ug/L #	68
61) benzene	10.38	78	8914	2.10 ug/L	96
62) heptane	10.48	57	1465	1.94 ug/L	87
64) 1,2-dichloroethane	10.43	62	2558	2.00 ug/L	89
65) trichloroethene	11.08	95	2047	1.96 ug/L	93
67) 2-nitropropane	11.89	41	660	2.34 ug/L #	33
68) 2-chloroethyl vinyl ether	11.87	63	2912	9.13 ug/L	95
69) methyl methacrylate	11.35	69	1305	2.01 ug/L #	67
70) 1,2-dichloropropane	11.36	63	2208	2.11 ug/L	89
71) methylcyclohexane	11.25	83	3272	1.96 ug/L	97
73) dibromomethane	11.53	93	1417	2.19 ug/L	87
74) bromodichloromethane	11.65	83	3003	1.97 ug/L	96
75) cis-1,3-dichloropropene	12.08	75	3482	1.96 ug/L	92
77) 4-methyl-2-pentanone	12.18	58	648	1.76 ug/L #	50
78) toluene	12.42	91	9078	2.06 ug/L	96
79) 3-methyl-1-butanol	12.21	70	1109	35.91 ug/L	88
80) trans-1,3-dichloropropene	12.65	75	3217	2.08 ug/L	94
81) ethyl methacrylate	12.60	69	2496	2.00 ug/L	91
82) 1,1,2-trichloroethane	12.86	83	1646	2.15 ug/L	95
85) tetrachloroethene	12.98	166	2275	2.04 ug/L	90
86) 1,3-dichloropropane	13.03	76	3159	2.23 ug/L	93
87) butyl acetate	13.06	56	1120	2.01 ug/L	89
88) dibromochloromethane	13.29	129	2360	2.01 ug/L	94
89) 1,2-dibromoethane	13.44	107	1986	2.15 ug/L	84
90) 3,3-Dimethyl-1-Butanol	13.17	57	1980	20.48 ug/L #	98
91) chlorobenzene	13.86	112	5694	2.05 ug/L	97
92) 1,1,1,2-tetrachloroethane	13.92	131	2183	2.09 ug/L	96
93) ethylbenzene	13.90	91	9392	2.11 ug/L	99
94) m,p-xylene	14.00	106	7229	4.19 ug/L	95
95) o-xylene	14.42	91	7864	2.06 ug/L	98
96) styrene	14.44	104	5889	2.02 ug/L	97
97) bromoform	14.73	173	1582	2.02 ug/L	97
99) isopropylbenzene	14.74	105	8814	1.95 ug/L	98
101) bromobenzene	15.16	156	2618	2.01 ug/L	93
102) cyclohexanone	14.96	55	2955	19.35 ug/L	92
103) 1,1,2,2-tetrachloroethane	15.09	83	2475	2.02 ug/L	92
104) trans-1,4-dichloro-2-buten	15.14	53	513	1.89 ug/L	81
105) 1,2,3-trichloropropane	15.17	110	662	2.29 ug/L	90
106) n-propylbenzene	15.14	91	10248	1.97 ug/L	99
107) 4-Ethyltoluene	15.25	105	8693	1.97 ug/L #	95
108) 2-chlorotoluene	15.31	126	2320	2.09 ug/L #	83
109) 4-chlorotoluene	15.41	91	7251	2.12 ug/L	99
110) 1,3,5-trimethylbenzene	15.29	105	7593	2.02 ug/L	98
111) tert-butylbenzene	15.63	119	6370	2.02 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129651.D
Acq On : 7 Jan 2013 12:55 pm
Operator : ROBERTS
Sample : IC5578-2
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 11 16:58:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

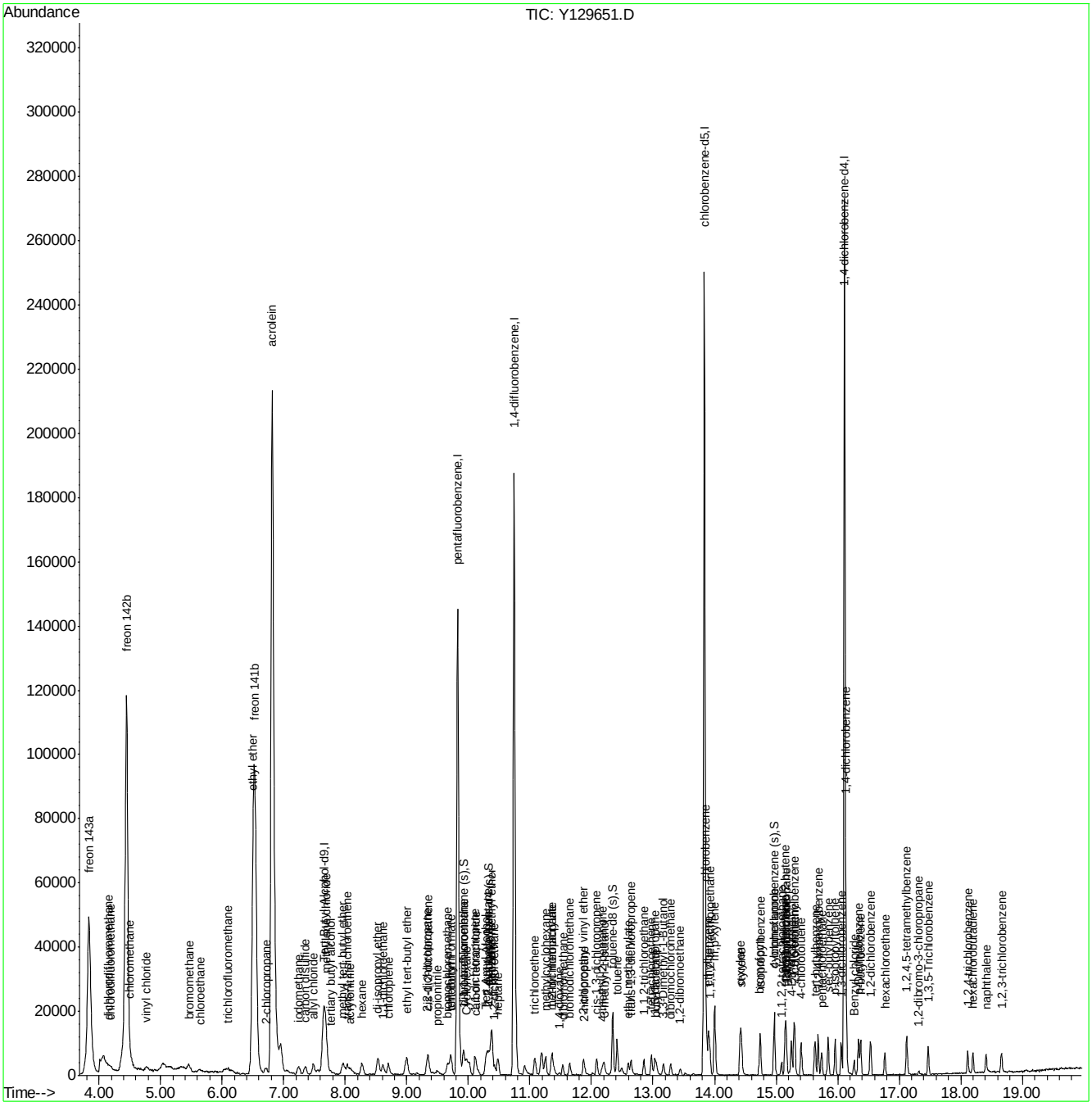
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
112) pentachloroethane	15.74	167	1753	2.05	ug/L	96
113) 1,2,4-trimethylbenzene	15.68	105	7842	2.04	ug/L	94
114) sec-butylbenzene	15.84	105	9503	2.02	ug/L	98
115) 1,3-dichlorobenzene	16.06	146	4779	2.02	ug/L	96
116) p-isopropyltoluene	15.95	119	7574	1.96	ug/L	95
117) 1,4-dichlorobenzene	16.14	146	4817	2.04	ug/L	97
118) 1,2-dichlorobenzene	16.53	146	4702	2.07	ug/L	93
119) n-butylbenzene	16.37	134	1613	1.90	ug/L	90
120) p-Diethylbenzene	16.33	119	4353	1.88	ug/L	96
121) 1,2-dibromo-3-chloropropan	17.32	157	482	1.97	ug/L	92
122) 1,3,5-Trichlorobenzene	17.47	180	3498	1.91	ug/L	97
123) 1,2,4-trichlorobenzene	18.11	180	2859	1.80	ug/L	99
124) 1,2,4,5-tetramethylbenzene	17.12	119	7458	1.91	ug/L	98
125) hexachlorobutadiene	18.20	225	1780	2.00	ug/L	86
126) naphthalene	18.41	128	5884	1.86	ug/L	97
127) 1,2,3-trichlorobenzene	18.66	180	2574	1.83	ug/L	97
128) hexachloroethane	16.77	119	1600	1.90	ug/L	99
129) Benzyl chloride	16.26	91	4234	1.91	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129651.D
Acq On : 7 Jan 2013 12:55 pm
Operator : ROBERTS
Sample : IC5578-2
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 11 16:58:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129652.D
Acq On : 7 Jan 2013 1:24 pm
Operator : ROBERTS
Sample : IC5578-1
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 09 09:19:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	49467	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	137657	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	196515	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	156193	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.12	152	75442	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	3222	1.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 3.28%#			
47) 1,2-dichloroethane-d4 (s)	10.35	65	3382	1.64	ug/L	0.01
Spiked Amount 50.000	Range 70 - 122		Recovery = 3.28%#			
76) toluene-d8 (s)	12.34	98	11632	1.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 3.44%#			
100) 4-bromofluorobenzene (s)	14.97	95	3474	2.19	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 4.38%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.48	88	453	46.32	ug/L #	35
3) tertiary butyl alcohol	7.76	59	448	3.93	ug/L	67
5) freon 141b	6.53	81	92483	93.30	ug/L	99
6) freon 142b	4.44	65	105489	89.86	ug/L #	90
7) freon 143a	3.83	69	69787	88.35	ug/L #	98
10) chloromethane	4.51	50	1844	1.22	ug/L	73
11) vinyl chloride	4.78	62	1235	0.92	ug/L	87
12) bromomethane	5.46	94	920	1.07	ug/L	88
16) ethyl ether	6.49	74	898	1.31	ug/L #	1
18) acrolein	6.82	56	176094	904.19	ug/L	99
21) allyl chloride	7.49	76	598	0.94	ug/L #	83
23) iodomethane	7.25	142	2342	1.11	ug/L	97
25) carbon disulfide	7.35	76	3320	0.98	ug/L	84
29) methyl tert butyl ether	7.97	73	3545	1.05	ug/L	94
30) trans-1,2-dichloroethene	8.03	61	1410	0.99	ug/L	92
34) 1,1-dichloroethane	8.62	63	1966	1.03	ug/L	86
36) acrylonitrile	8.09	53	1403	4.50	ug/L #	71
39) 2,2-dichloropropane	9.33	77	1633	1.03	ug/L	94
40) cis-1,2-dichloroethene	9.35	96	1428	1.09	ug/L	85
42) bromochloromethane	9.66	130	760	0.94	ug/L	96
44) chloroform	9.70	83	2136	1.03	ug/L	93
50) 1,1,1-trichloroethane	9.94	97	1655	1.02	ug/L	85
51) Cyclohexane	9.98	84	1536	1.08	ug/L #	89
57) carbon tetrachloride	10.13	117	1427	1.02	ug/L	77
58) 1,1-dichloropropene	10.11	75	1345	1.03	ug/L	99
61) benzene	10.38	78	4949	1.15	ug/L	100
64) 1,2-dichloroethane	10.43	62	1375	1.06	ug/L	85
65) trichloroethene	11.08	95	1098	1.04	ug/L	92
70) 1,2-dichloropropane	11.36	63	1137	1.07	ug/L	93
73) dibromomethane	11.53	93	762	1.16	ug/L	92
74) bromodichloromethane	11.64	83	1635	1.06	ug/L	91
75) cis-1,3-dichloropropene	12.09	75	1877	1.04	ug/L	92
78) toluene	12.42	91	4801	1.08	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129652.D
Acq On : 7 Jan 2013 1:24 pm
Operator : ROBERTS
Sample : IC5578-1
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 09 09:19:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) trans-1,3-dichloropropene	12.65	75	1611	1.03 ug/L	92
81) ethyl methacrylate	12.60	69	1229	0.97 ug/L	82
82) 1,1,2-trichloroethane	12.85	83	801	1.03 ug/L	85
85) tetrachloroethene	12.97	166	1191	1.06 ug/L	80
86) 1,3-dichloropropane	13.03	76	1574	1.10 ug/L	99
88) dibromochloromethane	13.29	129	1239	1.04 ug/L	95
89) 1,2-dibromoethane	13.44	107	968	1.03 ug/L	78
91) chlorobenzene	13.87	112	3084	1.10 ug/L	87
92) 1,1,1,2-tetrachloroethane	13.92	131	1210	1.15 ug/L	92
93) ethylbenzene	13.90	91	4838	1.07 ug/L	98
94) m,p-xylene	14.00	106	3802	2.18 ug/L	86
95) o-xylene	14.42	91	4215	1.09 ug/L	93
96) styrene	14.44	104	3086	1.05 ug/L	96
97) bromoform	14.73	173	805	1.02 ug/L	84
99) isopropylbenzene	14.75	105	4759	1.07 ug/L	94
101) bromobenzene	15.17	156	1382	1.08 ug/L	89
102) cyclohexanone	14.96	55	1695	11.31 ug/L	81
103) 1,1,2,2-tetrachloroethane	15.09	83	1315	1.10 ug/L	93
105) 1,2,3-trichloropropane	15.16	110	304	1.07 ug/L #	33
106) n-propylbenzene	15.15	91	5724	1.12 ug/L	95
107) 4-Ethyltoluene	15.25	105	4987	1.15 ug/L	96
109) 4-chlorotoluene	15.41	91	3892	1.16 ug/L	100
110) 1,3,5-trimethylbenzene	15.29	105	4310	1.17 ug/L	96
111) tert-butylbenzene	15.63	119	3413	1.10 ug/L	94
112) pentachloroethane	15.74	167	925	1.10 ug/L	89
113) 1,2,4-trimethylbenzene	15.69	105	4293	1.14 ug/L	95
114) sec-butylbenzene	15.84	105	5248	1.14 ug/L	97
115) 1,3-dichlorobenzene	16.06	146	2574	1.11 ug/L	97
116) p-isopropyltoluene	15.96	119	4130	1.09 ug/L	97
117) 1,4-dichlorobenzene	16.14	146	2717	1.17 ug/L	95
118) 1,2-dichlorobenzene	16.53	146	2429	1.09 ug/L	86
119) n-butylbenzene	16.37	134	877	1.05 ug/L #	69
120) p-Diethylbenzene	16.34	119	2439	1.07 ug/L	96
121) 1,2-dibromo-3-chloropropan	17.32	157	225	0.94 ug/L	78
122) 1,3,5-Trichlorobenzene	17.47	180	1791	1.00 ug/L	97
123) 1,2,4-trichlorobenzene	18.11	180	1477	0.95 ug/L	96
124) 1,2,4,5-tetramethylbenzene	17.12	119	4151	1.09 ug/L	99
125) hexachlorobutadiene	18.20	225	850	0.97 ug/L	88
126) naphthalene	18.41	128	2974	0.96 ug/L	95
127) 1,2,3-trichlorobenzene	18.67	180	1324	0.96 ug/L	97
128) hexachloroethane	16.76	119	861	1.04 ug/L	93

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

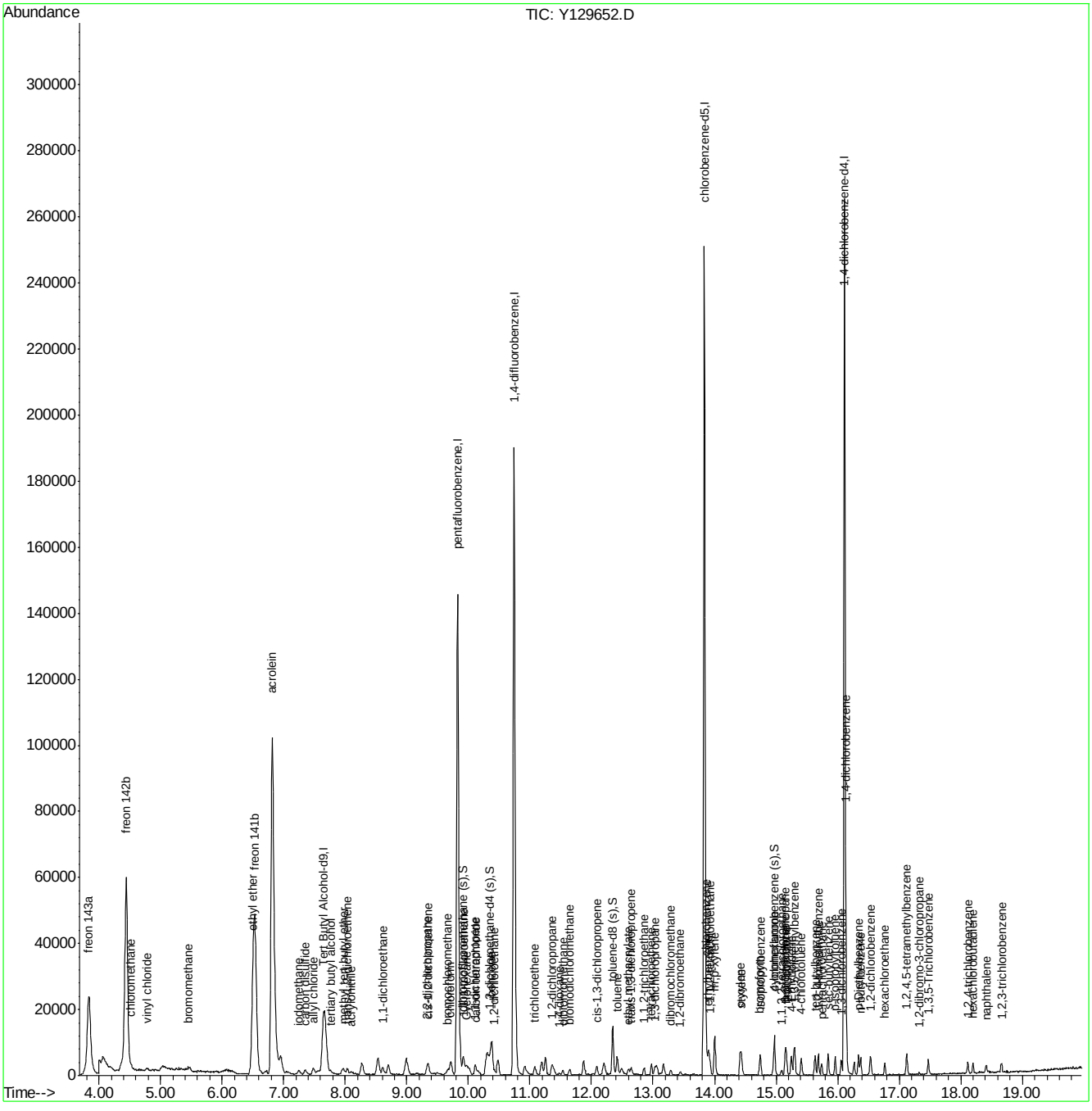
7.7.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129652.D
Acq On : 7 Jan 2013 1:24 pm
Operator : ROBERTS
Sample : IC5578-1
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 09 09:19:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129653.D
Acq On : 7 Jan 2013 1:53 pm
Operator : ROBERTS
Sample : IC5578-0.5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 09:21:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	45282	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	127660	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	185006	50.00	ug/L	0.00
84) chlorobenzene-d5	13.84	117	148221	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.12	152	70171	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	2430	1.34	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 2.68%#			
47) 1,2-dichloroethane-d4 (s)	10.34	65	2615	1.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 2.74%#			
76) toluene-d8 (s)	12.34	98	8962	1.41	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 2.82%#			
100) 4-bromofluorobenzene (s)	14.97	95	3134	2.12	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 4.24%#			

Target Compounds						Qvalue
23) iodomethane	7.24	142	879	0.45	ug/L	78
25) carbon disulfide	7.35	76	1483	0.47	ug/L	83
29) methyl tert butyl ether	7.96	73	1566	0.50	ug/L	78
30) trans-1,2-dichloroethene	8.04	61	553	0.42	ug/L #	78
34) 1,1-dichloroethane	8.62	63	867	0.49	ug/L	87
39) 2,2-dichloropropane	9.33	77	707	0.48	ug/L #	47
40) cis-1,2-dichloroethene	9.35	96	690	0.57	ug/L	95
44) chloroform	9.71	83	1109	0.58	ug/L	87
50) 1,1,1-trichloroethane	9.93	97	735	0.49	ug/L #	68
51) Cyclohexane	9.98	84	596	0.45	ug/L #	73
57) carbon tetrachloride	10.12	117	597	0.46	ug/L	78
58) 1,1-dichloropropene	10.10	75	548	0.44	ug/L #	39
61) benzene	10.38	78	2340	0.58	ug/L	95
64) 1,2-dichloroethane	10.43	62	587	0.48	ug/L #	47
65) trichloroethene	11.07	95	462	0.46	ug/L	79
70) 1,2-dichloropropane	11.36	63	463	0.46	ug/L	88
74) bromodichloromethane	11.65	83	705	0.49	ug/L	92
75) cis-1,3-dichloropropene	12.09	75	694	0.41	ug/L	81
78) toluene	12.42	91	2577	0.61	ug/L	98
80) trans-1,3-dichloropropene	12.65	75	630	0.43	ug/L	70
82) 1,1,2-trichloroethane	12.86	83	301	0.41	ug/L	86
85) tetrachloroethene	12.98	166	476	0.45	ug/L	94
86) 1,3-dichloropropane	13.03	76	637	0.47	ug/L	82
88) dibromochloromethane	13.30	129	512	0.45	ug/L	79
89) 1,2-dibromoethane	13.44	107	338	0.38	ug/L	80
91) chlorobenzene	13.87	112	1385	0.52	ug/L	79
92) 1,1,1,2-tetrachloroethane	13.92	131	465	0.46	ug/L	86
93) ethylbenzene	13.90	91	2319	0.54	ug/L	90
94) m,p-xylene	14.00	106	1867	1.13	ug/L	80
95) o-xylene	14.42	91	2057	0.56	ug/L	83
96) styrene	14.44	104	1385	0.49	ug/L	89
97) bromoform	14.72	173	318	0.42	ug/L	82
99) isopropylbenzene	14.75	105	2292	0.56	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129653.D
Acq On : 7 Jan 2013 1:53 pm
Operator : ROBERTS
Sample : IC5578-0.5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 09:21:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) bromobenzene	15.16	156	664	0.56	ug/L #	75
102) cyclohexanone	14.97	55	671	4.81	ug/L	82
103) 1,1,2,2-tetrachloroethane	15.09	83	609	0.55	ug/L	84
106) n-propylbenzene	15.15	91	2568	0.54	ug/L	96
120) p-Diethylbenzene	16.34	119	1211	0.57	ug/L	98

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

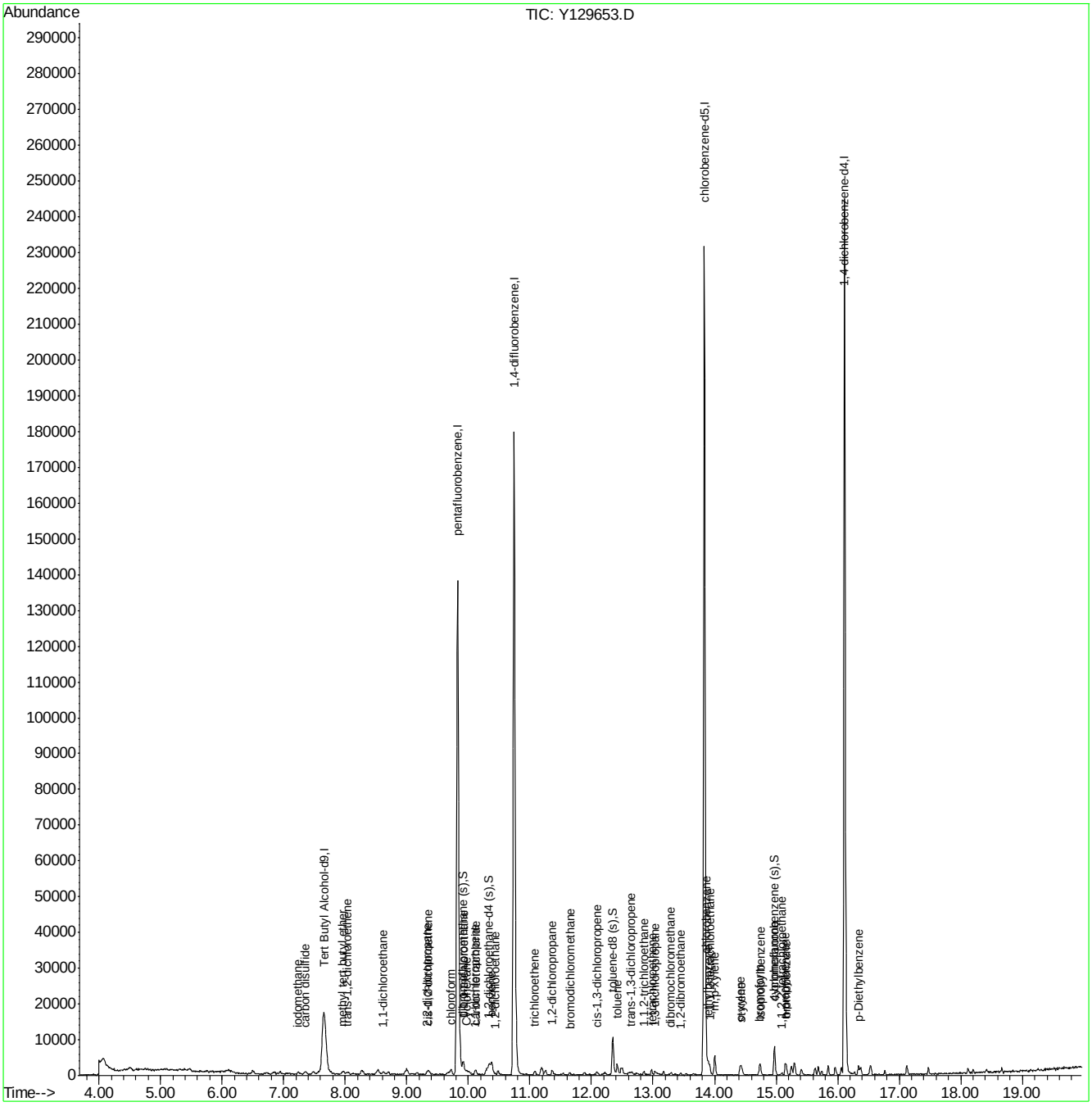
7.7.28

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129653.D
Acq On : 7 Jan 2013 1:53 pm
Operator : ROBERTS
Sample : IC5578-0.5
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 09:21:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129654.D
Acq On : 7 Jan 2013 2:22 pm
Operator : ROBERTS
Sample : IC5578-20
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 11 16:58:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	48002	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	118436	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	172475	50.00	ug/L	0.00
84) chlorobenzene-d5	13.84	117	140094	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	67968	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	49802	54.50	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.00%			
47) 1,2-dichloroethane-d4 (s)	10.34	65	51869	56.15	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 112.30%			
76) toluene-d8 (s)	12.34	98	166749	55.62	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 111.24%			
100) 4-bromofluorobenzene (s)	14.96	95	63944	56.05	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 112.10%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.48	88	5176	545.41	ug/L	95
3) tertiary butyl alcohol	7.77	59	12659	114.39	ug/L	90
5) freon 141b	6.52	81	17654	20.70	ug/L	98
6) freon 142b	4.44	65	21207	21.00	ug/L #	96
7) freon 143a	3.83	69	13755	20.26	ug/L #	99
8) chlorodifluoromethane	4.19	51	19536	21.63	ug/L	97
9) dichlorodifluoromethane	4.16	85	25692	20.51	ug/L	99
10) chloromethane	4.51	50	24769	19.08	ug/L	98
11) vinyl chloride	4.78	62	23051	19.89	ug/L	99
12) bromomethane	5.46	94	15349	20.72	ug/L	98
13) chloroethane	5.64	64	10821	20.39	ug/L	99
15) trichlorofluoromethane	6.08	101	29629	20.55	ug/L	98
16) ethyl ether	6.49	74	11200	19.05	ug/L	97
17) 2-chloropropane	6.71	63	7446	21.57	ug/L	97
18) acrolein	6.82	56	32848	192.14	ug/L	98
19) 1,1-dichloroethene	6.94	61	27592	21.38	ug/L	98
20) acetone	7.04	58	1591	21.27	ug/L	97
21) allyl chloride	7.48	76	11807	21.48	ug/L	98
22) acetonitrile	7.54	40	7783	206.61	ug/L	90
23) iodomethane	7.24	142	36797	20.29	ug/L	97
24) iso-butyl alcohol	10.15	41	7247	230.99	ug/L	91
25) carbon disulfide	7.35	76	62426	21.51	ug/L	99
26) 1-chloropropane	7.70	63	1518	21.55	ug/L	93
27) methylene chloride	7.69	49	27378	20.81	ug/L	97
28) methyl acetate	7.48	74	2742	20.70	ug/L #	86
29) methyl tert butyl ether	7.97	73	60183	20.65	ug/L	98
30) trans-1,2-dichloroethene	8.03	61	27138	22.11	ug/L	97
31) di-isopropyl ether	8.53	45	67079	20.98	ug/L	98
32) ethyl tert-butyl ether	9.00	59	67246	21.14	ug/L	98
33) 2-butanone	9.33	72	2247	23.00	ug/L	95
34) 1,1-dichloroethane	8.61	63	35196	21.42	ug/L	98
35) chloroprene	8.69	53	26966	21.60	ug/L	96
36) acrylonitrile	8.06	53	29391	109.48	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129654.D
Acq On : 7 Jan 2013 2:22 pm
Operator : ROBERTS
Sample : IC5578-20
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 11 16:58:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.59	86	2452	19.40	ug/L		75
38) ethyl acetate	9.32	45	2232	20.77	ug/L		70
39) 2,2-dichloropropane	9.33	77	29584	21.78	ug/L		97
40) cis-1,2-dichloroethene	9.35	96	22816	20.28	ug/L		98
41) propionitrile	9.47	54	25571	231.06	ug/L		95
42) bromochloromethane	9.67	130	14667	21.08	ug/L		99
43) tetrahydrofuran	9.69	72	2523	22.16	ug/L		98
44) chloroform	9.71	83	37559	21.15	ug/L		100
45) tert-Butyl Formate	9.73	59	15140	20.99	ug/L		98
48) freon 113	6.87	151	13734	21.53	ug/L		97
49) methacrylonitrile	9.62	67	7339	21.40	ug/L		99
50) 1,1,1-trichloroethane	9.94	97	30547	21.81	ug/L		98
51) Cyclohexane	9.98	84	26587	21.63	ug/L	#	98
52) 2,2,4-trimethylpentane	10.31	57	69348	22.25	ug/L		98
53) tert-amyl methyl ether	10.37	73	61638	21.21	ug/L		94
55) epichlorohydrin	12.01	57	9012	113.27	ug/L		98
56) n-butyl alcohol	10.90	56	31124	1145.25	ug/L		96
57) carbon tetrachloride	10.12	117	26866	21.97	ug/L		96
58) 1,1-dichloropropene	10.11	75	25202	21.92	ug/L		99
59) hexane	8.27	57	22532	21.54	ug/L		95
60) Tert Amyl Alcohol	10.27	73	5680	101.66	ug/L	#	95
61) benzene	10.38	78	77056	20.40	ug/L		99
62) heptane	10.48	57	13418	21.90	ug/L		98
63) isopropyl acetate	10.29	61	7677	21.97	ug/L		98
64) 1,2-dichloroethane	10.42	62	24585	21.61	ug/L		96
65) trichloroethene	11.07	95	20015	21.54	ug/L		98
66) ethyl acrylate	11.08	55	19754	81.42	ug/L		59
67) 2-nitropropane	11.88	41	5579	22.26	ug/L		86
68) 2-chloroethyl vinyl ether	11.86	63	27869	106.88	ug/L		98
69) methyl methacrylate	11.34	69	12795	22.11	ug/L		89
70) 1,2-dichloropropane	11.36	63	20141	21.59	ug/L		98
71) methylcyclohexane	11.26	83	29530	21.97	ug/L		95
72) Tert-amyl ethyl ether	11.19	59	49058	713.06	ug/L	#	35
73) dibromomethane	11.53	93	12882	21.48	ug/L		99
74) bromodichloromethane	11.64	83	29374	21.70	ug/L		98
75) cis-1,3-dichloropropene	12.08	75	34572	21.89	ug/L		99
77) 4-methyl-2-pentanone	12.17	58	7493	22.89	ug/L		92
78) toluene	12.41	91	79797	20.37	ug/L		97
79) 3-methyl-1-butanol	12.19	70	11767	464.19	ug/L		99
80) trans-1,3-dichloropropene	12.64	75	30320	22.01	ug/L		97
81) ethyl methacrylate	12.59	69	24149	21.76	ug/L		96
82) 1,1,2-trichloroethane	12.85	83	14988	22.06	ug/L		97
83) 2-hexanone	13.00	58	7169	23.25	ug/L		99
85) tetrachloroethene	12.98	166	21569	21.34	ug/L		95
86) 1,3-dichloropropane	13.02	76	27835	21.69	ug/L		99
87) butyl acetate	13.05	56	11539	22.82	ug/L		99
88) dibromochloromethane	13.29	129	23670	22.23	ug/L		99
89) 1,2-dibromoethane	13.44	107	18726	22.30	ug/L		94
90) 3,3-Dimethyl-1-Butanol	13.17	57	19825	225.98	ug/L		99
91) chlorobenzene	13.86	112	52802	20.91	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129654.D
Acq On : 7 Jan 2013 2:22 pm
Operator : ROBERTS
Sample : IC5578-20
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 11 16:58:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

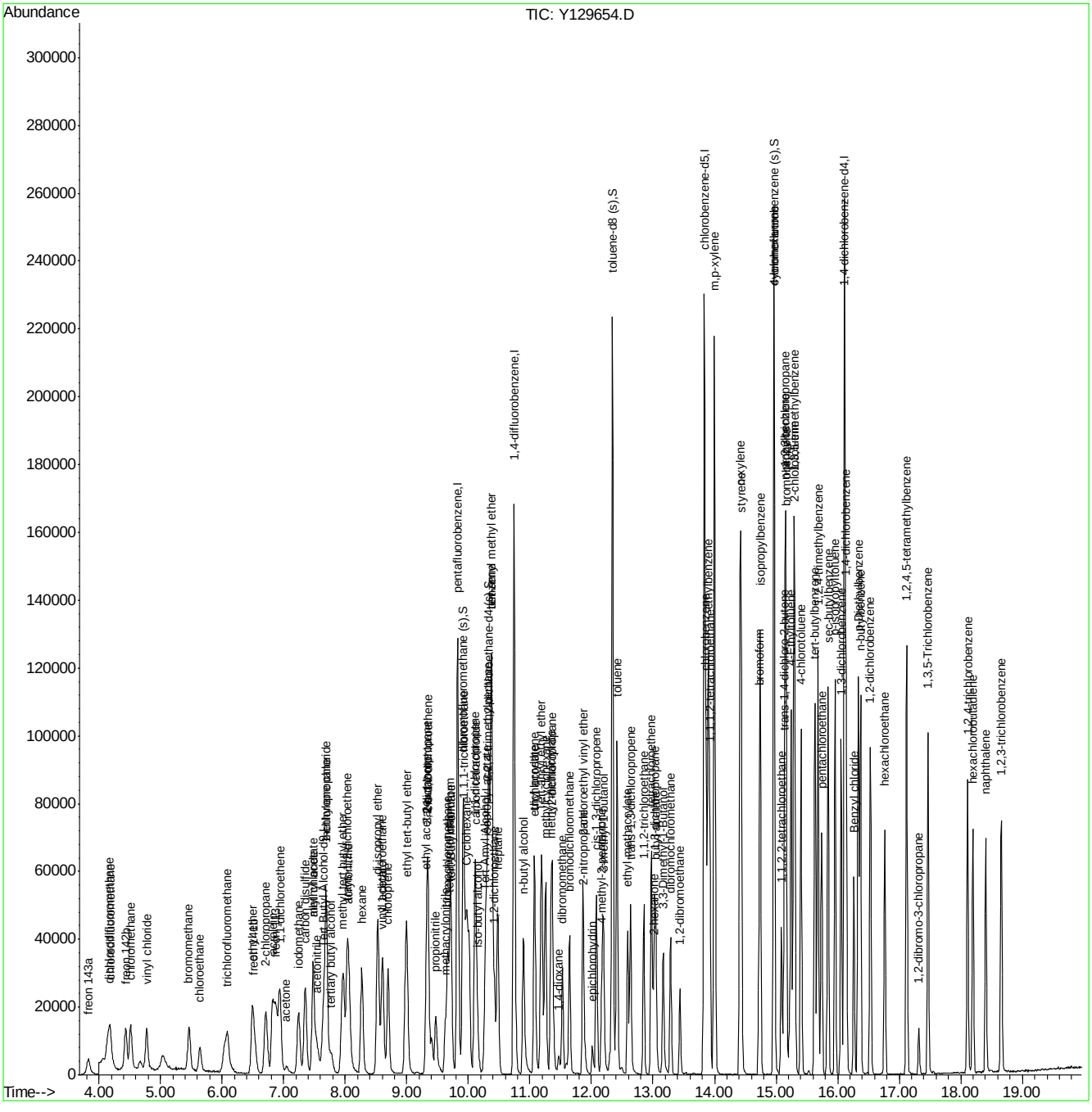
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	20584	21.73	ug/L	98
93) ethylbenzene	13.90	91	86165	21.29	ug/L	99
94) m,p-xylene	14.00	106	66562	42.51	ug/L	98
95) o-xylene	14.42	91	73263	21.16	ug/L	100
96) styrene	14.43	104	57789	21.84	ug/L	99
97) bromoform	14.72	173	15714	22.12	ug/L	98
99) isopropylbenzene	14.74	105	85248	21.35	ug/L	97
101) bromobenzene	15.16	156	24409	21.23	ug/L	99
102) cyclohexanone	14.96	55	32315	240.27	ug/L	95
103) 1,1,2,2-tetrachloroethane	15.09	83	23094	21.36	ug/L	100
104) trans-1,4-dichloro-2-buten	15.13	53	5665	22.08	ug/L	92
105) 1,2,3-trichloropropane	15.16	110	5469	21.36	ug/L	99
106) n-propylbenzene	15.14	91	97832	21.28	ug/L	99
107) 4-Ethyltoluene	15.24	105	75980	19.99	ug/L	100
108) 2-chlorotoluene	15.30	126	20210	21.20	ug/L	88
109) 4-chlorotoluene	15.40	91	62628	20.76	ug/L	99
110) 1,3,5-trimethylbenzene	15.29	105	71381	21.51	ug/L	99
111) tert-butylbenzene	15.63	119	59471	21.30	ug/L	98
112) pentachloroethane	15.74	167	16156	21.40	ug/L	98
113) 1,2,4-trimethylbenzene	15.68	105	72328	21.26	ug/L	96
114) sec-butylbenzene	15.84	105	87340	21.03	ug/L	100
115) 1,3-dichlorobenzene	16.05	146	43935	21.03	ug/L	99
116) p-isopropyltoluene	15.96	119	73419	21.44	ug/L	99
117) 1,4-dichlorobenzene	16.14	146	43734	20.95	ug/L	99
118) 1,2-dichlorobenzene	16.53	146	42037	20.93	ug/L	97
119) n-butylbenzene	16.37	134	17031	22.66	ug/L	95
120) p-Diethylbenzene	16.34	119	41511	20.27	ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	4827	22.30	ug/L	95
122) 1,3,5-Trichlorobenzene	17.46	180	35147	21.72	ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	30447	21.65	ug/L	97
124) 1,2,4,5-tetramethylbenzene	17.12	119	69575	20.20	ug/L	99
125) hexachlorobutadiene	18.20	225	17356	22.06	ug/L	99
126) naphthalene	18.41	128	61672	22.07	ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	27247	21.91	ug/L	97
128) hexachloroethane	16.76	119	16023	21.51	ug/L	100
129) Benzyl chloride	16.26	91	43720	22.35	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129654.D
Acq On : 7 Jan 2013 2:22 pm
Operator : ROBERTS
Sample : IC5578-20
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 11 16:58:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129655.D
Acq On : 7 Jan 2013 2:51 pm
Operator : ROBERTS
Sample : ICC5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 11 16:58:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	42369	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	111299	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	162765	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	134947	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	65829	50.00	ug/L	0.00

System Monitoring Compounds

46) dibromofluoromethane (s)	9.91	113	47441	55.25	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 110.50%			
47) 1,2-dichloroethane-d4 (s)	10.34	65	49189	56.67	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 113.34%			
76) toluene-d8 (s)	12.34	98	155027	54.80	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 109.60%			
100) 4-bromofluorobenzene (s)	14.96	95	59589	53.93	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 107.86%			

Target Compounds

						Qvalue
2) 1,4-dioxane	11.47	88	11171	1333.61	ug/L	100
3) tertiary butyl alcohol	7.77	59	25120	257.17	ug/L	100
5) freon 141b	6.52	81	39256	48.98	ug/L	100
6) freon 142b	4.44	65	46962	49.47	ug/L	100
7) freon 143a	3.83	69	31123	48.77	ug/L	100
8) chlorodifluoromethane	4.19	51	42602	50.20	ug/L	100
9) dichlorodifluoromethane	4.15	85	59187	50.28	ug/L	100
10) chloromethane	4.51	50	56213	46.08	ug/L	100
11) vinyl chloride	4.78	62	53374	49.00	ug/L	100
12) bromomethane	5.46	94	35025	50.32	ug/L	100
13) chloroethane	5.64	64	25333	50.79	ug/L	100
15) trichlorofluoromethane	6.08	101	67466	49.79	ug/L	100
16) ethyl ether	6.49	74	27030	48.92	ug/L	100
17) 2-chloropropane	6.71	63	16430	50.66	ug/L	100
18) acrolein	6.82	56	79653	495.78	ug/L	100
19) 1,1-dichloroethene	6.94	61	59832	49.33	ug/L	100
20) acetone	7.05	58	3504	49.86	ug/L	100
21) allyl chloride	7.48	76	26630	51.54	ug/L	100
22) acetonitrile	7.53	40	20341	574.61	ug/L	100
23) iodomethane	7.24	142	85968	50.44	ug/L	100
24) iso-butyl alcohol	10.15	41	14404	488.55	ug/L	100
25) carbon disulfide	7.35	76	136151	49.93	ug/L	100
26) 1-chloropropane	7.69	63	3337	50.41	ug/L	100
27) methylene chloride	7.69	49	62558	50.60	ug/L	100
28) methyl acetate	7.48	74	6708	53.89	ug/L	100
29) methyl tert butyl ether	7.96	73	140762	51.41	ug/L	100
30) trans-1,2-dichloroethene	8.03	61	59567	51.64	ug/L	100
31) di-isopropyl ether	8.53	45	155894	51.88	ug/L	100
32) ethyl tert-butyl ether	9.00	59	156289	52.29	ug/L	100
33) 2-butanone	9.33	72	4907	53.44	ug/L	100
34) 1,1-dichloroethane	8.61	63	79339	51.38	ug/L	100
35) chloroprene	8.69	53	58073	49.50	ug/L	100
36) acrylonitrile	8.06	53	67314	266.81	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129655.D
Acq On : 7 Jan 2013 2:51 pm
Operator : ROBERTS
Sample : ICC5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 11 16:58:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.59	86	6344	53.42	ug/L		100
38) ethyl acetate	9.31	45	5551	54.96	ug/L		100
39) 2,2-dichloropropane	9.33	77	63052	49.39	ug/L		100
40) cis-1,2-dichloroethene	9.35	96	52699	49.85	ug/L		100
41) propionitrile	9.47	54	54357	522.66	ug/L		100
42) bromochloromethane	9.67	130	34596	52.90	ug/L		100
43) tetrahydrofuran	9.69	72	5522	51.60	ug/L		100
44) chloroform	9.71	83	84034	50.35	ug/L		100
45) tert-Butyl Formate	9.72	59	35395	52.22	ug/L		100
48) freon 113	6.87	151	27801	46.37	ug/L		100
49) methacrylonitrile	9.62	67	16881	52.39	ug/L		100
50) 1,1,1-trichloroethane	9.93	97	65615	49.84	ug/L		100
51) Cyclohexane	9.98	84	55663	48.19	ug/L	#	100
52) 2,2,4-trimethylpentane	10.31	57	136439	46.58	ug/L		100
53) tert-amyl methyl ether	10.37	73	139125	50.95	ug/L		100
55) epichlorohydrin	12.01	57	18815	250.59	ug/L		100
56) n-butyl alcohol	10.89	56	61543	2399.65	ug/L		100
57) carbon tetrachloride	10.12	117	57192	49.56	ug/L		100
58) 1,1-dichloropropene	10.11	75	54130	49.90	ug/L		100
59) hexane	8.27	57	46192	46.78	ug/L		100
60) Tert Amyl Alcohol	10.27	73	12798	242.72	ug/L	#	100
61) benzene	10.38	78	170978	47.96	ug/L		100
62) heptane	10.48	57	27199	47.04	ug/L		100
63) isopropyl acetate	10.28	61	16765	50.84	ug/L		100
64) 1,2-dichloroethane	10.42	62	56294	52.42	ug/L		100
65) trichloroethene	11.07	95	44115	50.31	ug/L		100
66) ethyl acrylate	11.07	55	48489	211.79	ug/L		60
67) 2-nitropropane	11.88	41	12142	51.33	ug/L		100
68) 2-chloroethyl vinyl ether	11.86	63	62535	254.13	ug/L		100
69) methyl methacrylate	11.33	69	27957	51.19	ug/L		100
70) 1,2-dichloropropane	11.36	63	44659	50.73	ug/L		100
71) methylcyclohexane	11.26	83	59591	46.98	ug/L		100
72) Tert-amyl ethyl ether	11.19	59	117570	1810.82	ug/L	#	35
73) dibromomethane	11.53	93	28600	50.54	ug/L		100
74) bromodichloromethane	11.64	83	66321	51.91	ug/L		100
75) cis-1,3-dichloropropene	12.08	75	78504	52.67	ug/L		100
77) 4-methyl-2-pentanone	12.17	58	15982	51.73	ug/L		100
78) toluene	12.41	91	178545	48.29	ug/L		100
79) 3-methyl-1-butanol	12.19	70	23288	973.48	ug/L		100
80) trans-1,3-dichloropropene	12.63	75	67670	52.06	ug/L		100
81) ethyl methacrylate	12.59	69	55008	52.52	ug/L		100
82) 1,1,2-trichloroethane	12.85	83	33123	51.66	ug/L		100
83) 2-hexanone	13.00	58	14862	51.07	ug/L		100
85) tetrachloroethene	12.97	166	47044	48.32	ug/L		100
86) 1,3-dichloropropane	13.02	76	61393	49.66	ug/L		100
87) butyl acetate	13.05	56	24390	50.08	ug/L		100
88) dibromochloromethane	13.29	129	52533	51.22	ug/L		100
89) 1,2-dibromoethane	13.44	107	41358	51.13	ug/L		100
90) 3,3-Dimethyl-1-Butanol	13.17	57	39527	467.74	ug/L		100
91) chlorobenzene	13.86	112	120145	49.40	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129655.D
Acq On : 7 Jan 2013 2:51 pm
Operator : ROBERTS
Sample : ICC5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 11 16:58:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	46460	50.91	ug/L	100
93) ethylbenzene	13.90	91	187677	48.14	ug/L	100
94) m,p-xylene	14.00	106	141727	93.96	ug/L	100
95) o-xylene	14.42	91	161695	48.48	ug/L	100
96) styrene	14.43	104	129396	50.76	ug/L	100
97) bromoform	14.72	173	35512	51.89	ug/L	100
99) isopropylbenzene	14.74	105	182508	47.19	ug/L	100
101) bromobenzene	15.16	156	54245	48.71	ug/L	100
102) cyclohexanone	14.96	55	55076	422.81	ug/L	100
103) 1,1,2,2-tetrachloroethane	15.09	83	50092	47.84	ug/L	100
104) trans-1,4-dichloro-2-buten	15.12	53	12844	51.68	ug/L	100
105) 1,2,3-trichloropropane	15.16	110	12051	48.60	ug/L	100
106) n-propylbenzene	15.14	91	209607	47.08	ug/L	100
107) 4-Ethyltoluene	15.24	105	174161	47.31	ug/L	100
108) 2-chlorotoluene	15.30	126	44063	47.73	ug/L	100
109) 4-chlorotoluene	15.40	91	139501	47.75	ug/L	100
110) 1,3,5-trimethylbenzene	15.29	105	153024	47.61	ug/L	100
111) tert-butylbenzene	15.63	119	128729	47.60	ug/L	100
112) pentachloroethane	15.74	167	36243	49.57	ug/L	100
113) 1,2,4-trimethylbenzene	15.68	105	160245	48.63	ug/L	100
114) sec-butylbenzene	15.84	105	189858	47.20	ug/L	100
115) 1,3-dichlorobenzene	16.05	146	99001	48.93	ug/L	100
116) p-isopropyltoluene	15.96	119	159049	47.97	ug/L	100
117) 1,4-dichlorobenzene	16.14	146	99407	49.16	ug/L	100
118) 1,2-dichlorobenzene	16.53	146	97920	50.34	ug/L	100
119) n-butylbenzene	16.37	134	36310	49.88	ug/L	100
120) p-Diethylbenzene	16.34	119	96048	48.42	ug/L	100
121) 1,2-dibromo-3-chloropropan	17.32	157	10663	50.87	ug/L	100
122) 1,3,5-Trichlorobenzene	17.46	180	79990	51.05	ug/L	100
123) 1,2,4-trichlorobenzene	18.11	180	72706	53.38	ug/L	100
124) 1,2,4,5-tetramethylbenzene	17.12	119	172242	51.62	ug/L	100
125) hexachlorobutadiene	18.20	225	37720	49.49	ug/L	100
126) naphthalene	18.41	128	142177	52.53	ug/L	100
127) 1,2,3-trichlorobenzene	18.66	180	65276	54.19	ug/L	100
128) hexachloroethane	16.76	119	35845	49.68	ug/L	100
129) Benzyl chloride	16.26	91	91326	48.21	ug/L	100

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

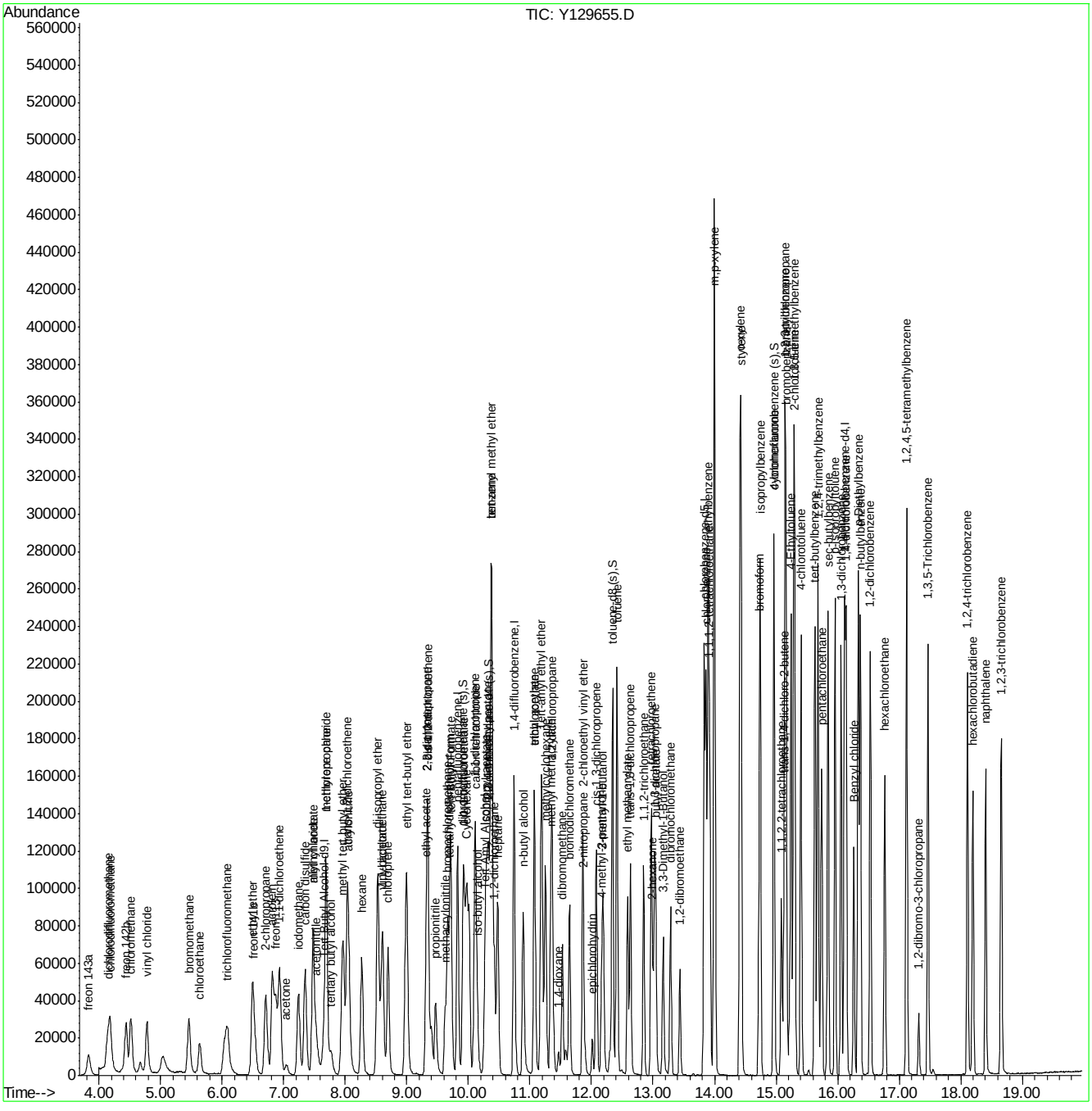
7.7.30

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129655.D
Acq On : 7 Jan 2013 2:51 pm
Operator : ROBERTS
Sample : ICC5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 11 16:58:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129656.D
Acq On : 7 Jan 2013 3:20 pm
Operator : ROBERTS
Sample : IC5578-75
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 16:47:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.66	65	44590	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	121024	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	177497	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	144833	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	69430	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	70178	40.67	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.34%			
47) 1,2-dichloroethane-d4 (s)	10.34	65	70758	38.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 77.92%			
76) toluene-d8 (s)	12.34	98	235296	38.50	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 77.00%#			
100) 4-bromofluorobenzene (s)	14.96	95	90096	61.73	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 123.46%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	17821	2021.53	ug/L	99
3) tertiary butyl alcohol	7.78	59	38008	369.73	ug/L	97
5) freon 141b	6.52	81	66241	76.01	ug/L	99
6) freon 142b	4.44	65	78554	76.11	ug/L	97
7) freon 143a	3.83	69	50337	72.48	ug/L	98
8) chlorodifluoromethane	4.18	51	68043	73.73	ug/L	98
9) dichlorodifluoromethane	4.15	85	96414	77.25	ug/L	100
10) chloromethane	4.52	50	91513	68.99	ug/L	99
11) vinyl chloride	4.79	62	89876	75.89	ug/L	99
12) bromomethane	5.46	94	53548	71.03	ug/L	98
13) chloroethane	5.63	64	40233	74.19	ug/L	98
15) trichlorofluoromethane	6.08	101	110404	74.94	ug/L	97
16) ethyl ether	6.49	74	39822	66.28	ug/L	97
17) 2-chloropropane	6.71	63	26712	75.74	ug/L	98
18) acrolein	6.81	56	118861	694.19	ug/L	99
19) 1,1-dichloroethene	6.94	61	93910	71.21	ug/L	98
20) acetone	7.04	58	5195	67.98	ug/L	97
21) allyl chloride	7.47	76	40917	72.83	ug/L	96
22) acetonitrile	7.52	40	28590	165.51	ug/L #	18
23) iodomethane	7.24	142	132057	71.25	ug/L	97
24) iso-butyl alcohol	10.15	41	21221	503.68	ug/L	93
25) carbon disulfide	7.35	76	218219	73.60	ug/L	99
26) 1-chloropropane	7.69	63	5225	72.58	ug/L	89
27) methylene chloride	7.69	49	93281	64.48	ug/L	99
28) methyl acetate	7.47	74	10100	76.66	ug/L	96
29) methyl tert butyl ether	7.97	73	206946	69.50	ug/L	99
30) trans-1,2-dichloroethene	8.03	61	92183	73.49	ug/L	99
31) di-isopropyl ether	8.53	45	231252	64.07	ug/L	98
32) ethyl tert-butyl ether	9.00	59	229832	64.05	ug/L	97
33) 2-butanone	9.33	72	7593	76.05	ug/L	87
34) 1,1-dichloroethane	8.61	63	119127	70.95	ug/L	98
35) chloroprene	8.69	53	92332	66.56	ug/L	98
36) acrylonitrile	8.06	53	97614	355.82	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129656.D
Acq On : 7 Jan 2013 3:20 pm
Operator : ROBERTS
Sample : IC5578-75
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 16:47:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.58	86	9610	79.34	ug/L		53
38) ethyl acetate	9.32	45	8231	74.95	ug/L	#	38
39) 2,2-dichloropropane	9.33	77	101392	73.05	ug/L		97
40) cis-1,2-dichloroethene	9.35	96	78958	68.69	ug/L		98
41) propionitrile	9.47	54	80634	713.02	ug/L		99
42) bromochloromethane	9.67	130	50680	71.27	ug/L		98
43) tetrahydrofuran	9.69	72	8259	75.11	ug/L		97
44) chloroform	9.71	83	125545	69.18	ug/L		100
45) tert-Butyl Formate	9.72	59	53570	68.74	ug/L		100
48) freon 113	6.87	151	45822	69.89	ug/L		93
49) methacrylonitrile	9.62	67	25466	80.64	ug/L		97
50) 1,1,1-trichloroethane	9.93	97	104335	72.89	ug/L		97
51) Cyclohexane	9.97	84	89436	71.21	ug/L	#	98
52) 2,2,4-trimethylpentane	10.31	57	224455	63.92	ug/L		98
53) tert-amyl methyl ether	10.37	73	202693	60.68	ug/L		99
55) epichlorohydrin	12.01	57	29190	356.51	ug/L		99
56) n-butyl alcohol	10.89	56	98133	3508.76	ug/L		97
57) carbon tetrachloride	10.12	117	91557	72.75	ug/L		98
58) 1,1-dichloropropene	10.11	75	85359	72.16	ug/L		98
59) hexane	8.27	57	75019	61.89	ug/L		96
60) Tert Amyl Alcohol	10.26	73	19519	354.22	ug/L	#	98
61) benzene	10.38	78	255433	65.71	ug/L		99
62) heptane	10.48	57	44720	64.81	ug/L		99
63) isopropyl acetate	10.28	61	24734	63.91	ug/L		95
64) 1,2-dichloroethane	10.42	62	81674	69.74	ug/L		99
65) trichloroethene	11.07	95	69398	72.57	ug/L		99
66) ethyl acrylate	10.89	55	18260	71.48	ug/L	#	99
67) 2-nitropropane	11.88	41	17677	68.52	ug/L		99
68) 2-chloroethyl vinyl ether	11.86	63	97089	332.50	ug/L		99
69) methyl methacrylate	11.33	69	42418	71.23	ug/L		99
70) 1,2-dichloropropane	11.36	63	66249	69.01	ug/L		98
71) methylcyclohexane	11.25	83	98263	64.43	ug/L		97
72) Tert-amyl ethyl ether	11.07	59	5380	6.14	ug/L	#	99
73) dibromomethane	11.53	93	42604	72.06	ug/L		98
74) bromodichloromethane	11.64	83	98331	70.58	ug/L		98
75) cis-1,3-dichloropropene	12.08	75	117423	72.24	ug/L		98
77) 4-methyl-2-pentanone	12.17	58	24146	71.66	ug/L		99
78) toluene	12.41	91	270227	67.03	ug/L		100
79) 3-methyl-1-butanol	12.19	70	36385	1287.23	ug/L		100
80) trans-1,3-dichloropropene	12.63	75	102201	72.10	ug/L		100
81) ethyl methacrylate	12.59	69	82206	71.98	ug/L		99
82) 1,1,2-trichloroethane	12.85	83	49709	71.10	ug/L		95
83) 2-hexanone	13.00	58	21444	75.58	ug/L		98
85) tetrachloroethene	12.97	166	75792	72.53	ug/L		98
86) 1,3-dichloropropane	13.02	76	92107	69.42	ug/L		98
87) butyl acetate	13.05	56	36633	70.09	ug/L		98
88) dibromochloromethane	13.29	129	79764	72.46	ug/L		99
89) 1,2-dibromoethane	13.43	107	63188	72.79	ug/L		94
90) 3,3-Dimethyl-1-Butanol	13.17	57	62134	685.08	ug/L		99
91) chlorobenzene	13.86	112	183894	70.45	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129656.D
Acq On : 7 Jan 2013 3:20 pm
Operator : ROBERTS
Sample : IC5578-75
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 16:47:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	69194	70.65 ug/L	100
93) ethylbenzene	13.90	91	291185	69.59 ug/L	99
94) m,p-xylene	14.00	106	219029	135.29 ug/L	97
95) o-xylene	14.42	91	250345	69.93 ug/L	99
96) styrene	14.43	104	195091	71.30 ug/L	100
97) bromoform	14.72	173	54958	74.83 ug/L	98
99) isopropylbenzene	14.74	105	289557	70.99 ug/L	99
101) bromobenzene	15.16	156	80488	68.52 ug/L	97
102) cyclohexanone	14.96	55	82392	597.47 ug/L	98
103) 1,1,2,2-tetrachloroethane	15.08	83	76417	69.19 ug/L	97
104) trans-1,4-dichloro-2-buten	15.13	53	20314	82.93 ug/L	94
105) 1,2,3-trichloropropane	15.16	110	18399	70.35 ug/L	97
106) n-propylbenzene	15.14	91	331656	70.64 ug/L	100
107) 4-Ethyltoluene	15.24	105	276198	69.42 ug/L	99
108) 2-chlorotoluene	15.30	126	67834	67.65 ug/L	97
109) 4-chlorotoluene	15.40	91	213177	69.18 ug/L	99
110) 1,3,5-trimethylbenzene	15.29	105	236187	69.67 ug/L	99
111) tert-butylbenzene	15.63	119	204503	71.70 ug/L	97
112) pentachloroethane	15.74	167	54271	70.37 ug/L	99
113) 1,2,4-trimethylbenzene	15.68	105	241355	69.45 ug/L	100
114) sec-butylbenzene	15.84	105	302984	71.42 ug/L	99
115) 1,3-dichlorobenzene	16.05	146	149955	70.27 ug/L	99
116) p-isopropyltoluene	15.96	119	253267	72.42 ug/L	100
117) 1,4-dichlorobenzene	16.14	146	148138	69.47 ug/L	99
118) 1,2-dichlorobenzene	16.53	146	145604	70.97 ug/L	99
119) n-butylbenzene	16.37	134	57682	75.12 ug/L	98
120) p-Diethylbenzene	16.33	119	153925	73.58 ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	16415	74.25 ug/L	91
122) 1,3,5-Trichlorobenzene	17.46	180	122191	73.93 ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	109334	76.11 ug/L	97
124) 1,2,4,5-tetramethylbenzene	17.12	119	265406	75.42 ug/L	100
125) hexachlorobutadiene	18.20	225	59311	73.79 ug/L	98
126) naphthalene	18.41	128	215928	75.64 ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	96160	75.69 ug/L	95
128) hexachloroethane	16.76	119	56838	74.69 ug/L	99
129) Benzyl chloride	16.26	91	147247	73.69 ug/L	100

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

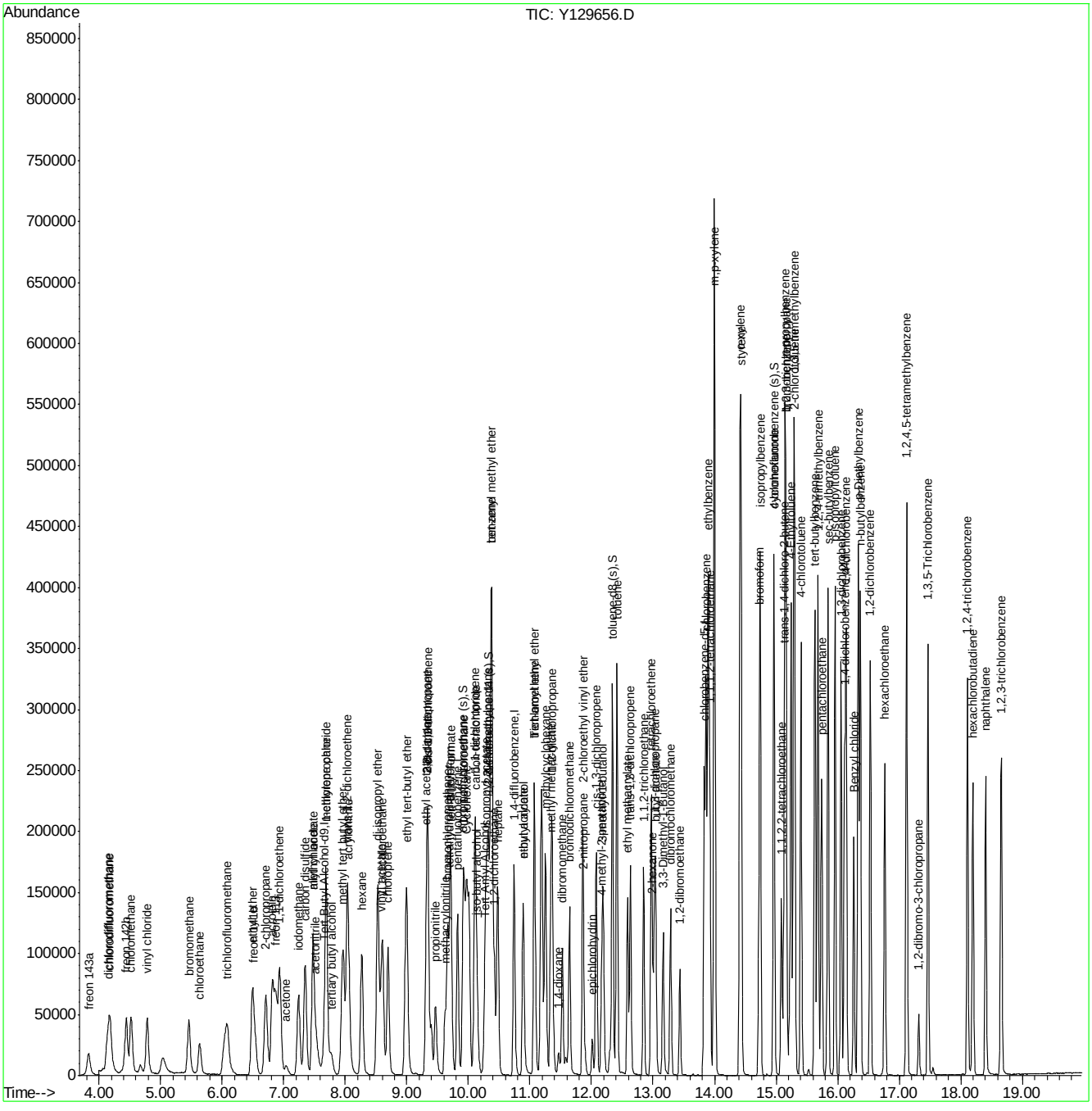
7.7.31

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : Y129656.D
Acq On : 7 Jan 2013 3:20 pm
Operator : ROBERTS
Sample : IC5578-75
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 16:47:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jan 07 16:46:47 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129657.D
Acq On : 7 Jan 2013 3:50 pm
Operator : ROBERTS
Sample : IC5578-100
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 11 16:59:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.66	65	46188	500.00	ug/L	0.00
4) pentafluorobenzene	9.83	168	121385	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	178025	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	148830	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	70394	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	94008	100.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 200.76%#			
47) 1,2-dichloroethane-d4 (s)	10.34	65	94306	99.61	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 199.22%#			
76) toluene-d8 (s)	12.34	98	310573	100.37	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 200.74%#			
100) 4-bromofluorobenzene (s)	14.96	95	121594	102.92	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 205.84%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	25293	2769.86	ug/L	97
3) tertiary butyl alcohol	7.77	59	52322	491.36	ug/L	99
5) freon 141b	6.51	81	802	0.92	ug/L #	51
6) freon 142b	4.44	65	1095	1.06	ug/L #	45
7) freon 143a	3.82	69	393	0.56	ug/L #	49
8) chlorodifluoromethane	4.19	51	90268	97.52	ug/L	98
9) dichlorodifluoromethane	4.15	85	126299	98.38	ug/L	96
10) chloromethane	4.52	50	122448	92.03	ug/L	98
11) vinyl chloride	4.79	62	118346	99.63	ug/L	98
12) bromomethane	5.46	94	71756	94.53	ug/L	97
13) chloroethane	5.63	64	53625	98.59	ug/L	99
15) trichlorofluoromethane	6.08	101	144540	97.81	ug/L	96
16) ethyl ether	6.49	74	56374	93.55	ug/L	93
17) 2-chloropropane	6.72	63	35903	101.50	ug/L	95
18) acrolein	6.83	56	2200	12.56	ug/L	88
19) 1,1-dichloroethene	6.94	61	122087	92.29	ug/L	97
20) acetone	7.04	58	8612	112.36	ug/L	91
21) allyl chloride	7.48	76	56448	100.18	ug/L	97
22) acetonitrile	7.53	40	42184	1092.63	ug/L	92
23) iodomethane	7.24	142	180703	97.21	ug/L	98
24) iso-butyl alcohol	10.15	41	29001	901.91	ug/L	94
25) carbon disulfide	7.35	76	291287	97.95	ug/L	100
26) 1-chloropropane	7.69	63	6777	93.86	ug/L	93
27) methylene chloride	7.69	49	126898	94.11	ug/L	99
28) methyl acetate	7.46	74	14606	107.59	ug/L	92
29) methyl tert butyl ether	7.97	73	286352	95.88	ug/L	99
30) trans-1,2-dichloroethene	8.03	61	122804	97.61	ug/L	98
31) di-isopropyl ether	8.53	45	313222	95.58	ug/L	97
32) ethyl tert-butyl ether	8.99	59	316048	96.95	ug/L	99
33) 2-butanone	9.32	72	11322	113.06	ug/L	75
34) 1,1-dichloroethane	8.61	63	159760	94.86	ug/L	99
35) chloroprene	8.69	53	119531	93.42	ug/L	97
36) acrylonitrile	8.06	53	137121	498.35	ug/L	99

7.7.32 7

ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129657.D
Acq On : 7 Jan 2013 3:50 pm
Operator : ROBERTS
Sample : IC5578-100
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 11 16:59:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.59	86	13250	102.30	ug/L		80
38) ethyl acetate	9.31	45	11286	102.46	ug/L		94
39) 2,2-dichloropropane	9.33	77	132938	95.49	ug/L		97
40) cis-1,2-dichloroethene	9.34	96	105942	91.89	ug/L		99
41) propionitrile	9.47	54	113092	997.06	ug/L		99
42) bromochloromethane	9.66	130	70504	98.85	ug/L		100
43) tetrahydrofuran	9.69	72	11486	98.41	ug/L		96
44) chloroform	9.71	83	166865	91.67	ug/L		100
45) tert-Butyl Formate	9.72	59	73379	99.26	ug/L		99
48) freon 113	6.87	151	63857	97.66	ug/L		100
49) methacrylonitrile	9.62	67	35659	101.47	ug/L		97
50) 1,1,1-trichloroethane	9.93	97	137346	95.66	ug/L		98
51) Cyclohexane	9.98	84	116877	92.78	ug/L	#	98
52) 2,2,4-trimethylpentane	10.31	57	294053	92.06	ug/L		98
53) tert-amyl methyl ether	10.37	73	274281	92.11	ug/L		98
55) epichlorohydrin	12.01	57	40862	497.58	ug/L		97
56) n-butyl alcohol	10.89	56	138992	4954.94	ug/L		98
57) carbon tetrachloride	10.12	117	118202	93.64	ug/L		98
58) 1,1-dichloropropene	10.11	75	112431	94.76	ug/L		99
59) hexane	8.27	57	99273	91.93	ug/L		98
60) Tert Amyl Alcohol	10.27	73	27600	478.59	ug/L	#	97
61) benzene	10.38	78	340520	87.34	ug/L		100
62) heptane	10.48	57	57847	91.48	ug/L		98
63) isopropyl acetate	10.28	61	35268	97.78	ug/L		98
64) 1,2-dichloroethane	10.42	62	110278	93.89	ug/L		98
65) trichloroethene	11.07	95	93240	97.22	ug/L		99
66) ethyl acrylate	11.07	55	105046	419.49	ug/L		59
67) 2-nitropropane	11.88	41	24499	94.69	ug/L		99
68) 2-chloroethyl vinyl ether	11.86	63	138099	513.11	ug/L		98
69) methyl methacrylate	11.33	69	59128	98.99	ug/L		97
70) 1,2-dichloropropane	11.36	63	90286	93.78	ug/L		99
71) methylcyclohexane	11.26	83	128713	92.78	ug/L		97
72) Tert-amyl ethyl ether	11.19	59	233206	3283.96	ug/L	#	35
73) dibromomethane	11.53	93	59099	95.49	ug/L		99
74) bromodichloromethane	11.64	83	135373	96.88	ug/L		98
75) cis-1,3-dichloropropene	12.08	75	162492	99.67	ug/L		97
77) 4-methyl-2-pentanone	12.17	58	33804	100.03	ug/L		100
78) toluene	12.41	91	364022	90.02	ug/L		99
79) 3-methyl-1-butanol	12.19	70	50500	1930.04	ug/L		99
80) trans-1,3-dichloropropene	12.63	75	139785	98.33	ug/L		98
81) ethyl methacrylate	12.59	69	115107	100.49	ug/L		99
82) 1,1,2-trichloroethane	12.85	83	69714	99.41	ug/L		97
83) 2-hexanone	12.99	58	33023	103.75	ug/L		90
85) tetrachloroethene	12.97	166	100916	93.98	ug/L		98
86) 1,3-dichloropropane	13.02	76	125806	92.27	ug/L		99
87) butyl acetate	13.05	56	52323	97.41	ug/L		95
88) dibromochloromethane	13.29	129	110141	97.37	ug/L		99
89) 1,2-dibromoethane	13.44	107	88928	99.69	ug/L		96
90) 3,3-Dimethyl-1-Butanol	13.17	57	87195	935.57	ug/L		99
91) chlorobenzene	13.86	112	249957	93.18	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129657.D
Acq On : 7 Jan 2013 3:50 pm
Operator : ROBERTS
Sample : IC5578-100
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 11 16:59:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

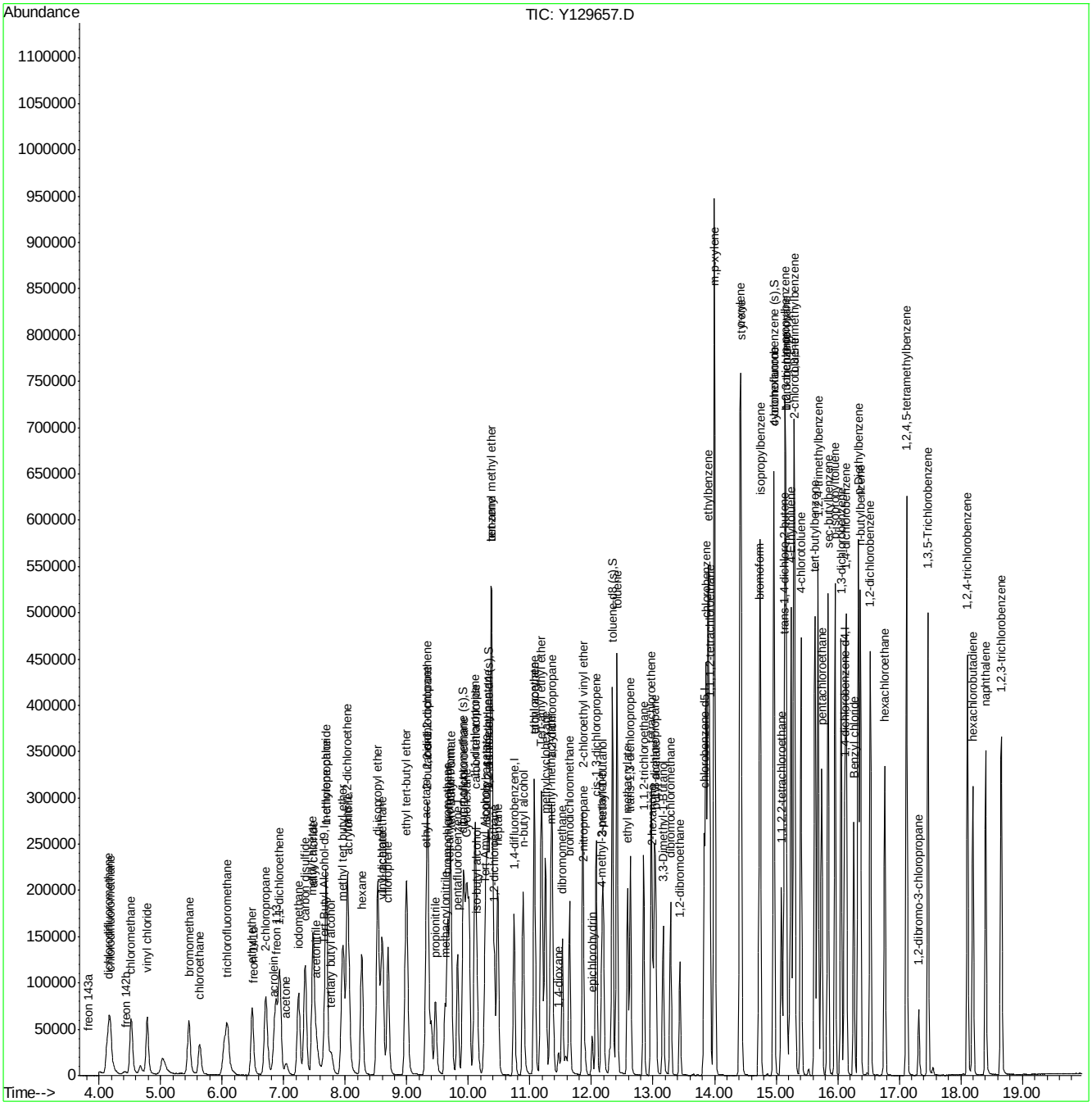
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	92372	91.78 ug/L	98
93) ethylbenzene	13.90	91	384485	89.42 ug/L	99
94) m,p-xylene	14.00	106	294282	176.89 ug/L	97
95) o-xylene	14.42	91	336582	91.50 ug/L	97
96) styrene	14.43	104	265207	94.33 ug/L	99
97) bromoform	14.72	173	75895	100.56 ug/L	97
99) isopropylbenzene	14.74	105	383659	92.77 ug/L	99
101) bromobenzene	15.16	156	108830	91.38 ug/L	98
102) cyclohexanone	14.96	55	150727	1082.06 ug/L	97
103) 1,1,2,2-tetrachloroethane	15.08	83	106918	95.48 ug/L	99
104) trans-1,4-dichloro-2-buten	15.13	53	27416	103.17 ug/L	91
105) 1,2,3-trichloropropane	15.16	110	24595	92.75 ug/L	100
106) n-propylbenzene	15.14	91	435771	91.54 ug/L	100
107) 4-Ethyltoluene	15.24	105	360095	91.47 ug/L	100
108) 2-chlorotoluene	15.30	126	90585	91.76 ug/L	98
109) 4-chlorotoluene	15.40	91	286818	91.81 ug/L	100
110) 1,3,5-trimethylbenzene	15.29	105	312502	90.92 ug/L	100
111) tert-butylbenzene	15.63	119	271064	93.74 ug/L	99
112) pentachloroethane	15.74	167	73431	93.91 ug/L	99
113) 1,2,4-trimethylbenzene	15.68	105	324454	92.08 ug/L	99
114) sec-butylbenzene	15.84	105	398841	92.72 ug/L	99
115) 1,3-dichlorobenzene	16.05	146	205804	95.12 ug/L	99
116) p-isopropyltoluene	15.96	119	335358	94.58 ug/L	99
117) 1,4-dichlorobenzene	16.14	146	204753	94.70 ug/L	99
118) 1,2-dichlorobenzene	16.53	146	200752	96.50 ug/L	100
119) n-butylbenzene	16.37	134	76784	98.63 ug/L	97
120) p-Diethylbenzene	16.33	119	203432	95.91 ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	23050	102.83 ug/L	99
122) 1,3,5-Trichlorobenzene	17.46	180	170384	101.68 ug/L	100
123) 1,2,4-trichlorobenzene	18.11	180	157910	108.42 ug/L	99
124) 1,2,4,5-tetramethylbenzene	17.12	119	356657	99.96 ug/L	99
125) hexachlorobutadiene	18.20	225	78506	96.33 ug/L	98
126) naphthalene	18.41	128	306536	105.91 ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	135193	104.96 ug/L	97
128) hexachloroethane	16.76	119	75342	97.64 ug/L	98
129) Benzyl chloride	16.26	91	206452	101.91 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129657.D
Acq On : 7 Jan 2013 3:50 pm
Operator : ROBERTS
Sample : IC5578-100
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 11 16:59:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129658.D
Acq On : 7 Jan 2013 4:19 pm
Operator : ROBERTS
Sample : IC5578-200
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 11 16:59:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.66	65	49314	500.00	ug/L	0.01
4) pentafluorobenzene	9.82	168	121859	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	181939	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	153240	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	71138	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	186361	198.21	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 396.42%#			
47) 1,2-dichloroethane-d4 (s)	10.33	65	175577	184.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 369.48%#			
76) toluene-d8 (s)	12.34	98	604388	191.11	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 382.22%#			
100) 4-bromofluorobenzene (s)	14.96	95	238189	199.50	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 399.00%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	50154	5144.24	ug/L	98
3) tertiary butyl alcohol	7.78	59	107486	945.42	ug/L	97
5) freon 141b	6.52	81	1954	2.23	ug/L #	72
6) freon 142b	4.44	65	2085	2.01	ug/L #	49
7) freon 143a	3.82	69	1506	2.16	ug/L #	85
8) chlorodifluoromethane	4.18	51	178710	192.32	ug/L	99
9) dichlorodifluoromethane	4.14	85	260475	202.10	ug/L	99
10) chloromethane	4.53	50	242614	181.64	ug/L	99
11) vinyl chloride	4.79	62	239030	200.44	ug/L	98
12) bromomethane	5.45	94	124150	162.92	ug/L	97
13) chloroethane	5.63	64	101145	185.22	ug/L	98
15) trichlorofluoromethane	6.08	101	289735	195.31	ug/L	96
16) ethyl ether	6.49	74	112465	185.91	ug/L	94
17) 2-chloropropane	6.71	63	72334	203.70	ug/L	91
18) acrolein	6.82	56	4126	23.46	ug/L	97
19) 1,1-dichloroethene	6.94	61	238799	179.82	ug/L	97
20) acetone	7.04	58	15081	195.99	ug/L	91
21) allyl chloride	7.47	76	108268	191.39	ug/L	96
22) acetonitrile	7.53	40	84249	2173.69	ug/L	96
23) iodomethane	7.24	142	362068	194.01	ug/L	97
24) iso-butyl alcohol	10.15	41	56018	1735.33	ug/L	91
25) carbon disulfide	7.34	76	581691	194.84	ug/L	99
26) 1-chloropropane	7.69	63	13491	186.13	ug/L	98
27) methylene chloride	7.69	49	242932	179.47	ug/L	97
28) methyl acetate	7.47	74	29223	214.42	ug/L #	84
29) methyl tert butyl ether	7.97	73	565715	188.69	ug/L	99
30) trans-1,2-dichloroethene	8.03	61	235159	186.18	ug/L	97
31) di-isopropyl ether	8.53	45	609323	185.22	ug/L	97
32) ethyl tert-butyl ether	9.00	59	617200	188.59	ug/L	98
33) 2-butanone	9.32	72	20453	203.46	ug/L	86
34) 1,1-dichloroethane	8.61	63	307580	181.93	ug/L	99
35) chloroprene	8.69	53	232103	180.69	ug/L	97
36) acrylonitrile	8.05	53	262052	948.68	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129658.D
Acq On : 7 Jan 2013 4:19 pm
Operator : ROBERTS
Sample : IC5578-200
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 11 16:59:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.58	86	26927	207.10	ug/L		65
38) ethyl acetate	9.31	45	22381	202.40	ug/L		78
39) 2,2-dichloropropane	9.33	77	257880	184.51	ug/L		98
40) cis-1,2-dichloroethene	9.34	96	204569	176.75	ug/L		100
41) propionitrile	9.46	54	222039	1949.96	ug/L		98
42) bromochloromethane	9.66	130	137237	191.67	ug/L		99
43) tetrahydrofuran	9.68	72	22648	193.30	ug/L		93
44) chloroform	9.71	83	320836	175.58	ug/L		98
45) tert-Butyl Formate	9.72	59	145118	195.53	ug/L		99
48) freon 113	6.87	151	130450	198.73	ug/L		95
49) methacrylonitrile	9.62	67	70736	200.50	ug/L		97
50) 1,1,1-trichloroethane	9.93	97	270526	187.69	ug/L		99
51) Cyclohexane	9.98	84	233232	184.43	ug/L	#	98
52) 2,2,4-trimethylpentane	10.32	57	568417	177.26	ug/L		98
53) tert-amyl methyl ether	10.37	73	522087	174.64	ug/L		95
55) epichlorohydrin	12.01	57	82710	985.51	ug/L		99
56) n-butyl alcohol	10.89	56	283779	9898.84	ug/L		98
57) carbon tetrachloride	10.12	117	233937	181.34	ug/L		98
58) 1,1-dichloropropene	10.10	75	218913	180.53	ug/L		99
59) hexane	8.26	57	198346	179.72	ug/L		98
60) Tert Amyl Alcohol	10.27	73	54901	931.51	ug/L	#	98
61) benzene	10.38	78	654779	164.33	ug/L		99
62) heptane	10.48	57	115133	178.15	ug/L		99
63) isopropyl acetate	10.28	61	68534	185.92	ug/L		94
64) 1,2-dichloroethane	10.42	62	210288	175.19	ug/L		97
65) trichloroethene	11.07	95	183465	187.18	ug/L		97
66) ethyl acrylate	11.07	55	203375	794.68	ug/L		59
67) 2-nitropropane	11.88	41	46939	177.51	ug/L		98
68) 2-chloroethyl vinyl ether	11.86	63	283049	1029.05	ug/L		99
69) methyl methacrylate	11.33	69	115826	189.74	ug/L		89
70) 1,2-dichloropropane	11.36	63	173456	176.28	ug/L		99
71) methylcyclohexane	11.25	83	253775	179.00	ug/L		97
72) Tert-amyl ethyl ether	11.19	59	455975	6282.82	ug/L	#	35
73) dibromomethane	11.52	93	116423	184.07	ug/L		99
74) bromodichloromethane	11.64	83	266258	186.45	ug/L		100
75) cis-1,3-dichloropropene	12.08	75	315736	189.51	ug/L		98
77) 4-methyl-2-pentanone	12.17	58	66273	191.89	ug/L		97
78) toluene	12.41	91	703522	170.24	ug/L		100
79) 3-methyl-1-butanol	12.19	70	101488	3795.30	ug/L		98
80) trans-1,3-dichloropropene	12.63	75	270186	185.96	ug/L		97
81) ethyl methacrylate	12.59	69	226224	193.24	ug/L		99
82) 1,1,2-trichloroethane	12.85	83	136534	190.51	ug/L		95
83) 2-hexanone	13.00	58	58679	180.38	ug/L		97
85) tetrachloroethene	12.97	166	199770	180.69	ug/L		98
86) 1,3-dichloropropane	13.02	76	241521	172.04	ug/L		100
87) butyl acetate	13.05	56	99836	180.52	ug/L		95
88) dibromochloromethane	13.29	129	216705	186.06	ug/L		99
89) 1,2-dibromoethane	13.43	107	175888	191.50	ug/L		97
90) 3,3-Dimethyl-1-Butanol	13.17	57	174609	1819.58	ug/L		99
91) chlorobenzene	13.86	112	496880	179.90	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129658.D
Acq On : 7 Jan 2013 4:19 pm
Operator : ROBERTS
Sample : IC5578-200
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 11 16:59:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration

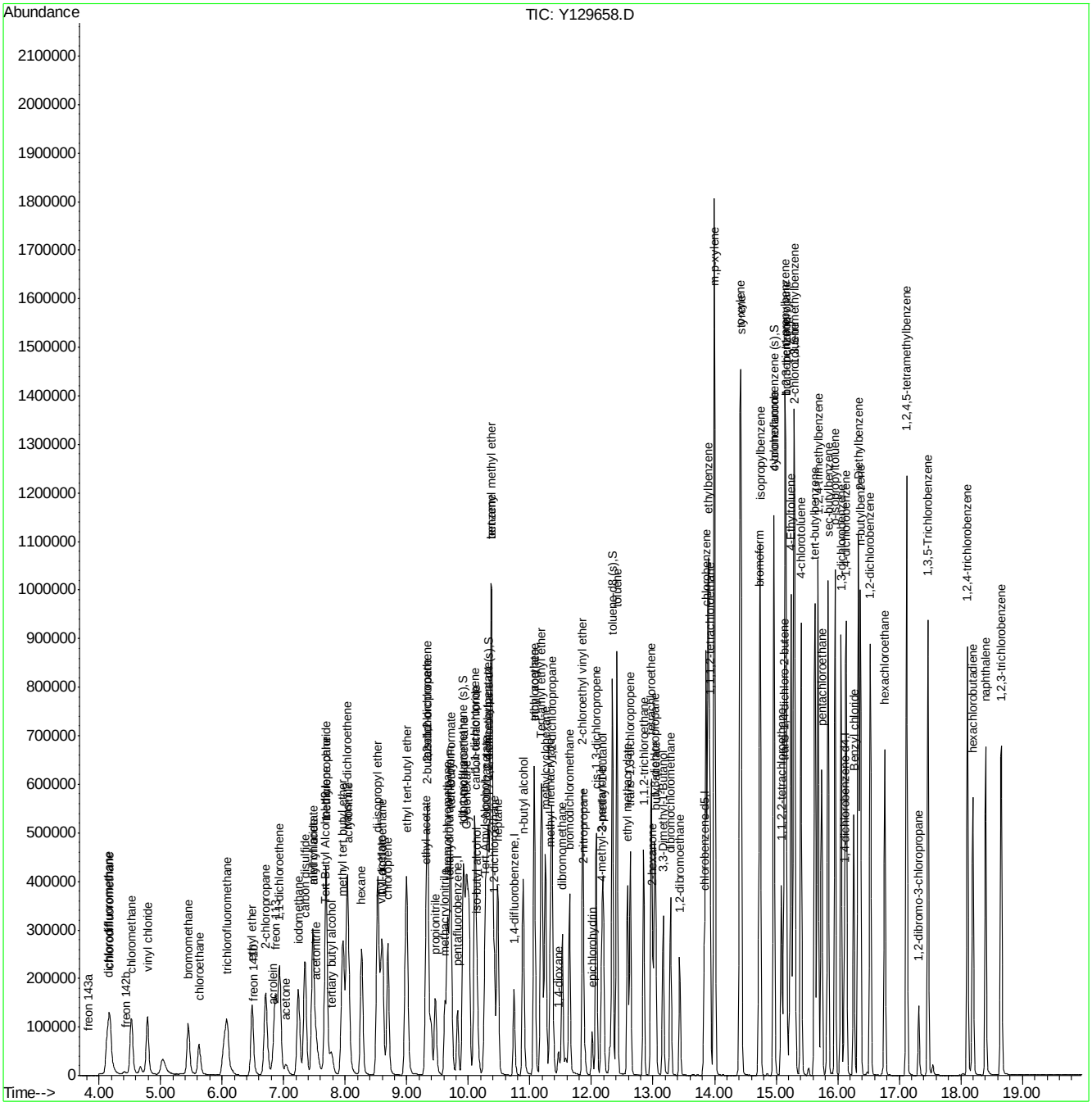
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	181758	175.40	ug/L	99
93) ethylbenzene	13.90	91	749637	169.33	ug/L	99
94) m,p-xylene	14.00	106	572890	334.45	ug/L	95
95) o-xylene	14.42	91	657229	173.53	ug/L	97
96) styrene	14.43	104	513295	177.31	ug/L	99
97) bromoform	14.72	173	151841	195.40	ug/L	100
99) isopropylbenzene	14.74	105	746695	178.67	ug/L	99
101) bromobenzene	15.16	156	207510	172.42	ug/L	99
102) cyclohexanone	14.96	55	224519	1594.95	ug/L	97
103) 1,1,2,2-tetrachloroethane	15.08	83	209061	184.75	ug/L	98
104) trans-1,4-dichloro-2-buten	15.12	53	53278	198.39	ug/L	94
105) 1,2,3-trichloropropane	15.16	110	46655	174.10	ug/L	98
106) n-propylbenzene	15.14	91	841107	174.84	ug/L	98
107) 4-Ethyltoluene	15.24	105	712797	179.18	ug/L	100
108) 2-chlorotoluene	15.30	126	175890	176.30	ug/L	97
109) 4-chlorotoluene	15.40	91	562001	178.01	ug/L	98
110) 1,3,5-trimethylbenzene	15.29	105	606879	174.71	ug/L	100
111) tert-butylbenzene	15.63	119	542736	185.73	ug/L	97
112) pentachloroethane	15.74	167	144310	182.63	ug/L	98
113) 1,2,4-trimethylbenzene	15.68	105	625236	175.59	ug/L	99
114) sec-butylbenzene	15.84	105	782769	180.08	ug/L	99
115) 1,3-dichlorobenzene	16.05	146	401078	183.43	ug/L	99
116) p-isopropyltoluene	15.96	119	656482	183.21	ug/L	99
117) 1,4-dichlorobenzene	16.14	146	402594	184.25	ug/L	100
118) 1,2-dichlorobenzene	16.53	146	390603	185.80	ug/L	99
119) n-butylbenzene	16.37	134	134224	170.61	ug/L	92
120) p-Diethylbenzene	16.34	119	401394	187.26	ug/L	97
121) 1,2-dibromo-3-chloropropan	17.32	157	47129	208.05	ug/L	95
122) 1,3,5-Trichlorobenzene	17.46	180	329079	194.33	ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	308313	209.46	ug/L	99
124) 1,2,4,5-tetramethylbenzene	17.12	119	699594	194.02	ug/L	99
125) hexachlorobutadiene	18.20	225	146326	177.67	ug/L	99
126) naphthalene	18.41	128	593675	202.96	ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	256030	196.70	ug/L	97
128) hexachloroethane	16.76	119	150837	193.44	ug/L	99
129) Benzyl chloride	16.26	91	405861	198.25	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129658.D
Acq On : 7 Jan 2013 4:19 pm
Operator : ROBERTS
Sample : IC5578-200
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 11 16:59:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 16:54:57 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129660.D
Acq On : 7 Jan 2013 5:55 pm
Operator : ROBERTS
Sample : ICV5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 11 17:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.66	65	53211	500.00	ug/L	0.01
4) pentafluorobenzene	9.83	168	130642	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	191049	50.00	ug/L	0.00
84) chlorobenzene-d5	13.84	117	159113	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	76859	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	56008	55.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.14%			
47) 1,2-dichloroethane-d4 (s)	10.34	65	55135	54.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 108.22%			
76) toluene-d8 (s)	12.34	98	187874	56.57	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 113.14%			
100) 4-bromofluorobenzene (s)	14.96	95	72455	56.17	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 112.34%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	14066	1337.07	ug/L	99
3) tertiary butyl alcohol	7.77	59	32991	268.93	ug/L	99
5) freon 141b	6.52	81	50167	53.33	ug/L	99
6) freon 142b	4.44	65	58178	52.22	ug/L	99
7) freon 143a	3.83	69	39468	52.69	ug/L #	97
8) chlorodifluoromethane	4.18	51	49620	49.81	ug/L	98
9) dichlorodifluoromethane	4.14	85	72378	52.38	ug/L	98
10) chloromethane	4.51	50	71234	49.75	ug/L	98
11) vinyl chloride	4.78	62	70143	54.86	ug/L	96
12) bromomethane	5.47	94	44868	54.92	ug/L	97
13) chloroethane	5.64	64	32411	55.36	ug/L	96
15) trichlorofluoromethane	6.08	101	83648	52.60	ug/L	98
16) ethyl ether	6.49	74	34507	53.21	ug/L	98
17) 2-chloropropane	6.71	63	21226	55.76	ug/L	90
18) acrolein	6.81	56	138296	733.34	ug/L	99
19) 1,1-dichloroethene	6.94	61	72435	50.88	ug/L	96
20) acetone	7.04	58	4657	56.45	ug/L	100
21) allyl chloride	7.48	76	32249	53.18	ug/L	90
22) acetonitrile	7.53	40	24089	566.50	ug/L	91
23) iodomethane	7.24	142	104401	52.18	ug/L	97
24) iso-butyl alcohol	10.15	41	17173	496.22	ug/L	89
25) carbon disulfide	7.35	76	167079	52.20	ug/L	98
26) 1-chloropropane	7.69	63	4116	52.97	ug/L	100
27) methylene chloride	7.69	49	75187	51.81	ug/L	98
28) methyl acetate	7.48	74	7958	54.47	ug/L	93
29) methyl tert butyl ether	7.96	73	337455	104.99	ug/L	100
30) trans-1,2-dichloroethene	8.03	61	70667	52.19	ug/L	99
31) di-isopropyl ether	8.53	45	188495	53.45	ug/L	97
32) ethyl tert-butyl ether	9.00	59	187055	53.31	ug/L	98
33) 2-butanone	9.33	72	6405	59.43	ug/L	87
34) 1,1-dichloroethane	8.61	63	97751	53.93	ug/L	98
35) chloroprene	8.69	53	67680	49.15	ug/L	96
36) acrylonitrile	8.06	53	82138	277.37	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129660.D
Acq On : 7 Jan 2013 5:55 pm
Operator : ROBERTS
Sample : ICV5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 11 17:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) vinyl acetate	8.59	86	9612	68.96	ug/L		85
38) ethyl acetate	9.31	45	6909	58.28	ug/L		92
39) 2,2-dichloropropane	9.33	77	77138	51.48	ug/L		99
40) cis-1,2-dichloroethene	9.34	96	64968	52.36	ug/L		99
41) propionitrile	9.47	54	66452	544.35	ug/L		99
42) bromochloromethane	9.66	130	42890	55.87	ug/L		97
43) tetrahydrofuran	9.68	72	7366	58.64	ug/L		99
44) chloroform	9.71	83	100750	51.43	ug/L		99
45) tert-Butyl Formate	9.72	59	45841	57.61	ug/L		99
48) freon 113	6.87	151	36591	51.99	ug/L		91
49) methacrylonitrile	9.62	67	21251	56.19	ug/L		98
50) 1,1,1-trichloroethane	9.93	97	78996	51.12	ug/L		99
51) Cyclohexane	9.98	84	68140	50.26	ug/L	#	98
52) 2,2,4-trimethylpentane	10.31	57	163808	47.65	ug/L		99
53) tert-amyl methyl ether	10.37	73	171364	53.47	ug/L		98
55) epichlorohydrin	12.01	57	24665	279.88	ug/L		98
56) n-butyl alcohol	10.89	56	83375	2769.62	ug/L		98
57) carbon tetrachloride	10.12	117	69329	51.18	ug/L		100
58) 1,1-dichloropropene	10.11	75	67336	52.88	ug/L		98
59) hexane	8.27	57	57127	49.29	ug/L		100
60) Tert Amyl Alcohol	10.26	73	33723	544.90	ug/L	#	81
61) benzene	10.38	78	210949	50.42	ug/L		100
62) heptane	10.48	57	34212	50.41	ug/L		98
63) isopropyl acetate	10.28	61	21704	56.07	ug/L	#	27
64) 1,2-dichloroethane	10.42	62	65731	52.15	ug/L		97
65) trichloroethene	11.07	95	55912	54.32	ug/L		97
66) ethyl acrylate	11.07	55	61983	57.62	ug/L		99
67) 2-nitropropane	11.88	41	14184	51.08	ug/L		97
68) 2-chloroethyl vinyl ether	11.86	63	83231	288.16	ug/L		99
69) methyl methacrylate	11.33	69	36606	57.11	ug/L		94
70) 1,2-dichloropropane	11.36	63	55572	53.79	ug/L		98
71) methylcyclohexane	11.25	83	71828	48.25	ug/L		98
72) Tert-amyl ethyl ether	11.19	59	274213	104.95	ug/L		99
73) dibromomethane	11.53	93	36527	55.00	ug/L		97
74) bromodichloromethane	11.64	83	80550	53.72	ug/L		99
75) cis-1,3-dichloropropene	12.08	75	93681	53.55	ug/L		96
77) 4-methyl-2-pentanone	12.17	58	20486	56.49	ug/L		98
78) toluene	12.41	91	220442	50.80	ug/L		99
79) 3-methyl-1-butanol	12.19	70	30052	1070.25	ug/L		100
80) trans-1,3-dichloropropene	12.63	75	83096	54.47	ug/L		98
81) ethyl methacrylate	12.59	69	66698	54.26	ug/L		99
82) 1,1,2-trichloroethane	12.85	83	42650	56.67	ug/L		97
83) 2-hexanone	13.00	58	19722	57.74	ug/L		96
85) tetrachloroethene	12.97	166	59689	52.00	ug/L		97
86) 1,3-dichloropropane	13.02	76	76619	52.56	ug/L		98
87) butyl acetate	13.05	56	32464	56.54	ug/L		97
88) dibromochloromethane	13.29	129	63848	52.80	ug/L		98
89) 1,2-dibromoethane	13.44	107	53053	55.63	ug/L		97
90) 3,3-Dimethyl-1-Butanol	13.17	57	52953	531.45	ug/L		99
91) chlorobenzene	13.86	112	149122	52.00	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129660.D
Acq On : 7 Jan 2013 5:55 pm
Operator : ROBERTS
Sample : ICV5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 11 17:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,1,1,2-tetrachloroethane	13.92	131	55815	51.87	ug/L	99
93) ethylbenzene	13.90	91	232902	50.67	ug/L	99
94) m,p-xylene	14.00	106	177559	99.83	ug/L	94
95) o-xylene	14.42	91	200484	50.98	ug/L	97
96) styrene	14.43	104	157659	52.45	ug/L	98
97) bromoform	14.72	173	43076	53.39	ug/L	97
99) isopropylbenzene	14.74	105	226918	50.26	ug/L	98
101) bromobenzene	15.16	156	66415	51.08	ug/L	97
102) cyclohexanone	14.96	55	72576	477.19	ug/L	98
103) 1,1,2,2-tetrachloroethane	15.09	83	61543	50.34	ug/L	98
104) trans-1,4-dichloro-2-buten	15.13	53	15174	52.30	ug/L	93
105) 1,2,3-trichloropropane	15.16	110	14879	51.39	ug/L	95
106) n-propylbenzene	15.14	91	264596	50.91	ug/L	99
107) 4-Ethyltoluene	15.24	105	215205	50.07	ug/L	99
108) 2-chlorotoluene	15.30	126	54997	51.02	ug/L	96
109) 4-chlorotoluene	15.40	91	168604	49.43	ug/L	98
110) 1,3,5-trimethylbenzene	15.28	105	185868	49.53	ug/L	99
111) tert-butylbenzene	15.63	119	160943	50.98	ug/L	99
112) pentachloroethane	15.74	167	43708	51.20	ug/L	98
113) 1,2,4-trimethylbenzene	15.68	105	195122	50.72	ug/L	100
114) sec-butylbenzene	15.84	105	233176	49.65	ug/L	100
115) 1,3-dichlorobenzene	16.05	146	122396	51.81	ug/L	98
116) p-isopropyltoluene	15.96	119	204757	52.89	ug/L	99
117) 1,4-dichlorobenzene	16.14	146	119072	50.44	ug/L	98
118) 1,2-dichlorobenzene	16.53	146	116972	51.50	ug/L	99
119) n-butylbenzene	16.37	134	45348	53.35	ug/L	95
120) p-Diethylbenzene	16.34	119	117743	50.84	ug/L	99
121) 1,2-dibromo-3-chloropropan	17.32	157	13685	55.92	ug/L	92
122) 1,3,5-Trichlorobenzene	17.46	180	95567	52.23	ug/L	100
123) 1,2,4-trichlorobenzene	18.11	180	89920	56.54	ug/L	98
124) 1,2,4,5-tetramethylbenzene	17.12	119	205083	52.64	ug/L	98
125) hexachlorobutadiene	18.20	225	45155	50.75	ug/L	100
126) naphthalene	18.41	128	178171	56.38	ug/L	99
127) 1,2,3-trichlorobenzene	18.66	180	78103	55.54	ug/L	98
128) hexachloroethane	16.76	119	42390	50.32	ug/L	97
129) Benzyl chloride	16.26	91	121632	54.99	ug/L	99

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

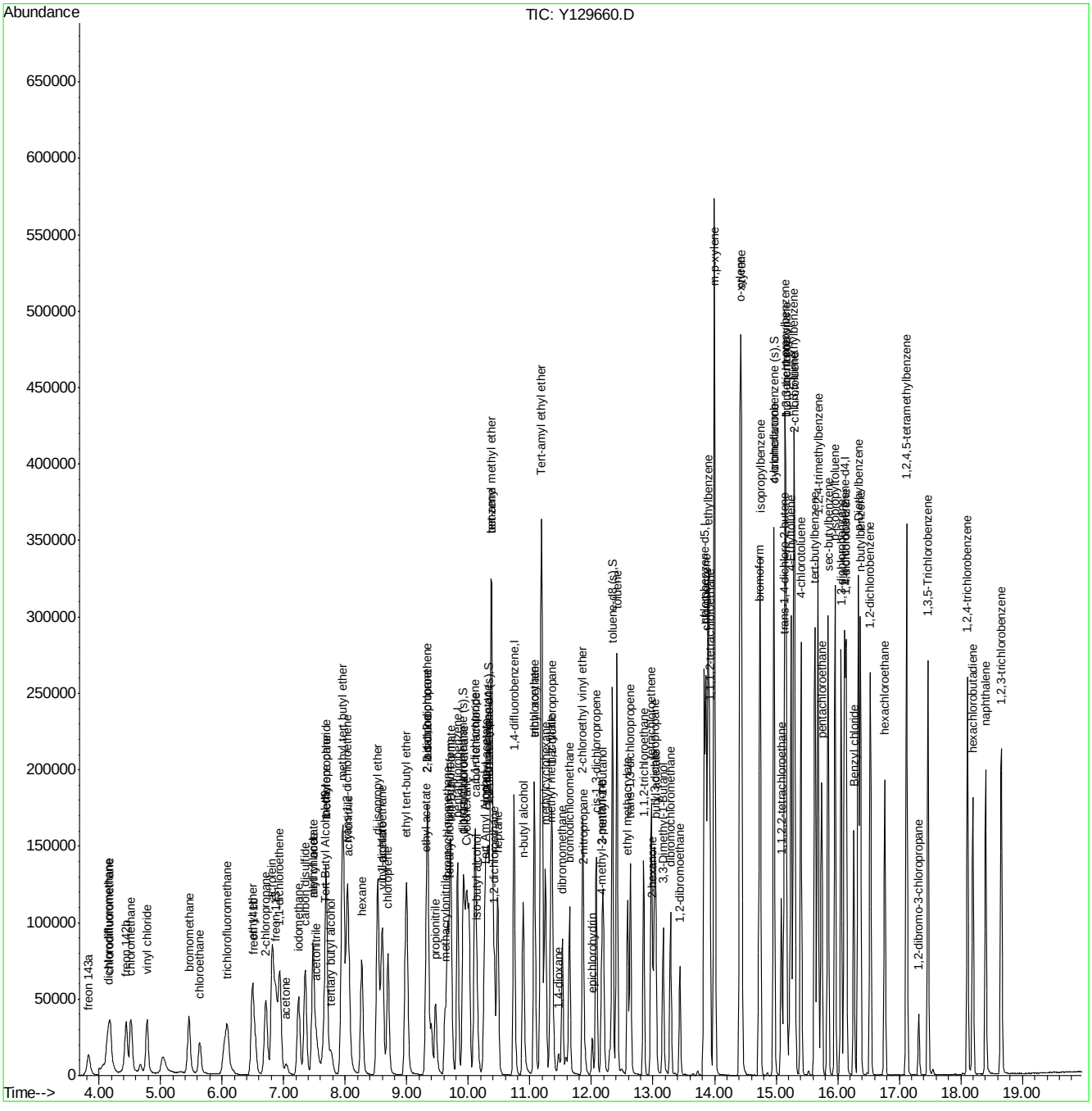
7.7.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\olddata\Y129000-129999\
Data File : Y129660.D
Acq On : 7 Jan 2013 5:55 pm
Operator : ROBERTS
Sample : ICV5578-50
Misc : MS40825,VY5578,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 11 17:03:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



ACCUTEST LABORATORIES JB28370

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131343.D
Acq On : 25 Feb 2013 10:25 am
Operator : ROBERTS
Sample : CC5578-20
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 15:13:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.65	65	49802	500.00	ug/L	0.00
4) pentafluorobenzene	9.82	168	111311	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.74	114	160156	50.00	ug/L	0.00
84) chlorobenzene-d5	13.83	117	124759	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.11	152	60479	50.00	ug/L	0.00

System Monitoring Compounds						
46) dibromofluoromethane (s)	9.91	113	45818	53.35	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.70%			
47) 1,2-dichloroethane-d4 (s)	10.33	65	45166	52.03	ug/L	0.00
Spiked Amount 50.000	Range 70 - 122		Recovery = 104.06%			
76) toluene-d8 (s)	12.34	98	148270	53.26	ug/L	0.00
Spiked Amount 50.000	Range 81 - 127		Recovery = 106.52%			
100) 4-bromofluorobenzene (s)	14.96	95	49952	49.21	ug/L	0.00
Spiked Amount 50.000	Range 66 - 132		Recovery = 98.42%			

Target Compounds						Qvalue
2) 1,4-dioxane	11.47	88	4560	463.13	ug/L #	84
3) tertiary butyl alcohol	7.76	59	11275	98.20	ug/L	90
8) chlorodifluoromethane	4.18	51	14003	16.50	ug/L	94
9) dichlorodifluoromethane	4.15	85	21465	18.23	ug/L	99
10) chloromethane	4.51	50	21035	17.24	ug/L	98
11) vinyl chloride	4.77	62	20321	18.66	ug/L	99
12) bromomethane	5.46	94	14681	21.09	ug/L	98
13) chloroethane	5.63	64	10130	20.31	ug/L	96
15) trichlorofluoromethane	6.08	101	29571	21.82	ug/L	97
16) ethyl ether	6.48	74	10001	18.10	ug/L	87
17) 2-chloropropane	6.71	63	6189	19.08	ug/L	95
18) acrolein	6.81	56	31401	195.43	ug/L	93
19) 1,1-dichloroethene	6.92	61	22345	18.42	ug/L	90
20) acetone	7.05	58	1153	16.40	ug/L	90
21) allyl chloride	7.47	76	9427	18.24	ug/L	93
22) acetonitrile	7.53	40	7849	216.64	ug/L #	79
23) iodomethane	7.23	142	30833	18.09	ug/L	99
24) iso-butyl alcohol	10.15	41	6759	229.22	ug/L	93
25) carbon disulfide	7.34	76	47577	17.45	ug/L	97
26) 1-chloropropane	7.68	63	1294	19.54	ug/L #	1
27) methylene chloride	7.68	49	24949	20.18	ug/L	95
28) methyl acetate	7.47	74	2550	20.48	ug/L #	84
29) methyl tert butyl ether	7.96	73	51888	18.95	ug/L	98
30) trans-1,2-dichloroethene	8.03	61	22192	19.23	ug/L	96
31) di-isopropyl ether	8.52	45	58986	19.63	ug/L	99
32) ethyl tert-butyl ether	8.99	59	58552	19.59	ug/L	99
33) 2-butanone	9.33	72	1780	19.38	ug/L	59
34) 1,1-dichloroethane	8.60	63	30114	19.50	ug/L	96
35) chloroprene	8.69	53	21556	18.37	ug/L	96
36) acrylonitrile	8.05	53	27658	109.62	ug/L	95
37) vinyl acetate	8.59	86	2250	18.94	ug/L #	81
38) ethyl acetate	9.31	45	2562	25.36	ug/L	72
39) 2,2-dichloropropane	9.32	77	24305	19.04	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131343.D
Acq On : 25 Feb 2013 10:25 am
Operator : ROBERTS
Sample : CC5578-20
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 15:13:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) cis-1,2-dichloroethene	9.34	96	18778	17.76	ug/L		96
41) propionitrile	9.47	54	21924	210.78	ug/L		91
42) bromochloromethane	9.66	130	12844	19.64	ug/L		94
43) tetrahydrofuran	9.69	72	2398	22.41	ug/L		96
44) chloroform	9.70	83	31134	18.65	ug/L		97
45) tert-Butyl Formate	9.72	59	13767	20.31	ug/L		97
48) freon 113	6.87	151	11338	18.91	ug/L		95
49) methacrylonitrile	9.62	67	5992	18.59	ug/L		92
50) 1,1,1-trichloroethane	9.93	97	25643	19.48	ug/L		98
51) Cyclohexane	9.97	84	21316	18.45	ug/L	#	98
52) 2,2,4-trimethylpentane	10.30	57	53900	18.40	ug/L		92
53) tert-amyl methyl ether	10.37	73	53795	19.70	ug/L		97
55) epichlorohydrin	12.01	57	7466	101.06	ug/L		94
56) n-butyl alcohol	10.89	56	26674	1057.00	ug/L		93
57) carbon tetrachloride	10.11	117	23295	20.51	ug/L		98
58) 1,1-dichloropropene	10.10	75	20325	19.04	ug/L		98
59) hexane	8.27	57	17447	17.96	ug/L		93
61) benzene	10.37	78	61620	17.57	ug/L		98
62) heptane	10.48	57	10832	19.04	ug/L		94
63) isopropyl acetate	10.28	61	7136	21.99	ug/L	#	29
64) 1,2-dichloroethane	10.42	62	22208	21.02	ug/L		93
65) trichloroethene	11.07	95	16083	18.64	ug/L		95
67) 2-nitropropane	11.88	41	5142	22.09	ug/L		94
68) 2-chloroethyl vinyl ether	11.86	63	31600	130.51	ug/L		97
69) methyl methacrylate	11.33	69	10576	19.68	ug/L		84
70) 1,2-dichloropropane	11.35	63	17161	19.81	ug/L		99
71) methylcyclohexane	11.25	83	23163	18.56	ug/L		93
73) dibromomethane	11.53	93	10772	19.35	ug/L		99
74) bromodichloromethane	11.64	83	24023	19.11	ug/L		97
75) cis-1,3-dichloropropene	12.08	75	28079	19.15	ug/L		95
77) 4-methyl-2-pentanone	12.16	58	6486	21.33	ug/L		89
78) toluene	12.41	91	61581	16.93	ug/L		97
79) 3-methyl-1-butanol	12.19	70	9808	416.67	ug/L		97
80) trans-1,3-dichloropropene	12.63	75	25351	19.82	ug/L		96
81) ethyl methacrylate	12.59	69	19689	19.11	ug/L		93
82) 1,1,2-trichloroethane	12.84	83	12094	19.17	ug/L		97
83) 2-hexanone	13.00	58	5748	20.07	ug/L		96
85) tetrachloroethene	12.97	166	17301	19.22	ug/L		97
86) 1,3-dichloropropane	13.02	76	23756	20.79	ug/L		97
87) butyl acetate	13.04	56	9652	21.44	ug/L		92
88) dibromochloromethane	13.28	129	20175	21.28	ug/L		95
89) 1,2-dibromoethane	13.43	107	15391	20.58	ug/L		93
90) 3,3-Dimethyl-1-Butanol	13.16	57	16037	205.27	ug/L		99
91) chlorobenzene	13.86	112	41548	18.48	ug/L		99
92) 1,1,1,2-tetrachloroethane	13.92	131	16971	20.12	ug/L		99
93) ethylbenzene	13.90	91	64310	17.84	ug/L		99
94) m,p-xylene	14.00	106	48885	35.05	ug/L		99
95) o-xylene	14.41	91	54613	17.71	ug/L		100
96) styrene	14.43	104	40992	17.39	ug/L		98
97) bromoform	14.72	173	13619	21.53	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131343.D
Acq On : 25 Feb 2013 10:25 am
Operator : ROBERTS
Sample : CC5578-20
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 15:13:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.74	105	61729	17.37	ug/L	98
101) bromobenzene	15.16	156	18381	17.96	ug/L	97
102) cyclohexanone	14.96	55	15969	133.43	ug/L	91
103) 1,1,2,2-tetrachloroethane	15.08	83	18394	19.12	ug/L	94
104) trans-1,4-dichloro-2-buten	15.13	53	4308	18.87	ug/L	97
105) 1,2,3-trichloropropane	15.16	110	4941	21.69	ug/L	96
106) n-propylbenzene	15.14	91	71025	17.37	ug/L	98
108) 2-chlorotoluene	15.30	126	15792	18.62	ug/L	96
109) 4-chlorotoluene	15.40	91	46116	17.18	ug/L	98
110) 1,3,5-trimethylbenzene	15.29	105	51584	17.47	ug/L	99
111) tert-butylbenzene	15.63	119	43308	17.43	ug/L	97
112) pentachloroethane	15.74	167	12410	18.47	ug/L	93
113) 1,2,4-trimethylbenzene	15.68	105	51851	17.13	ug/L	93
114) sec-butylbenzene	15.84	105	62406	16.89	ug/L	100
115) 1,3-dichlorobenzene	16.05	146	31922	17.17	ug/L	99
116) p-isopropyltoluene	15.96	119	50679	16.64	ug/L	99
117) 1,4-dichlorobenzene	16.13	146	31648	17.04	ug/L	97
118) 1,2-dichlorobenzene	16.53	146	31055	17.38	ug/L	96
119) n-butylbenzene	16.36	134	11353	16.97	ug/L	97
121) 1,2-dibromo-3-chloropropan	17.32	157	3848	19.98	ug/L	91
122) 1,3,5-Trichlorobenzene	17.46	180	24817	17.24	ug/L	99
123) 1,2,4-trichlorobenzene	18.11	180	21012	16.79	ug/L	98
125) hexachlorobutadiene	18.20	225	13402	19.14	ug/L	99
126) naphthalene	18.40	128	38600	15.52	ug/L	97
127) 1,2,3-trichlorobenzene	18.66	180	19504	17.63	ug/L	93
128) hexachloroethane	16.76	119	12273	18.51	ug/L	97
129) Benzyl chloride	16.26	91	30121	17.31	ug/L	99

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

7.7.35

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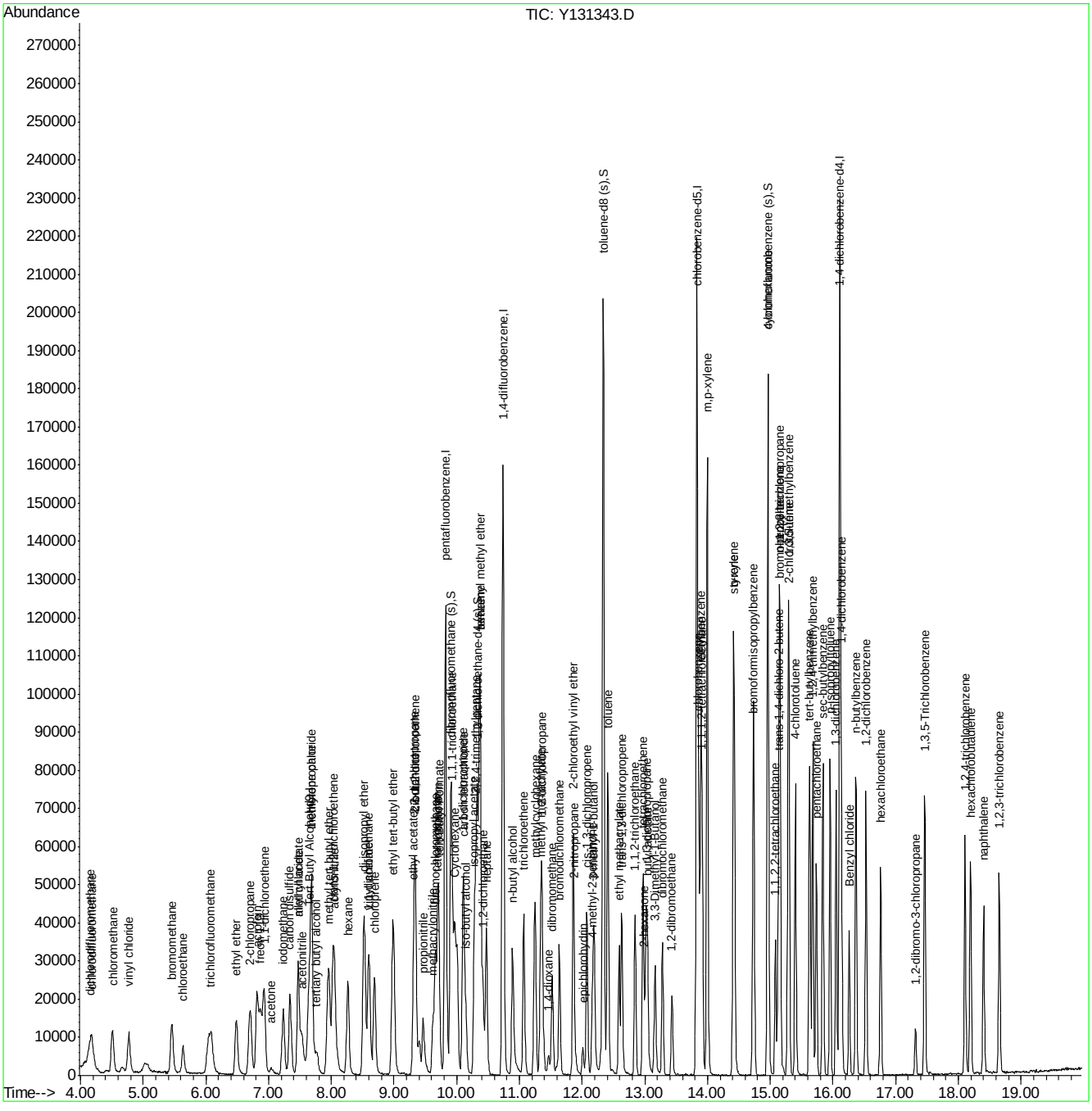
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : Y131343.D
Acq On : 25 Feb 2013 10:25 am
Operator : ROBERTS
Sample : CC5578-20
Misc : MS43000,VY5654,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 25 15:13:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\MY5578.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 11 17:03:48 2013
Response via : Initial Calibration



MY5578.M Mon Feb 25 15:13:16 2013 RPT1 Page: 4

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	100 ppm
-43	B	
-93	C	
-92	Acrolein	100 ppm
-94	Surrogate	100 ppm

Standard Data

Lot #	Description	Conc.
VD2-MT2-126	Int only	100 ppm
VD2-MT2-52	STDA	
-72	B	
-95	C	
-74	Int Acrolein	100 ppm

Pentane VD2-MT2-119 100 ppm MSUF OR-1992-120 100 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: [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 Pentane, MSUF AB, Acrolein, Surrogate → 10ul	
	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 Pentane, MSUF AB, Acrolein, Surrogate → 5ml	
	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	degrade due to pentane allowed Pentane, MSUF 25ul ~~EXT~~ AB, Acrolein, Surrogate → 5ml	
													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

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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 (Acrolein)	

Standard Data

Lot #	Description	Conc.
042423	Lot 1C/C	250/250ppm
-55	624A	100ppm
-72	B	
-95	C	
-74	Lot 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	CCB8379-20				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	1C	4	7	6.4/5	100					~~OK~~ clip		
R	205405	JB28137-1	42954 TCLP	1C	1	8	6/10	10					OK		
R	205406	JB28137-1			1	9	6/10	1					Not Heel		
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(1)	43031 SC	SC	B2	15	6.9/10	100					OK	25ul ABC Acrolein → 80	
	205413	JB28374-2(1)			2	16	6.9/10	100					OK		
	205414	IB				17	S/S						clip		

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: 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: [illegible] 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	8260 SC	SW	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

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7.8.2

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8381

Print Analyst Name: Smith T

Analyst Signature: [signature]

Date: 2/13/12 (Wed)

Columns: DB624 (60m x 0.25mm x 1.4µm)

Method 8260

Initial Cal. Method MD8379

Standard Data

Lot #	Description	Conc.
CL1472	CTDA	100ppm
-93	B	
-93	C	
-93	Acolein	100ppm
DH1187	Methyl Chloroethyl ether	

Standard Data

Lot #	Description	Conc.
CL1472	Int/Sur	250ppm
-55	EDTA	100ppm
-72	B	
-95	C	
-24	Acolein	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: 2/14/2013

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
	D205422	~~BFB~~				1							ok		8:00 Am
	205423	CL83720				2							ok	DILAB CAcolein → 55	
	205424	LB				3	5/5				✓		clip		
	205425	MB				4	5/5				✓	✓	ok	DBpoor #24	
	205426	BS				5	5/5				✓		ok	25ml ~~LAB CAcolein~~ → 55	
	205427	LB				6	5/5				✓		clip		
R	205428	JB28374-6	43031 SL	SU	2	7	7/10	100			✓		ok		
R	205429	JB28374-7	↓		2	8	7.1/10	100			✓		ok		
R	205430	JB28374-8	↓		2	9	6.5/10	100			✓		ok		
R	205431	JB28180-8	42963 BTX	SU	3	10	4.2/5	5			✓		ok		
	205432	JB28010-6	43050 TCLH	SU	1	11	10.1/10	2			✓	✓	ok DL		
	205433	JB28374-6MS	43031 SL	SU	2	12	7/10	100			✓		ok	25ml ~~AB CAcolein~~ → 55	
	205434	JB28374-6MSD	↓		2	13	7/10	100			✓		ok	↓	
DL	205435	~~JB28108-3A~~ ~~1b~~	42868 TCLH+ EACE		8	14	~~5/5~~ 10.1/10	2ml	50		✓		ok	JB28106-6 HS 42854	
DL	205436	~~JB28108-3A~~ ~~JB28037-5~~	42950 STAR		2	15	5/5	~~2ml~~ ~~10ul~~	25x		✓		ok	JB28137-5 HS 42868 TCLH+	
DL	205437	JB28137-5 ~~JB28108-3A~~	↓		2	16	~~5/10~~ 5/5	2 100	~~25~~		✓		ok	JB28108-3A TCLH+ EACE.	
DL	205438	~~JB28370-1~~	43128 SL3	SU	3	17	~~4.4/5~~ 5/5	~~100~~	20x		✓		ok	JB28108-3A	↓

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: VD8381

Date: 2/13/12 (4x10)

Print Analyst Name: Smith T

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 2 of 5	

Columns: DB624 (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: [signature] Date: 2/14/2013

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
	205439	~~JB28370-2~~	42128 SC3	W	3	18	~~5.7/5.5~~	100			✓		ok	~~JB28404 recut~~ J13284-2	7 "c"
	205440	JB28370-3	↓	↓	3	19	S/S	100			✓	✓	ok		TR
	205441	JB28370-5	↓	↓	3	20	S/S	10			✓	✓	HG	low level	
	205442	~~JB28095-4~~ JB	42150 STAR	50	2	21	S/S	100 ~~40ul~~			✓		ok		
	205443	~~JB28095-3~~ JB	↓	↓	2	22	S/S	40ul			✓		ok		
	205443A	ZB				23									
	205443B	ZB				24									
	205443C	ZB				25									

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: VD8383

Date: 2/14/13 (THURS)

Print Analyst Name: Emily T

Analyst Signature: Emily Tran

Columns: DB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method VD8379

Standard Data

Lot #	Description	Conc.
W142-31	STDA	100ppm
-95	B	
-93	C	
-92	Acrolein	100ppm
HH67	Mobil (Honeywell)	

Standard Data

Lot #	Description	Conc.
W142-95	Int/Surr	25 or 50ppm
-55	Std A	100ppm
-72	B	
-95	C	
-24	Std 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:** 2/15/2013

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
	D205455	BFB				1							ok	8:24AM	
	205456	CC8379-20				2							MG	10ul A,B,C, Acrolein → 50	
	205457	CC8379-20				3							ok	↓	
	205458	ZB				4	5/5				✓		clip		
	205459	MB				5	5/5			✓	✓	✓	ok	Dispense #24	TR
	205460	IB3				6	5/5				✓		ok	25ul A,B,C, Acrolein → 55	
	205461	IB				7	5/5				✓		clip		
	205462	JB28423-3	43044 TCLP	SW	4	8	4.4/5	100				✓	ok		
	205463	JB28633-48	43191 TCLP	SW	3	9	4.1/5	100		✓	✓		ok/DL	RR 10X	
	205464	JB28026-1R	43220 TCLP	SW	4	10	4.9/5	100		✓	✓		ok		
	205465	JB28543-2	43160 TCLP	SW	3	11	6.4/5	100		✓	✓		ok/DL	RR 50X	
	205466	JB28605-5	43192 BENZ	SW	2	12	10/10	100			✓		ok		
	205467	JB28044-7MS	43161 TCLP	SW	3	13	5.3/5	100			✓		ok	25ul A,B,C, Acrolein → 55	
	205468	JB28044-7MSD	↓	↓	3	14	5.3/5	100			✓	✓	ok	↓	TR
	205469	IB				15	5/5				—				
ok	205470	JB28044-7	43161 TCLP	SW	3	16	5.3/5	100			—		ok	+ C core	
ok	205471	JB28633-8	42954 TCLP	SW	2	17	5.9/5	100			—		ok	+ 3C core	

ITX = 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; = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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7.8.4

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD8383

Date: 2/14/13 (THURS)

Print Analyst Name: Sally T

Analyst Signature: [signature]

Columns: DB624 (60m x0.25mm x1.4um)

Method 8260

Initial Cal. Method MD8379

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Del page 261	

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: 2/15/2013

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
	D205472	JB28370-1	43126 SC3	SW	3	18	4.4/5	100					ok/R	→ go to low level	put into folder
	205473	JB28370-2	↓	↓	3	19	4.7/5	100		✓			ok	~~→ go to low level~~	2/14/13
	205474	JB28626-2	43205 TCLIP	SW	3	20	9.7/10	20 ~~100~~		✓			ok/R	Did foam test 1x, 2x Dilution due to foaming	low level. put in folder
	205475	JB28632-1	43203 TCLIP	SW	2	21	4.7/10	100 2/14/13					ok/R	→ go to low level	put into folder
✓	205476	~~JB28547-1~~ 2/14/13	43145 TCLIP	jw/s	3	22	~~10~~/10 4.1/5	~~100~~ 10 2/14/13		✓			ok	JB28603-4B	MS 43141 TCLIP
✓	205477	~~JB28547-2~~ 2/14/13	↓	jw/↓	3	23	~~10~~/10 4.7/5	~~100~~ 2 2/14/13		✓			ok	JB28043-2	MS 43160 TCLIP 7.5/PM
	205478	IB				24	5/5						clip		
	205479	IB				25	5/5						↓		

Y. L 2/15/2013

X = 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 e
computer miscalculation; 4 = analyst's correction error

n: OR001-9
Date: 2/14/2007

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7.8.4

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VD 8383 (02/14/13)

Print Analyst Name: Emily T

Analyst Signature: [signature]

Date: 2/14/13 (THURS)

Columns: DB624 (30m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method VD8379

Standard Data

Lot #	Description	Conc.
[illegible]	STD A	100ppm
-43	B	
-93	C	
-92	Halon	100ppm
DH 187	Meoh (Methanol)	

Standard Data

Lot #	Description	Conc.
[illegible]	Int Std	250/1500ppm
-53	Std A	100ppm
-72	B	
-95	C	
-74	Int Halon	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: 2/15/2013

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
	D205480	BFB				26							ok	9:18 pm	
	205481	CC8379-50				27							ok	25ml AB, Acolin 50	
	205482	IB				28	5/5				—		ok	p	
	205483	MB2				29	5/5			✓	—		ok	Dispense #24	
✓	205484	JB28547-3	43148 Trent	S	2	30	9.5/10	100			—		ok	+ I Core	
	205485	JB28629-1	43202 PAINTMB	Sli	2	31	6.3/10	100			—		ok		
	205486	JB28629-2			2	32	7.1/10	100			—		ok/ok	PRIOX	
	205487	JB28629-4			2	33	5.5/10	100			—		ok/ok	PRIOX	
	205488	JB28629-5			2	34	7.1/10	100			—		Mn	PRIX passenger	
	205489	JB28547-1	43148 Trent	S	2	35	5.5/10	100		✓	—		ok/ok	PR50X	
	205490	JB28547-2			2	36	5.5/10	100		✓	—		ok/ok	PR 2X Compound	
	205491	IB				37	5/5				—		ok	p	
	205492	IB				38	5/5				—		d		
														Y 2 2/15/2013	

ITX = 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.

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Form: OR001-9
Rev. Date: 2/14/2007

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7.8.4

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-7266

Date: 12/28/12

Print Analyst Name: SCOTT McGONIGAL

Analyst Signature:

Columns: ZB 624

Method SW 846-8260

Initial Cal. Method MI-7266

Standard Data

Lot #	Description	Conc.
V012-1472-10	BFB	25 µg
V012-1440-139	8260 A	100 µg
V012-1440-141	B	
V012-1472-07	C	
V012-1472-01	ACRL	100 µg

Standard Data

Lot #	Description	Conc.
V012-1440-146	INT. STD	250 µg
V012-1472	INT. STD/SUR	
V012-1440-146	EXT. A	100 µg
V012-1472-08	B	
V012-1472-09	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: DW Date: 12/28

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
	I179916	BFB											ok		
	I179917	IC7266-0.5	8260	S			5.0						ok	A,B,C, ACR, SURR 0.5ml of STDS. TO 100ml	
	I179918	IC7266-1											ok	" 1.0ml	"
	I179919	IC7266-2											ok	" 2.0ml	"
	I179920	IC7266-5											ok	" 5.0ml	"
	I179921	IC7266-10											ok	" 10ml	"
	I179922	IC7266-20											ok	A,B,C,ACR, SURR 10ml of STDS. TO 50ml	
	I179923	IC7266-50											ok	"	"
	I179924	IC7266-100											ok	"	"
	I179925	IC7266-200											ok	"	"
	I179926	IB													
	I179927	ICV7266-50											ok	A,B,C,ACR,SUR 25ml of STDS. TO 50ml	
	I179928	IB													
	I179929	BFB2				18	–						ok	~~[illegible]~~ 5" of	
	I179930	CC7266-20	8260			19	5.0						ok	A,B,C,ACR 10ml of STDS. TO 50ml	
	I179931	IB				21									
	I179932	MB1				22					✓		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

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7.8.5

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI- 7266

Date: 12/28/12

Print Analyst Name: SCOTT MCGONIGAL

Analyst Signature:

Standard Data

Lot #	Description	Conc.
	Pg. 289	

Standard Data

Lot #	Description	Conc.

Columns: 2B 624

Method SW846-8260

Initial Cal. Method MI- 7266

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: 12/28

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
	I179933	BS	8260	S		23	5.0				✓	✓	ok	ABIC/ACD 25ml of STDS. TO 50	
	I179934	TB				24									
	I179935	JB24657-5	VSCO	S	2	25	4.5				✓		ok		
	I179936	JB24657-5ms				26					✓	✓	ok	ABIC/ACD 25ml of STDS. TO 50ml	
	I179937	JB24657-5sd				27					✓		ok	"	
	I179938	TD				28									
	I179939	JB24320-2R	VTU4		7	29	2.1			15 +	✓		ok		
	I179940	JB24320-3				30	4.8			+	✓	✓	ok		
	I179941	JB24320-11			4	31	5.5			+	✓	✓	ok		
	I179942	JB24320-13			4	32	4.2			+	✓	✓	ok		
	I179943	JB24332-8			4	33	5.4			+	✓	✓	ok		
	I179944	JB24332-9			4	34	5.3			+	✓	✓	ok		
	I179945	JB24082-7	VTU#1		5	35	5.9			+	✓	✓	ok		
	I179946	JB24082-11				36	6.4			+	✓	✓	ok		
	I179947	JB24082-12				37	6.1			+	✓	✓	ok		
	I179948	JB25071-1			6	38	5.7			+	✓	✓	ok		
	I179949	JB25071-2			4	39	5.3			+	✓	✓	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

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI - 7266

Date: 12/28/12

Print Analyst Name: SCOTT McGonigal

Analyst Signature:

Columns: 2B-624

Method SW 846 - 8260

Initial Cal. Method MI- 7266

Standard Data

Lot #	Description	Conc.
	PM, 284	

Standard Data

Lot #	Description	Conc.

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: 12/28

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
	FB				6										
	I179950	JB25071-3		S	6	40	5.8			+			ok		
	I179951	DB				41									

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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7.8.5

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-7333

Date: 2/15/13

Print Analyst Name: SCOTT MISSONGAL

Analyst Signature:

Columns: 2B-624

Method SW846-8260

Initial Cal. Method MI-7266

Standard Data

Lot #	Description	Conc.
V012-1472-104	8260 A	100µg
V012-1472-112	B	
V012-1472-134	C	
V012-1472-115	ASROL	100µg
V012-1472-133	IW7-STD/SUR	250µg

Standard Data

Lot #	Description	Conc.
V012-1472-114	EXT A	100µg
V012-1472-128	B	
V012-1472-142	C	
V012-1472-117	ASROL	1000µg

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: 2/15

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
	I181527	BFB											ok	12°°	
	I181528	CC7266-50	8260	5			5.0						ok	AB,C,ACR 25ml OF STDS TO 50ml	
	I181529	IB													
	I181530	MB1									✓	✓	ok		
	I181531	BS									✓	✓	ok	A,B,C,ACR 25ml OF STDS TO 50	
	I181532	IB				12									
	I181533	JB28724-1	VTSL1	5		13	5.8			H	✓	✓	ok	/CF	
	I181534	JB28724-10		5		14	6.4			H	✓	✓	ok		
	I181535	JB28724-21		4		15	4.0			H	✓	✓	ok		
	I181536	JB28724-23		5		16	5.9			H	✓	✓	RR	/CF	
	I181537	JB28724-29				17	5.7			H	✓	✓	ok		
	I181538	JB28724-36				18	4.7			H	✓	✓	ok		
	I181539	JB28724-44				19	5.5			H	✓	✓	ok		
	I181540	JB28724-49				20	4.4			H	✓	✓	ok		
	I181541	JB28724-50		4		21	5.1			H	✓	✓	ok		
	I181542	JB28724-66		4		22	6.3			H	✓	✓	ok		
	I181543	JB28724-26		5		23	5.2			H	✓	✓	RR	/CF	

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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7.8.6

7

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VI-7333

Date: 2/15/13

Print Analyst Name: SCOTT McGOWAN

Analyst Signature:

Columns: ZB-624

Method SW846-8260

Initial Cal. Method MT-7266

Standard Data

Lot #	Description	Conc.
	Pg 285	

Standard Data

Lot #	Description	Conc.

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: 2/15

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
	I181544	JB28370-5	VSL3	S	4	24	5.0			N	✓	✓	ok	KF - SMG	
	I181545	JB28828-2	VTCL1		6	25	7.1			N	✓	✓	ok		
	I181546	JB28832-5 ~~JB28828-5~~			4	26	5.0			N	✓	✓	ok		
	I181547	JB28636-4	VTCL		2	27	4.6			N	✓	✓	ok		
	I181548	JB28636-4				28					✓	✓	ok	A,B,C ACR 25ml of STDS. TO 50ml	
	I181549	JB28636-4				29					✓	✓	ok		
	I181550	TB				30									

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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7.8.6

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VY5578

Print Analyst Name: Robert Scot

Analyst Signature: [signature]

Date: 1/7/13

Columns: 28-624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method MY5578

Standard Data

Lot #	Description	Conc.
VOL-1442-139	8260A	100-100ppm
VOL-1472-41	8260B	100-500ppm
VOL-1472-29	8260C	100ppm
VOL-1443-136	8260 INT. ONLY	250-1500ppm
VOL-1442-21	Acrolein	1000ppm

Standard Data

Lot #	Description	Conc.
VOL-1442-14	Ext A	100-100ppm
VOL-1442-08	Ext B	100-500ppm
VOL-1472-18	Ext C	100ppm
VOL-1443-11	8260 Surrogate	100ppm
VOL-1472-24	Ext A Acrolein	100ppm
VOL-1472-43	Ext B	100-500ppm
VOL-1472-26	F1418, F1428, F143A	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:** 1/10

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
	Y129648	BFB				1	5						ok		
	Y129649	IC5578-10	8260 Std. 1 Initial (100ppm)			2	5						ok	5ml A,B,C, Acrolein, Surrogate, S, F1418, F1428, F143A → 50ml H2O	
	Y129650	IC5578-5				3	5						ok	5ml A,B,C, Acrolein, Surrogate, S, F1418, F1428, F143A → 100ml H2O	
	Y129651	IC5578-2				4	5						ok	2ml A,B,C, S, Surrogate, 200ml Acrolein, F1418, F1428, F143A → 100ml H2O	
	Y129652	IC5578-1				5	5						ok	1ml A,B,C, S, Surrogate, 100ml Acrolein, F1418, F1428, F143A → 100ml H2O	
	Y129653	IC5578-0.5				6	5						ok	0.5ml A,B,C, Acrolein, Surrogate, S, F1418, F1428, F143A → 100ml H2O	
	Y129654 ~~Y129657~~ 1/7/13	IC5578-20				7	5						ok	10ml A,B,C, Acrolein, S, F1418, F1428, F143A, 25ml surrogate → 50ml H2O	
	Y129655	IC5578-50				8	5						ok	25ml A,B,C, Acrolein, Surrogate, S, F1418, F1428, F143A → 50ml H2O	
	Y129656	IC5578-75				9	5						ok	37.5ml A,B,C, Acrolein, Surrogate, S, F1418, F1428, F143A → 50ml H2O	
	Y129657	IC5578-100				10	5						ok	50ml A,B,C, Surrogate, S, 0.5ml Acrolein, F1418, F1428, F143A → 50ml H2O	
	Y129658	IC5578-200				11	5						ok	100ml A,B,C, Surrogate, S, 1ml Acrolein, F1418, F1428, F143A → 50ml H2O	
	Y129659	IB				12	—						~~ok~~ 1/8/13		
	Y129660	IC5578-50				13	5						ok	25ml Ext A, Ext B, Ext C, Ext Acrolein, S, F1418, F1428, F143A, Surrogate → 50ml H2O	
	Y129661	IB				14							~~ok~~ 1/8/13		
							1/7/13								

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

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VY5654

Print Analyst Name: Robert Szot

Analyst Signature: [signature]

Date: 2/25/13

Columns: 2B-624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method MY5578

Standard Data

Lot #	Description	Conc.
V012-1472-104	8260A	100-1000ppm
V012-1472-112	8260B	100-500ppm
V013-1518-47	8260C	100ppm
V012-1472-135	8260 Istd-IS	250-1500ppm
V012-1472-145	Acrolein	1000ppm

Standard Data

Lot #	Description	Conc.
V012-1472-114	Ext A	100-1000ppm
V013-1518-21	Ext B	100-500ppm
V013-1518-14	Ext C	100ppm
V012-1472-117	Ext Acrolein	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: HS **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
	Y131342	BFB				1	5.0					✓	ok	9:53AM	
	Y131343	CC5578-20				2	5.0					✓	ok	10mlA,B,C,Acrolein → 50ml/120	
	Y131344	MB				3	5.0					✓	ok		
	Y131345	BS				4	5.0					✓	ok	25ul (Ext A, Ext B, Ext C, Ext A Acrolein → 50ml/120	
	Y131346	JB29525-2(FS)	93752 TCL11+	SC	6	5	6.5					✓	ok		
	Y131347	JB29525 ~~JB29525~~ 1CFS	↓		6	6	5.7					✓	ok		
	Y131348	JB29261-2	93585 TCL11+THF		5	7	6.1					✓	ok		
	Y131349	JB29261-6	↓		5	8	6.7					✓	ok		
	Y131350	JB29432-9	93682		4	9	6.5					✓	ok		
	Y131351	JB29432-10	↓		6	10	5.7					✓	ok		
R	Y131352	JB28370-1	93118 SL3		5	11	5.0					✓	ok		
	Y131353	JB29432-9MS	MS		5	12	6.0					✓	ok	2.5ml A,B,C,Acrolein → Sample	
	Y131354	JB29432-10MSD	DSP		5	13	5.8					✓	ok		
	Y131355	JB29432-11	93682 TCL11+ THF		6	14	6.3					✓	ok		
	Y131356	JB29432-12	↓		4	15	6.6					✓	ok		
	Y131357	JB29432-13			4	16	5.8					✓	ok		
	Y131358	JB29432-14	↓		4	17	5.2					✓	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.

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: VY5654

Date: 2/25/13

Print Analyst Name: Robert Szot

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.
	see	page

Standard Data

Lot #	Description	Conc.
33		

Columns: 2B-624/60mx0.25mmx1.4um

Method 8260

Initial Cal. Method MY 5578

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: 2/26

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
	413359	JB29432-15	93682 TCL11+ THF	S	4	18	4.3				✓	✓	OK		
	413360	JB29432-16	↓		4	19	5.2					✓	OK		
	413361	JB29472-1A	93724 TCL11+ 1112S, TBA, Acrol, Acryl		6	20	4.9					✓	OK		
	413362	JB28728-2	93724 TCL11+10		4	21	3.2					✓	OK		
	413363	JB28728-14	↓		4	22	4.4					✓	OK/DL	Mass SME	
	413364	JB28728-18	↓		6	23	4.4					✓	OK		
	413365	JB29432-3	93682 TCL11+ THF		4	24	4.6					✓	OK	9:28pm	
	413366	IB				25						✓	—		
									RS 2/25/13						

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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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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: JB28370
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JB28370-1 **Analyzed:** 19-FEB-13 by KP **Method:** SM2540 G-97
ClientID: AREAEC1_BOT

Wet Weight (Total)	24.83	g
Tare Weight	19.22	g
Dry Weight (Total)	23.36	g
Solids, Percent	73.8	%

Sample: JB28370-2 **Analyzed:** 19-FEB-13 by KP **Method:** SM2540 G-97
ClientID: AREAEC1_SW

Wet Weight (Total)	29	g
Tare Weight	21.53	g
Dry Weight (Total)	27.45	g
Solids, Percent	79.3	%

Sample: JB28370-3 **Analyzed:** 19-FEB-13 by KP **Method:** SM2540 G-97
ClientID: AREAEC2_BOT

Wet Weight (Total)	24.47	g
Tare Weight	18.65	g
Dry Weight (Total)	23.11	g
Solids, Percent	76.6	%

Sample: JB28370-5 **Analyzed:** 19-FEB-13 by KP **Method:** SM2540 G-97
ClientID: AREAEC3_BOT

Wet Weight (Total)	31.45	g
Tare Weight	26.13	g
Dry Weight (Total)	30.09	g
Solids, Percent	74.4	%

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
2/8/2013-2840	JB28370-1.3	33.5000	37.8900	4.3900	2/8/2013 1:13:48 PM	dh187	jp	5ml MeOH	
2/8/2013-2633	JB28370-1.4	34.2800	38.9200	4.6400	2/8/2013 1:13:52 PM	di	ts	DI water	
2/8/2013-2639	JB28370-1.5	34.1600	39.1100	4.9500	2/8/2013 1:13:57 PM	di	ts	DI water	
2/8/2013-2828	JB28370-2.3	33.4100	39.1100	5.7000	2/8/2013 1:14:01 PM	dh187	jp	5ml MeOH	
2/8/2013-2632	JB28370-2.4	34.2600	39.6900	5.4300	2/8/2013 1:14:07 PM	di	ts	DI water	
2/8/2013-2638	JB28370-2.5	33.6500	38.9300	5.2800	2/8/2013 1:14:13 PM	di	ts	DI water	
2/8/2013-2829	JB28370-3.3	33.5200	38.4700	4.9500	2/8/2013 1:14:25 PM	dh187	jp	5ml MeOH	
2/8/2013-2656	JB28370-3.4	33.6400	39.2800	5.6400	2/8/2013 1:14:31 PM	di	ts	DI water	
2/8/2013-2657	JB28370-3.5	33.9100	39.1500	5.2400	2/8/2013 1:14:36 PM	di	ts	DI water	
2/8/2013-2823	JB28370-4.3	33.2700	38.6300	5.3600	2/8/2013 1:14:42 PM	dh187	jp	5ml MeOH	
2/8/2013-2647	JB28370-4.4	33.8900	39.6500	5.7600	2/8/2013 1:14:50 PM	di	ts	DI water	
2/8/2013-2648	JB28370-4.5	34.1100	38.9400	4.8300	2/8/2013 1:14:56 PM	di	ts	DI water	
2/7/2013-2264	JB28370-5.3	32.4200	37.4200	5.0000	2/8/2013 1:15:42 PM	dh187	rs	5ml MeOH	
2/2/2013-253	JB28370-5.4	33.5400	38.5300	4.9900	2/8/2013 1:15:49 PM	DI	FZ	DI water	
2/2/2013-254	JB28370-5.5	34.0000	39.1100	5.1100	2/8/2013 1:15:55 PM	DI	FZ	DI water	