New Jersey
ACCUTEST LABORATORIES

12/19/11

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

Accutest Job Number: JA93968

Sampling Date: 12/05/11

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **334**

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David N. Speis
VP, 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, PA, RI, SC, TN, VA, WV

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Sample Summary

Anderson, Mulholland & Associates

Job No: JA93968

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA93968-1	12/05/11	10:20	TT	12/07/11	SO	Soil	P-1 (0.5-1.5)
JA93968-2	12/05/11	11:00	TT	12/07/11	SO	Soil	P-2 (1.5-2)
JA93968-3	12/05/11	11:35	TT	12/07/11	SO	Soil	P-3 (1-2)
JA93968-4	12/05/11	13:30	TT	12/07/11	SO	Soil	P-4 (4-5)
JA93968-5	12/05/11	15:10	TT	12/07/11	SO	Soil	P-6 (0-1)
JA93968-6	12/05/11	15:54	TT	12/07/11	SO	Soil	P-7 (0-1)

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JA93968
Site:	BMSMC, Building 5 Area, PR	**Report Date**	12/15/2011 3:55:31 P

On 12/07/2011, 6 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 JA93968 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:** VD7742

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA93486-6MS, JA93486-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JA93968-1: Diluted due to high concentration of target compound.

Matrix: SO **Batch ID:** VX5174

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA93445-17MS, JA93445-17MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VX5178

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA94019-5MS, JA94019-5MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846-8015 (DAI)

Matrix: SO **Batch ID:** GGH3918

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA93968-1MS, JA93968-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JA93968-5 for Methanol: More than 40 % RPD for detected concentrations between the two GC columns.
- JA93968-1 for Methanol: More than 40 % RPD for detected concentrations between the two GC columns.

Wet Chemistry By Method SM18 2540G

Matrix: SO **Batch ID:** GN59173

- The data for SM18 2540G 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

New Jersey

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Sample Results

Report of Analysis

Accutest LabLink@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-1 (0.5-1.5)		
Lab Sample ID:	JA93968-1	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	88.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	D190181.D	1	12/10/11	ET	12/08/11 09:00	n/a	VD7742
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	610	410	ug/kg	
71-43-2	Benzene	ND	61	8.1	ug/kg	
100-41-4	Ethylbenzene	911	61	9.1	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	310	160	ug/kg	
108-88-3	Toluene	ND	61	23	ug/kg	
1330-20-7	Xylene (total)	2500	61	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		67-131%
17060-07-0	1,2-Dichloroethane-D4	91%		66-130%
2037-26-5	Toluene-D8	98%		76-125%
460-00-4	4-Bromofluorobenzene	85%		53-142%

(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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-1 (0.5-1.5)		
Lab Sample ID:	JA93968-1	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	88.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85751.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	1150	110	42	ug/kg	
67-56-1	Methanol [a]	224	220	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	58%		58-137%
111-27-3	Hexanol	60%		58-137%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-2 (1.5-2)		
Lab Sample ID:	JA93968-2	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	92.5
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X121566.D	1	12/09/11	TYG	12/08/11 09:00	n/a	VX5174
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	8.8	10	6.8	ug/kg	J
71-43-2	Benzene	ND	1.0	0.14	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	2.7	ug/kg	
108-88-3	Toluene	ND	1.0	0.39	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		67-131%
17060-07-0	1,2-Dichloroethane-D4	99%		66-130%
2037-26-5	Toluene-D8	114%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-2 (1.5-2)		
Lab Sample ID:	JA93968-2	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	92.5
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85752.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	41	ug/kg	
67-56-1	Methanol	ND	220	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	72%		58-137%
111-27-3	Hexanol	74%		58-137%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-3 (1-2)		
Lab Sample ID:	JA93968-3	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	80.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X121649.D	1	12/12/11	TYG	12/08/11 09:00	n/a	VX5178
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	8.6	ug/kg	
71-43-2	Benzene	ND	1.3	0.17	ug/kg	
100-41-4	Ethylbenzene	12.4	1.3	0.19	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.5	3.4	ug/kg	
108-88-3	Toluene	ND	1.3	0.49	ug/kg	
1330-20-7	Xylene (total)	4.6	1.3	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		67-131%
17060-07-0	1,2-Dichloroethane-D4	94%		66-130%
2037-26-5	Toluene-D8	115%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-3 (1-2)		
Lab Sample ID:	JA93968-3	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	80.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85753.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	46	ug/kg	
67-56-1	Methanol	ND	240	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	77%		58-137%
111-27-3	Hexanol	77%		58-137%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-4 (4-5)		
Lab Sample ID:	JA93968-4	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	77.9
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X121567.D	1	12/09/11	TYG	12/08/11 09:00	n/a	VX5174
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	30.4	13	8.5	ug/kg	
71-43-2	Benzene	0.71	1.3	0.17	ug/kg	J
100-41-4	Ethylbenzene	18.6	1.3	0.19	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	3.4	ug/kg	
108-88-3	Toluene	ND	1.3	0.49	ug/kg	
1330-20-7	Xylene (total)	73.1	1.3	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		67-131%
17060-07-0	1,2-Dichloroethane-D4	99%		66-130%
2037-26-5	Toluene-D8	113%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-4 (4-5)		
Lab Sample ID:	JA93968-4	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	77.9
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85754.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	130	48	ug/kg	
67-56-1	Methanol	ND	250	65	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	71%		58-137%
111-27-3	Hexanol	73%		58-137%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-6 (0-1)		
Lab Sample ID:	JA93968-5	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	80.8
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X121568.D	1	12/09/11	TYG	12/08/11 09:00	n/a	VX5174
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	56.2	10	6.9	ug/kg	
71-43-2	Benzene	0.59	1.0	0.14	ug/kg	J
100-41-4	Ethylbenzene	2.1	1.0	0.16	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.8	ug/kg	
108-88-3	Toluene	ND	1.0	0.40	ug/kg	
1330-20-7	Xylene (total)	1.1	1.0	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		67-131%
17060-07-0	1,2-Dichloroethane-D4	98%		66-130%
2037-26-5	Toluene-D8	113%		76-125%
460-00-4	4-Bromofluorobenzene	103%		53-142%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-6 (0-1)		
Lab Sample ID:	JA93968-5	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	80.8
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85755.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	46	ug/kg	
67-56-1	Methanol [a]	415	240	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	76%		58-137%
111-27-3	Hexanol	77%		58-137%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-7 (0-1)		
Lab Sample ID:	JA93968-6	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X121650.D	1	12/12/11	TYG	12/08/11 09:00	n/a	VX5178
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	8.4	11	7.2	ug/kg	J
71-43-2	Benzene	ND	1.1	0.15	ug/kg	
100-41-4	Ethylbenzene	0.37	1.1	0.16	ug/kg	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.9	ug/kg	
108-88-3	Toluene	ND	1.1	0.41	ug/kg	
1330-20-7	Xylene (total)	0.64	1.1	0.20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	77%		67-131%
17060-07-0	1,2-Dichloroethane-D4	94%		66-130%
2037-26-5	Toluene-D8	115%		76-125%
460-00-4	4-Bromofluorobenzene	98%		53-142%

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@649183 09:00 19-Dec-2011

Report of Analysis

Client Sample ID:	P-7 (0-1)		
Lab Sample ID:	JA93968-6	**Date Sampled:**	12/05/11
Matrix:	SO - Soil	**Date Received:**	12/07/11
Method:	SW846-8015 (DAI)	**Percent Solids:**	84.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH85756.D	1	12/09/11	XPL	n/a	n/a	GGH3918
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	45	ug/kg	
67-56-1	Methanol	252	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	77%		58-137%
111-27-3	Hexanol	75%		58-137%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SLL

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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

PAGE 1 OF 1

FED-EX Tracking # 8737 4421 1914
Bottle Order Control #
Accutest Quote #
Accutest Job # JA93968

Client / Reporting Information

Company Name: Anderson Mulholland Assoc., Inc.
Street Address: 110 Corporate Park
City State Zip: White Plains, NY 10604
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400 Ext 309
Fax #:
Sampler(s) Name(s): Terry Taylor
Phone #:

Project Information

Project Name: Bristol-Myers Squibb, Humacao PR,
Street:
City State:
Project # Building 5
Client Purchase Order #
Project Manager
Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

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	Ethylbenzene, benzene, toluene, xylene, MIBK, acetone by 8260B	Methanol and IPA by 8015B	% Solids	LAB USE ONLY
-1	P-1 (0.5-1.5)		12/5/11	10:20	TT	Soil	5					2			3	X	X	X	
-2	P-2 (1.5-2)			11:00			5					2			3	X	X	X	F.S.1
-3	P-3 (1-2)			11:35			5					2			3	X	X	X	1404
	~~X74X(X-2)XX~~			~~XX:XX~~			5					X			X	X	X	X	4966
-4	P-4 (4-5)			1330			5					2			3	X	X	X	
-5	P-6 (0-1)			1510			5					2			3	X	X	X	
-6	P-7 (0-1)			1554			5					2			3	X	X	X	

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☒ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ 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

8737442119 14

2 Gallons 12-7-11

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	12/6/11	1 FedEx	2 FedEx	12-7-11 1715	2
3		3	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 436	Intact / Not intact	Preserved where applicable ☑ On Ice ☑ Cooler Temp. 3.0°C B

JA93968: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA93968 **Client:** AMAI-NY - ATF **Immediate Client Services Action Required:** Yes

Date / Time Received: 12/7/2011 **Delivery Method:** FedEx **Client Service Action Required at Login:** No

Project: BMS-PR **No. Coolers:** 1 **Airbill #'s:** 8737 4421 1914

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

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Bar Therm
3. Cooler media:	Ice (Bag)

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

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

Sample Integrity - Instructions	Y	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

ALL ENCORES REC'D BEYOND HOLDING TIME.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA93968: Chain of Custody
Page 2 of 3

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA93968

CSR: Michelle **Response Date:** 12/8/2011

Response: Please proceed as noted per Terry Taylor

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JA93968

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA93968-1	Collected: 05-DEC-11 10:20 By: TT		Received: 07-DEC-11 By: SC			
P-1 (0.5-1.5)						
JA93968-1	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-1	SW846-8015 (DAI)	09-DEC-11 10:36	XPL			D8015IPA,DGC+ METH
JA93968-1	SW846 8260B	10-DEC-11 15:50	ET			V8260SL3
JA93968-2	Collected: 05-DEC-11 11:00 By: TT		Received: 07-DEC-11 By: SC			
P-2 (1.5-2)						
JA93968-2	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-2	SW846-8015 (DAI)	09-DEC-11 10:57	XPL			D8015IPA,DGC+ METH
JA93968-2	SW846 8260B	09-DEC-11 19:47	TYG			V8260SL3
JA93968-3	Collected: 05-DEC-11 11:35 By: TT		Received: 07-DEC-11 By: SC			
P-3 (1-2)						
JA93968-3	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-3	SW846-8015 (DAI)	09-DEC-11 11:12	XPL			D8015IPA,DGC+ METH
JA93968-3	SW846 8260B	12-DEC-11 15:17	TYG			V8260SL3
JA93968-4	Collected: 05-DEC-11 13:30 By: TT		Received: 07-DEC-11 By: SC			
P-4 (4-5)						
JA93968-4	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-4	SW846-8015 (DAI)	09-DEC-11 11:26	XPL			D8015IPA,DGC+ METH
JA93968-4	SW846 8260B	09-DEC-11 20:16	TYG			V8260SL3
JA93968-5	Collected: 05-DEC-11 15:10 By: TT		Received: 07-DEC-11 By: SC			
P-6 (0-1)						
JA93968-5	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-5	SW846-8015 (DAI)	09-DEC-11 11:41	XPL			D8015IPA,DGC+ METH
JA93968-5	SW846 8260B	09-DEC-11 20:46	TYG			V8260SL3
JA93968-6	Collected: 05-DEC-11 15:54 By: TT		Received: 07-DEC-11 By: SC			
P-7 (0-1)						
JA93968-6	SM18 2540G	08-DEC-11	PM			%SOL
JA93968-6	SW846-8015 (DAI)	09-DEC-11 11:55	XPL			D8015IPA,DGC+ METH

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JA93968

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA93968-6	SW846 8260B	12-DEC-11 15:46	TYG			V8260SL3

Accutest Internal Chain of Custody

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 12/07/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA93968-1.2	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-1.2	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-1.2	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-1.2	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-1.2	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-1.2	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-1.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-1.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-1.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-1.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-1.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-1.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-2.1	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-2.1	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-2.1	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-2.2	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-2.2	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-2.2	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-2.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-2.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-2.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-2.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-2.5	Secured Storage	Tamika Yvonne Ginn	12/08/11 17:09	Retrieve from Storage
JA93968-2.5	Tamika Yvonne Ginn	GCMSX	12/08/11 17:09	Load on Instrument
JA93968-2.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-2.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-2.6	Secured Storage	Tamika Yvonne Ginn	12/09/11 16:58	Retrieve from Storage
JA93968-2.6	Tamika Yvonne Ginn	GCMSX	12/09/11 17:07	Load on Instrument
JA93968-3.1	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-3.1	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-3.1	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				

Accutest Internal Chain of Custody

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 12/07/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA93968-3.2	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-3.2	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-3.2	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-3.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-3.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-3.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-3.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-3.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-3.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-3.6	Secured Storage	Tamika Yvonne Ginn	12/12/11 14:33	Retrieve from Storage
JA93968-3.6	Tamika Yvonne Ginn	GCMSX	12/12/11 14:33	Load on Instrument
JA93968-4.1	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-4.1	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-4.1	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-4.2	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-4.2	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-4.2	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-4.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-4.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-4.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-4.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-4.5	Secured Storage	Tamika Yvonne Ginn	12/08/11 17:09	Retrieve from Storage
JA93968-4.5	Tamika Yvonne Ginn	GCMSX	12/08/11 17:09	Load on Instrument
JA93968-4.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-4.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-5.1	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-5.1	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-5.1	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-5.2	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-5.2	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-5.2	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-5.2	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 12/07/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA93968-5.2	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-5.2	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-5.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-5.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-5.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-5.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-5.5	Secured Storage	Tamika Yvonne Ginn	12/08/11 17:09	Retrieve from Storage
JA93968-5.5	Tamika Yvonne Ginn	GCMSX	12/08/11 17:09	Load on Instrument
JA93968-5.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-5.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-6.1	Secured Storage	John Thomas	12/08/11 14:05	Retrieve from Storage
JA93968-6.1	John Thomas	Pierre Miller	12/08/11 15:02	Custody Transfer
JA93968-6.1	Shirley Grzybowski	Secured Storage	12/09/11 07:40	Return to Storage
Analyst unavailable for custody transfer.				
JA93968-6.2	Secured Storage	John Thomas	12/08/11 11:19	Retrieve from Storage
JA93968-6.2	John Thomas	Xu Liu	12/08/11 11:20	Custody Transfer
JA93968-6.2	Xu Liu	Secured Storage	12/08/11 12:33	Return to Storage
JA93968-6.4	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-6.4	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-6.5	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-6.5	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-6.6	Secured Storage	Meng Han	12/08/11 09:50	Retrieve from Storage
JA93968-6.6	Meng Han	Secured Storage	12/08/11 09:50	Return to Storage
JA93968-6.6	Secured Storage	Tamika Yvonne Ginn	12/12/11 14:33	Retrieve from Storage
JA93968-6.6	Tamika Yvonne Ginn	GCMSX	12/12/11 14:33	Load on Instrument

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: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5174-MB	X121554.D	1	12/09/11	TYG	n/a	n/a	VX5174

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

JA93968-2, JA93968-4, JA93968-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.6	ug/kg	
71-43-2	Benzene	ND	1.0	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.6	ug/kg	
108-88-3	Toluene	ND	1.0	0.38	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	67-131%
17060-07-0	1,2-Dichloroethane-D4	101%	66-130%
2037-26-5	Toluene-D8	114%	76-125%
460-00-4	4-Bromofluorobenzene	97%	53-142%

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

Method Blank Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD7742-MB	D190176.D	1	12/10/11	ET	n/a	n/a	VD7742

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

JA93968-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	330	ug/kg	
71-43-2	Benzene	ND	50	6.7	ug/kg	
100-41-4	Ethylbenzene	ND	50	7.4	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	130	ug/kg	
108-88-3	Toluene	ND	50	19	ug/kg	
1330-20-7	Xylene (total)	ND	50	9.2	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	67-131%
17060-07-0	1,2-Dichloroethane-D4	91%	66-130%
2037-26-5	Toluene-D8	97%	76-125%
460-00-4	4-Bromofluorobenzene	83%	53-142%

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

Method Blank Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5178-MB	X121646.D	1	12/12/11	TYG	n/a	n/a	VX5178

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

JA93968-3, JA93968-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.6	ug/kg	
71-43-2	Benzene	ND	1.0	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.6	ug/kg	
108-88-3	Toluene	ND	1.0	0.38	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	67-131%
17060-07-0	1,2-Dichloroethane-D4	97%	66-130%
2037-26-5	Toluene-D8	115%	76-125%
460-00-4	4-Bromofluorobenzene	98%	53-142%

Blank Spike Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5174-BS	X121555.D	1	12/09/11	TYG	n/a	n/a	VX5174

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

JA93968-2, JA93968-4, JA93968-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	52.6	105	48-154
71-43-2	Benzene	50	51.5	103	76-120
100-41-4	Ethylbenzene	50	48.5	97	75-125
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.0	106	69-135
108-88-3	Toluene	50	52.5	105	77-124
1330-20-7	Xylene (total)	150	147	98	78-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	67-131%
17060-07-0	1,2-Dichloroethane-D4	99%	66-130%
2037-26-5	Toluene-D8	114%	76-125%
460-00-4	4-Bromofluorobenzene	97%	53-142%

Blank Spike Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VD7742-BS	D190179.D	1	12/10/11	ET	n/a	n/a	VD7742

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

JA93968-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2490	100	48-154
71-43-2	Benzene	2500	2520	101	76-120
100-41-4	Ethylbenzene	2500	2400	96	75-125
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2620	105	69-135
108-88-3	Toluene	2500	2600	104	77-124
1330-20-7	Xylene (total)	7500	7140	95	78-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	67-131%
17060-07-0	1,2-Dichloroethane-D4	90%	66-130%
2037-26-5	Toluene-D8	98%	76-125%
460-00-4	4-Bromofluorobenzene	82%	53-142%

Blank Spike Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5178-BS	X121647.D	1	12/12/11	TYG	n/a	n/a	VX5178

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

JA93968-3, JA93968-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	58.7	117	48-154
71-43-2	Benzene	50	54.3	109	76-120
100-41-4	Ethylbenzene	50	46.6	93	75-125
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.4	107	69-135
108-88-3	Toluene	50	54.5	109	77-124
1330-20-7	Xylene (total)	150	143	95	78-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	115%	67-131%
17060-07-0	1,2-Dichloroethane-D4	97%	66-130%
2037-26-5	Toluene-D8	114%	76-125%
460-00-4	4-Bromofluorobenzene	96%	53-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA93445-17MS	X121558.D	1	12/09/11	TYG	n/a	n/a	VX5174
JA93445-17MSD	X121559.D	1	12/09/11	TYG	n/a	n/a	VX5174
JA93445-17	X121557.D	1	12/09/11	TYG	n/a	n/a	VX5174

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

JA93968-2, JA93968-4, JA93968-5

CAS No.	Compound	JA93445-17 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25.2		61.9	76.7	83	79.0	87	3	12-189/33
71-43-2	Benzene	ND		61.9	48.8	79	47.2	76	3	37-132/21
100-41-4	Ethylbenzene	ND		61.9	45.5	73	44.1	71	3	20-144/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		61.9	67.4	109	66.9	108	1	36-145/26
108-88-3	Toluene	ND		61.9	49.3	80	47.9	77	3	29-138/23
1330-20-7	Xylene (total)	ND		186	138	74	134	72	3	18-145/25

CAS No.	Surrogate Recoveries	MS	MSD	JA93445-17	Limits
1868-53-7	Dibromofluoromethane	115%	116%	114%	67-131%
17060-07-0	1,2-Dichloroethane-D4	104%	107%	107%	66-130%
2037-26-5	Toluene-D8	114%	115%	115%	76-125%
460-00-4	4-Bromofluorobenzene	96%	96%	96%	53-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA93486-6MS	D190190.D	1	12/10/11	ET	n/a	n/a	VD7742
JA93486-6MSD	D190191.D	1	12/10/11	ET	n/a	n/a	VD7742
JA93486-6	D190193.D	1	12/10/11	ET	n/a	n/a	VD7742

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

JA93968-1

CAS No.	Compound	JA93486-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2630	2770	105	2780	106	0	12-189/33
71-43-2	Benzene	ND		2630	2560	97	2560	97	0	37-132/21
100-41-4	Ethylbenzene	ND		2630	2390	91	2380	91	0	20-144/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2630	2680	102	2690	102	0	36-145/26
108-88-3	Toluene	ND		2630	2480	94	2480	94	0	29-138/23
1330-20-7	Xylene (total)	ND		7880	7220	92	7150	91	1	18-145/25

CAS No.	Surrogate Recoveries	MS	MSD	JA93486-6	Limits
1868-53-7	Dibromofluoromethane	93%	93%	92%	67-131%
17060-07-0	1,2-Dichloroethane-D4	91%	90%	92%	66-130%
2037-26-5	Toluene-D8	94%	94%	97%	76-125%
460-00-4	4-Bromofluorobenzene	79%	80%	81%	53-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA94019-5MS	X121651.D	1	12/12/11	TYG	n/a	n/a	VX5178
JA94019-5MSD	X121652.D	1	12/12/11	TYG	n/a	n/a	VX5178
JA94019-5	X121648.D	1	12/12/11	TYG	n/a	n/a	VX5178

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

JA93968-3, JA93968-6

CAS No.	Compound	JA94019-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		59.9	82.3	137	61.8	103	28	12-189/33
71-43-2	Benzene	ND		59.9	57.7	96	50.1	84	14	37-132/21
100-41-4	Ethylbenzene	1.0		59.9	46.3	76	36.5	59	24	20-144/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		59.9	53.2	89	51.6	86	3	36-145/26
108-88-3	Toluene	1.3		59.9	56.5	92	46.8	76	19	29-138/23
1330-20-7	Xylene (total)	4.8		180	140	75	110	59	24	18-145/25

CAS No.	Surrogate Recoveries	MS	MSD	JA94019-5	Limits
1868-53-7	Dibromofluoromethane	113%	113%	113%	67-131%
17060-07-0	1,2-Dichloroethane-D4	98%	95%	98%	66-130%
2037-26-5	Toluene-D8	114%	114%	113%	76-125%
460-00-4	4-Bromofluorobenzene	100%	104%	102%	53-142%

Instrument Performance Check (BFB)

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD7671-BFB
Lab File ID: D188518.D
Instrument ID: GCMSD
Injection Date: 10/28/11
Injection Time: 08:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14760	17.8		Pass
75	30.0 - 60.0% of mass 95	39411	47.5		Pass
95	Base peak, 100% relative abundance	83021	100.0		Pass
96	5.0 - 9.0% of mass 95	5575	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	67379	81.2		Pass
175	5.0 - 9.0% of mass 174	5024	6.05	(7.46) [a]	Pass
176	95.0 - 101.0% of mass 174	65571	79.0	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4276	5.15	(6.52) [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
VD7671-IC7671	D188519.D	10/28/11	09:24	00:31	Initial cal 0.5
VD7671-IC7671	D188520.D	10/28/11	09:53	01:00	Initial cal 1
VD7671-IC7671	D188521.D	10/28/11	10:23	01:30	Initial cal 2
VD7671-IC7671	D188522.D	10/28/11	10:52	01:59	Initial cal 5
VD7671-IC7671	D188523.D	10/28/11	11:22	02:29	Initial cal 10
VD7671-IC7671	D188524.D	10/28/11	11:51	02:58	Initial cal 20
VD7671-ICC7671	D188525.D	10/28/11	12:20	03:27	Initial cal 50
VD7671-ICV7671	D188526.D	10/28/11	12:50	03:57	Initial cal verification 50
VD7671-IC7671	D188527.D	10/28/11	13:19	04:26	Initial cal 100
VD7671-IC7671	D188528.D	10/28/11	13:48	04:55	Initial cal 200
VD7671-MB	D188531.D	10/28/11	15:33	06:40	Method Blank
VD7671-BS	D188532.D	10/28/11	16:15	07:22	Blank Spike
JA89370-5	D188534.D	10/28/11	17:31	08:38	(used for QC only; not part of job JA93968)
ZZZZZZ	D188535.D	10/28/11	18:05	09:12	(unrelated sample)
JA89370-5MS	D188536.D	10/28/11	18:41	09:48	Matrix Spike
JA89370-5MSD	D188537.D	10/28/11	19:13	10:20	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VD7742-BFB
Lab File ID: D190173.D
Instrument ID: GCMSD
Injection Date: 12/10/11
Injection Time: 09:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20661	18.2		Pass
75	30.0 - 60.0% of mass 95	54299	47.8		Pass
95	Base peak, 100% relative abundance	113595	100.0		Pass
96	5.0 - 9.0% of mass 95	7938	6.99		Pass
173	Less than 2.0% of mass 174	687	0.60	(0.73) [a]	Pass
174	50.0 - 120.0% of mass 95	94592	83.3		Pass
175	5.0 - 9.0% of mass 174	7096	6.25	(7.50) [a]	Pass
176	95.0 - 101.0% of mass 174	92816	81.7	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	6126	5.39	(6.60) [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
VD7742-CC7671	D190174A.D	12/10/11	11:33	02:11	Continuing cal 20
VD7742-MB	D190176.D	12/10/11	12:45	03:23	Method Blank
ZZZZZZ	D190177.D	12/10/11	13:31	04:09	(unrelated sample)
ZZZZZZ	D190178.D	12/10/11	14:16	04:54	(unrelated sample)
VD7742-BS	D190179.D	12/10/11	14:46	05:24	Blank Spike
JA93968-1	D190181.D	12/10/11	15:50	06:28	P-1 (0.5-1.5)
ZZZZZZ	D190184.D	12/10/11	17:19	07:57	(unrelated sample)
ZZZZZZ	D190185.D	12/10/11	17:49	08:27	(unrelated sample)
ZZZZZZ	D190186.D	12/10/11	18:19	08:57	(unrelated sample)
JA93486-6MS	D190190.D	12/10/11	18:48	09:26	Matrix Spike
JA93486-6MSD	D190191.D	12/10/11	19:18	09:56	Matrix Spike Duplicate
JA93486-6	D190193.D	12/10/11	20:17	10:55	(used for QC only; not part of job JA93968)
ZZZZZZ	D190194.D	12/10/11	20:47	11:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VX5154-BFB
Lab File ID: X121112.D
Instrument ID: GCMSX
Injection Date: 11/28/11
Injection Time: 13:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8271	17.8		Pass
75	30.0 - 60.0% of mass 95	20781	44.8		Pass
95	Base peak, 100% relative abundance	46360	100.0		Pass
96	5.0 - 9.0% of mass 95	3140	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	46008	99.2		Pass
175	5.0 - 9.0% of mass 174	3529	7.61	(7.67) [a]	Pass
176	95.0 - 101.0% of mass 174	44296	95.5	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2855	6.16	(6.45) [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
VX5154-IC5154	X121113.D	11/28/11	14:23	00:57	Initial cal 0.5
ZZZZZZ	X121113A.D	11/28/11	14:23	00:57	(unrelated sample)
VX5154-IC5154	X121114.D	11/28/11	14:52	01:26	Initial cal 1
ZZZZZZ	X121114A.D	11/28/11	14:52	01:26	(unrelated sample)
VX5154-IC5154	X121115.D	11/28/11	15:22	01:56	Initial cal 2
VX5154-IC5154	X121116.D	11/28/11	15:51	02:25	Initial cal 5
VX5154-IC5154	X121117.D	11/28/11	16:20	02:54	Initial cal 10
VX5154-IC5154	X121118.D	11/28/11	16:49	03:23	Initial cal 20
VX5154-ICC5154	X121119.D	11/28/11	17:18	03:52	Initial cal 50
VX5154-IC5154	X121120.D	11/28/11	17:47	04:21	Initial cal 100
VX5154-IC5154	X121121.D	11/28/11	18:17	04:51	Initial cal 200
VX5154-ICV5154	X121124.D	11/28/11	19:45	06:19	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VX5173-BFB
Lab File ID: X121546.D
Instrument ID: GCMSX
Injection Date: 12/09/11
Injection Time: 08:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11211	16.4		Pass
75	30.0 - 60.0% of mass 95	30056	43.9		Pass
95	Base peak, 100% relative abundance	68517	100.0		Pass
96	5.0 - 9.0% of mass 95	4886	7.13		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66840	97.6		Pass
175	5.0 - 9.0% of mass 174	5456	7.96	(8.16) [a]	Pass
176	95.0 - 101.0% of mass 174	64608	94.3	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4480	6.54	(6.93) [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
VX5173-CC5154	X121548.D	12/09/11	10:01	01:08	Continuing cal 20
VX5173-MB2	X121549.D	12/09/11	10:32	01:39	Method Blank
VX5173-BS2	X121550.D	12/09/11	11:12	02:19	Blank Spike
ZZZZZZ	X121552.D	12/09/11	12:11	03:18	(unrelated sample)
VX5173-CC5154	X121553.D	12/09/11	13:03	04:10	Continuing cal 20
VX5174-MB	X121554.D	12/09/11	13:32	04:39	Method Blank
VX5174-BS	X121555.D	12/09/11	14:08	05:15	Blank Spike
JA93445-17	X121557.D	12/09/11	15:23	06:30	(used for QC only; not part of job JA93968)
JA93445-17MS	X121558.D	12/09/11	15:52	06:59	Matrix Spike
JA93445-17MSD	X121559.D	12/09/11	16:21	07:28	Matrix Spike Duplicate
ZZZZZZ	X121561.D	12/09/11	17:21	08:28	(unrelated sample)
ZZZZZZ	X121562.D	12/09/11	17:50	08:57	(unrelated sample)
ZZZZZZ	X121563.D	12/09/11	18:20	09:27	(unrelated sample)
ZZZZZZ	X121564.D	12/09/11	18:49	09:56	(unrelated sample)
ZZZZZZ	X121565.D	12/09/11	19:18	10:25	(unrelated sample)
JA93968-2	X121566.D	12/09/11	19:47	10:54	P-2 (1.5-2)
JA93968-4	X121567.D	12/09/11	20:16	11:23	P-4 (4-5)
JA93968-5	X121568.D	12/09/11	20:46	11:53	P-6 (0-1)

Instrument Performance Check (BFB)

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VX5178-BFB
Lab File ID: X121638.D
Instrument ID: GCMSX
Injection Date: 12/12/11
Injection Time: 08:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17757	16.5		Pass
75	30.0 - 60.0% of mass 95	47024	43.6		Pass
95	Base peak, 100% relative abundance	107755	100.0		Pass
96	5.0 - 9.0% of mass 95	7325	6.80		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	106397	98.7		Pass
175	5.0 - 9.0% of mass 174	8880	8.24	(8.35) [a]	Pass
176	95.0 - 101.0% of mass 174	103565	96.1	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	7033	6.53	(6.79) [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
VX5178-CC5154	X121639.D	12/12/11	09:25	00:33	Continuing cal 20
VX5177-MB2	X121641.D	12/12/11	10:47	01:55	Method Blank
VX5177-BS2	X121642.D	12/12/11	11:25	02:33	Blank Spike
JA93657-59MS	X121644.D	12/12/11	12:33	03:41	Matrix Spike
JA93657-57DUP	X121645.D	12/12/11	13:03	04:11	Duplicate
VX5178-MB	X121646.D	12/12/11	13:32	04:40	Method Blank
VX5178-BS	X121647.D	12/12/11	14:13	05:21	Blank Spike
JA94019-5	X121648.D	12/12/11	14:48	05:56	(used for QC only; not part of job JA93968)
JA93968-3	X121649.D	12/12/11	15:17	06:25	P-3 (1-2)
JA93968-6	X121650.D	12/12/11	15:46	06:54	P-7 (0-1)
JA94019-5MS	X121651.D	12/12/11	16:15	07:23	Matrix Spike
JA94019-5MSD	X121652.D	12/12/11	16:45	07:53	Matrix Spike Duplicate
ZZZZZZ	X121653.D	12/12/11	17:14	08:22	(unrelated sample)
ZZZZZZ	X121655.D	12/12/11	18:13	09:21	(unrelated sample)
ZZZZZZ	X121656.D	12/12/11	18:42	09:50	(unrelated sample)
ZZZZZZ	X121657.D	12/12/11	19:11	10:19	(unrelated sample)
ZZZZZZ	X121658.D	12/12/11	19:40	10:48	(unrelated sample)
ZZZZZZ	X121660.D	12/12/11	20:09	11:17	(unrelated sample)
ZZZZZZ	X121661.D	12/12/11	20:39	11:47	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VD7742-CC7671	**Injection Date:**	12/10/11
Lab File ID:	D190174A.D	**Injection Time:**	11:33
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	188505	7.51	311742	9.75	502217	10.66	511207	13.99	289871	16.58
Upper Limit [a]	377010	8.01	623484	10.25	1004434	11.16	1022414	14.49	579742	17.08
Lower Limit [b]	94253	7.01	155871	9.25	251109	10.16	255604	13.49	144936	16.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VD7742-MB	149713	7.53	262148	9.75	416454	10.65	433164	13.99	246011	16.58
ZZZZZZ	187646	7.53	325931	9.74	525520	10.65	566498	13.99	325711	16.58
ZZZZZZ	193562	7.51	314825	9.75	510505	10.66	547010	13.99	298397	16.58
VD7742-BS	158300	7.51	263694	9.75	429589	10.65	446507	13.99	262348	16.57
JA93968-1 [c]	147592	7.52	260482	9.75	419179	10.66	442904	13.99	248212	16.58
ZZZZZZ	149398	7.53	257529	9.75	410195	10.66	430983	13.99	256316	16.58
ZZZZZZ	149359	7.52	254967	9.75	406501	10.66	424364	13.99	253028	16.58
ZZZZZZ	151029	7.52	252990	9.75	400132	10.66	414905	13.99	247674	16.58
JA93486-6MS	157053	7.53	263784	9.75	427271	10.65	412972	13.99	251332	16.57
JA93486-6MSD	154121	7.53	263326	9.75	422740	10.65	421752	13.99	260702	16.58
JA93486-6	148588	7.52	259325	9.75	409015	10.66	431868	13.99	258798	16.58
ZZZZZZ	154194	7.53	260831	9.75	413194	10.65	435559	13.99	258938	16.58

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

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

Volatile Internal Standard Area Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VX5173-CC5154	**Injection Date:**	12/09/11
Lab File ID:	X121553.D	**Injection Time:**	13:03
Instrument ID:	GCMSX	**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	70217	7.27	199553	9.96	288662	11.13	292509	15.35	159333	18.15
Upper Limit [a]	140434	7.77	399106	10.46	577324	11.63	585018	15.85	318666	18.65
Lower Limit [b]	35109	6.77	99777	9.46	144331	10.63	146255	14.85	79667	17.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX5174-MB	77085	7.28	201457	9.97	291334	11.13	292140	15.35	155375	18.15
VX5174-BS	69742	7.27	196137	9.97	285416	11.13	289572	15.35	155913	18.15
JA93445-17	100666	7.27	200243	9.97	290686	11.13	299996	15.35	168452	18.15
JA93445-17MS	82189	7.28	200356	9.97	293282	11.13	300418	15.35	162971	18.15
JA93445-17MSD	92221	7.28	196583	9.97	288162	11.13	294047	15.35	161742	18.15
ZZZZZZ	71699	7.27	217540	9.97	310575	11.13	300713	15.35	154848	18.15
ZZZZZZ	78774	7.27	217804	9.97	312336	11.14	309498	15.35	159204	18.15
ZZZZZZ	75595	7.27	205717	9.97	295503	11.13	294153	15.35	159194	18.15
ZZZZZZ	78863	7.27	210520	9.97	303660	11.13	303919	15.35	160707	18.15
ZZZZZZ	83419	7.28	193394	9.97	282599	11.13	271075	15.35	129758	18.15
JA93968-2	78258	7.27	210001	9.97	302530	11.13	302272	15.35	157926	18.15
JA93968-4	78438	7.27	206676	9.97	295926	11.13	292654	15.35	150753	18.15
JA93968-5	81512	7.27	212079	9.97	302879	11.13	294917	15.35	144112	18.15

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: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VX5178-CC5154	**Injection Date:**	12/12/11
Lab File ID:	X121639.D	**Injection Time:**	09:25
Instrument ID:	GCMSX	**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	84784	7.26	235002	9.94	344525	11.11	371433	15.33	195099	18.13
Upper Limit [a]	169568	7.76	470004	10.44	689050	11.61	742866	15.83	390198	18.63
Lower Limit [b]	42392	6.76	117501	9.44	172263	10.61	185717	14.83	97550	17.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX5177-MB2	87392	7.24	221314	9.94	321542	11.11	351927	15.33	183564	18.13
VX5177-BS2	73969	7.25	211511	9.94	314565	11.11	344381	15.33	185084	18.13
JA93657-59MS	71941	7.25	176483	9.94	260493	11.11	289278	15.34	156066	18.13
JA93657-57DUP	91823	7.26	218898	9.95	317821	11.11	342351	15.34	182882	18.13
VX5178-MB	78034	7.26	206787	9.95	302727	11.11	320294	15.34	169996	18.14
VX5178-BS	77112	7.26	203123	9.95	304107	11.11	326146	15.34	177574	18.14
JA94019-5	79696	7.27	205881	9.94	305599	11.11	317087	15.34	156532	18.14
JA93968-3	80889	7.26	220917	9.96	324018	11.12	338857	15.34	179833	18.14
JA93968-6	81971	7.25	217544	9.95	317784	11.12	336060	15.34	182028	18.13
JA94019-5MS	77562	7.26	203861	9.95	303702	11.12	317033	15.34	163174	18.14
JA94019-5MSD	76705	7.26	204359	9.95	304654	11.12	315689	15.34	154902	18.13
ZZZZZZ	77599	7.26	207974	9.95	305513	11.12	322952	15.34	182142	18.13
ZZZZZZ	79194	7.26	219678	9.95	326073	11.12	344132	15.34	187692	18.13
ZZZZZZ	82190	7.26	214250	9.95	315534	11.12	334184	15.34	181998	18.13
ZZZZZZ	95341	7.26	211219	9.95	311255	11.12	330373	15.34	179718	18.14
ZZZZZZ	86351	7.25	210556	9.95	309335	11.12	317489	15.34	166273	18.13
ZZZZZZ	92013	7.25	205283	9.95	304255	11.12	321038	15.34	169243	18.13
ZZZZZZ	86310	7.26	210047	9.95	309652	11.12	327529	15.34	177115	18.13

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

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

Volatile Surrogate Recovery Summary

Job Number: JA93968
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
JA93968-1	D190181.D	90.0	91.0	98.0	85.0
JA93968-2	X121566.D	110.0	99.0	114.0	99.0
JA93968-3	X121649.D	110.0	94.0	115.0	99.0
JA93968-4	X121567.D	110.0	99.0	113.0	99.0
JA93968-5	X121568.D	110.0	98.0	113.0	103.0
JA93968-6	X121650.D	77.0	94.0	115.0	98.0
JA93445-17MS	X121558.D	115.0	104.0	114.0	96.0
JA93445-17MSD	X121559.D	116.0	107.0	115.0	96.0
JA93486-6MS	D190190.D	93.0	91.0	94.0	79.0
JA93486-6MSD	D190191.D	93.0	90.0	94.0	80.0
JA94019-5MS	X121651.D	113.0	98.0	114.0	100.0
JA94019-5MSD	X121652.D	113.0	95.0	114.0	104.0
VD7742-BS	D190179.D	92.0	90.0	98.0	82.0
VD7742-MB	D190176.D	90.0	91.0	97.0	83.0
VX5174-BS	X121555.D	111.0	99.0	114.0	97.0
VX5174-MB	X121554.D	112.0	101.0	114.0	97.0
VX5178-BS	X121647.D	115.0	97.0	114.0	96.0
VX5178-MB	X121646.D	111.0	97.0	115.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-131%
S2 = 1,2-Dichloroethane-D4	66-130%
S3 = Toluene-D8	76-125%
S4 = 4-Bromofluorobenzene	53-142%

Initial Calibration Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: VD7671-ICC7671
Lab FileID: D188525.D

Response Factor Report MSD

```
Method       : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title        : SW-846 Method 8260B
Last Update  : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration

Calibration Files
5   =D188522.D   2   =D188521.D   0.5 =D188519.D   50  =D188525.D
100 =D188527.D   1   =D188520.D   200 =D188528.D   20  =D188524.D
10  =D188523.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	0.078		0.107	0.112		0.128	0.100	0.093		0.103	16.69
----- Linear regression ----- Coefficient = 0.9963											
Response Ratio = -0.03405 + 0.12895 *A											
3) tertiary butyl alcohol	1.113	1.129	1.418	1.379	1.342	1.357	1.353	1.405	1.201	1.299	9.14
4) I pentafluorobenzene ----------ISTD----------											
5) 1,2-dichloro-1,2,2-trifluoroet										0.000#	-1.00
6) chlorodifluoromethane	0.622	0.595	0.655	0.673	0.672	0.648	0.663	0.725	0.607	0.651	6.06
7) dichlorodifluoromethane	0.723	0.643		0.764	0.752	0.697	0.759	0.876	0.715	0.741	9.10
8) chloromethane	0.723	0.698	0.809	0.815	0.814	0.779	0.836	0.896	0.735	0.790	7.89
9) vinyl chloride	0.714	0.672	0.809	0.805	0.788	0.718	0.777	0.894	0.725	0.767	8.75
10) bromomethane	0.457	0.446	0.510	0.501	0.450	0.503		0.574	0.464	0.488	8.84
11) chloroethane	0.422	0.420	0.418	0.489	0.487	0.444	0.379	0.526	0.432	0.446	10.21
12) vinyl bromide										0.000#	-1.00
13) trichlorofluoromethane	0.831	0.769		0.935	0.939	0.813	0.935	1.041	0.833	0.887	10.13
14) pentane	1.148	1.069	1.225	1.269	1.263	1.334	1.302	1.357	1.133	1.233	7.95
15) ethyl ether	0.341	0.349	0.388	0.412	0.409	0.320	0.404	0.427	0.338	0.376	10.44
16) acrolein	0.141	0.144		0.149				0.145	0.121	0.140	7.94
17) chlorotrifluoroethene										0.000#	-1.00
18) 1,1-dichloroethene	0.561	0.558	0.620	0.618	0.619	0.572	0.598	0.656	0.547	0.594	6.18
19) acetone	0.052			0.069	0.067		0.066	0.069	0.061	0.064	10.22
20) allyl chloride	1.295	1.031		1.328	1.297		1.239	1.428	1.220	1.263	9.69
21) acetonitrile	0.034			0.041	0.040		0.039	0.036	0.035	0.037	7.71

Initial Calibration Summary

Job Number: JA93968 **Sample:** VD7671-ICC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188525.D
Project: BMSMC, Building 5 Area, PR

```
22)  acetaldehyde
                                                                          0.000#  -1.00
23)  iodomethane
           0.936 0.925 0.935 1.087 1.100 0.852 1.056 1.131 0.925   0.994    9.97
24)  iso-butyl alcohol
           0.003             0.004 0.003       0.003 0.003 0.003   0.003#  12.82
25)  carbon disulfide
           1.833 1.783 1.934 2.077 2.093 1.719 1.970 2.214 1.779   1.934    8.74
26)  methylene chloride
           0.634 0.627 0.709 0.728 0.729 0.653 0.686 0.770 0.629   0.685    7.59
27)  methyl acetate
           0.540             0.548 0.539       0.527 0.563 0.466   0.531    6.36
28)  methyl tert butyl ether
           1.817 1.815 1.988 2.110 2.106 1.688 2.004 2.204 1.822   1.950    8.87
29)  trans-1,2-dichloroethene
           0.595 0.575 0.646 0.661 0.669 0.579 0.643 0.708 0.576   0.628    7.71
30)  di-isopropyl ether
           1.868 1.934 1.981 2.191 2.145 1.873 2.030 2.290 1.914   2.025    7.46
31)  ethyl tert-butyl ether
           1.797 1.818 1.865 2.118 2.117 1.817 2.000 2.202 1.836   1.952    8.11
32)  2-butanone
           0.064             0.087 0.086       0.085 0.086 0.068   0.079   13.20
33)  1,1-dichloroethane
           1.055 0.997 1.129 1.205 1.159 0.984 1.115 1.260 1.025   1.103    8.65
34)  chloroprene
           0.884 0.834 0.870 0.982 0.989 0.803 0.973 1.030 0.841   0.912    9.02
35)  acrylonitrile
           0.226             0.269 0.263       0.252 0.277 0.226   0.252    8.70
36)  vinyl acetate
           0.093             0.137 0.143       0.148 0.144 0.111   0.129   17.10
            ----- Linear regression -----  Coefficient =  0.9997
              Response Ratio = -0.00713 + 0.14890 *A

37)  ethyl acetate
           0.088             0.085 0.072       0.078 0.085 0.062   0.078   12.83
38)  2,2-dichloropropane
           0.904 0.881 0.949 0.994 0.979 0.886 0.940 1.052 0.884   0.941    6.27
39)  cis-1,2-dichloroethene
           0.638 0.614 0.697 0.728 0.732 0.591 0.697 0.770 0.624   0.677    9.17
40)  propionitrile
           0.087             0.104 0.101       0.099 0.104 0.091   0.098    7.39
41)  bromochloromethane
           0.293 0.273       0.346 0.350       0.339 0.363 0.289   0.322   11.12
42)  tetrahydrofuran
           0.081             0.100 0.097       0.096 0.101 0.079   0.092   10.67
43)  chloroform
           0.965 0.907 1.006 1.110 1.107 0.864 1.062 1.163 0.944   1.014   10.07
44)  dibromofluoromethane (s)
           0.501 0.476       0.573 0.590 0.574 0.556 0.600 0.494   0.546    8.77
45)  1,2-dichloroethane-d4 (s)
           0.598 0.548 0.697 0.698 0.713 0.663 0.671 0.725 0.588   0.656    9.58
46)  freon 113
           0.418             0.471 0.482       0.491 0.515 0.423   0.467    8.23
47)  methacrylonitrile
           0.297 0.332       0.408 0.404 0.385 0.397 0.409 0.324   0.370   12.08
48)  t-butyl formate
           0.491 0.492       0.624 0.632 0.479 0.609 0.633 0.524   0.560   12.47
49)  1,1,1-trichloroethane
           0.879 0.797 0.884 0.997 0.999 0.780 0.965 1.042 0.853   0.911   10.31
50)  tert-amyl methyl ether
```

```
            1.713 1.788 1.936 2.007 2.007 1.822 1.906 2.078 1.735   1.888    6.90

51) I   1,4-difluorobenzene   ----------------ISTD--------------------
52)  cyclohexane
            0.578 0.543 0.617 0.620 0.609 0.575 0.615 0.659 0.551   0.596    6.25
53)  tert amyl alcohol
            0.018 0.019 0.016 0.017 0.017 0.022 0.017 0.017 0.016   0.018    9.98
54)  2,2,4-trimethylpentane
            1.421 1.352 1.727 1.528 1.517 1.436 1.523 1.690 1.364   1.506    8.77
55)  epichlorohydrin
            0.043 0.044 0.043 0.046 0.045 0.048 0.044 0.047 0.042   0.045    4.65
56)  n-butyl alcohol
            0.009 0.013       0.013 0.013 0.012 0.013 0.012 0.011   0.012   11.27
57)  carbon tetrachloride
            0.462 0.432 0.491 0.531 0.536 0.428 0.533 0.547 0.449   0.490    9.85
58)  1,1-dichloropropene
            0.498 0.481 0.516 0.562 0.549 0.495 0.547 0.582 0.486   0.524    7.04
59)  hexane
            0.514 0.497 0.559 0.543 0.533 0.514 0.548 0.607 0.493   0.534    6.61
60)  benzene
            1.465 1.432 1.509 1.667 1.625 1.350 1.540 1.738 1.441   1.530    8.19
61)  heptane
            0.281 0.260       0.305 0.303 0.278 0.316 0.336 0.253   0.291    9.74
62)  isopropyl acetate
            0.603             0.786 0.775       0.774 0.783 0.661   0.730   10.71
63)  1,2-dichloroethane
            0.483 0.461 0.512 0.565 0.564 0.427 0.554 0.581 0.479   0.514   10.59
64)  Ethyl Acrylate
            0.403             0.544 0.537       0.534 0.526 0.419   0.494   13.07
65)  trichloroethene
            0.374 0.356 0.392 0.422 0.421 0.347 0.416 0.438 0.362   0.392    8.55
66)  2-nitropropane
            0.104             0.136 0.139       0.141 0.130 0.108   0.126   12.93
67)  2-chloroethyl vinyl ether
            0.221 0.221       0.270 0.268       0.258 0.277 0.231   0.249    9.68
68)  methyl methacrylate
            0.097             0.126 0.126       0.128 0.127 0.098   0.117   12.83
69)  tert-amyl ethyl ether
            0.516 0.479 0.494 0.624 0.624 0.486 0.601 0.640 0.513   0.553   12.19
70)  1,2-dichloropropane
            0.377 0.373 0.396 0.441 0.435 0.349 0.430 0.453 0.368   0.403    9.35
71)  methylcyclohexane
            0.637 0.622 0.690 0.693 0.696 0.637 0.707 0.762 0.625   0.674    6.99
72)  dibromomethane
            0.222 0.206 0.243 0.263 0.264 0.207 0.262 0.270 0.224   0.240   10.79
73)  bromodichloromethane
            0.457 0.431 0.490 0.558 0.559 0.410 0.553 0.567 0.456   0.498   12.44
74)  cis-1,3-dichloropropene
            0.588 0.540 0.618 0.706 0.702 0.547 0.684 0.727 0.587   0.633   11.44
75)  toluene-d8 (s)
            1.263 1.112 1.447 1.401 1.406 1.406 1.314 1.446 1.219   1.335    8.69
76)  4-methyl-2-pentanone
            0.160 0.141       0.184 0.181       0.184 0.187 0.157   0.171   10.47
77)  toluene
            0.908 0.866 0.975 1.045 1.033 0.810 1.002 1.077 0.896   0.957    9.52
78)  3-methyl-1-butanol
            0.010 0.010       0.013 0.013 0.010 0.014 0.013 0.011   0.012   14.12
79)  trans-1,3-dichloropropene
            0.541 0.511       0.666 0.661       0.647 0.678 0.549   0.608   11.61
80)  ethyl methacrylate
```

Initial Calibration Summary

Job Number: JA93968 **Sample:** VD7671-ICC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188525.D
Project: BMSMC, Building 5 Area, PR

```
            0.486 0.466       0.596 0.588       0.586 0.602 0.502   0.546   10.80
 81)  1,1,2-trichloroethane
            0.275 0.254       0.324 0.323       0.317 0.336 0.279   0.301   10.45
 82)  2-hexanone
            0.166 0.139       0.168 0.167       0.172 0.184 0.151   0.164    8.95

 83) I   chlorobenzene-d5      ----------------ISTD--------------------
 84)  tetrachloroethene
            0.406 0.384 0.447 0.486 0.492 0.367 0.485 0.510 0.412   0.443   11.88
 85)  1,3-dichloropropane
            0.587 0.556 0.689 0.714 0.699 0.518 0.682 0.744 0.612   0.644   12.14
 86)  butyl acetate
            0.152             0.297 0.299       0.310 0.291 0.221   0.261   23.91
             ----- Linear regression -----  Coefficient =  0.9998
               Response Ratio = -0.01629 + 0.31250 *A

 87)  3,3-dimethyl-1-butanol
            0.037 0.040 0.040 0.051 0.049 0.040 0.054 0.048 0.044   0.045   13.21
 88)  dibromochloromethane
            0.344             0.468 0.478       0.472 0.476 0.372   0.435   13.87
 89)  1,2-dibromoethane
            0.335 0.314 0.388 0.435 0.433 0.299 0.424 0.448 0.359   0.382   14.86
 90)  chlorobenzene
            1.019 0.980 1.246 1.215 1.202 0.961 1.162 1.273 1.048   1.123   10.78
 91)  1,1,1,2-tetrachloroethane
            0.358 0.336 0.427 0.456 0.461 0.350 0.455 0.468 0.375   0.410   13.17
 92)  ethylbenzene
            1.764 1.721 2.077 2.107 2.057 1.656 1.903 2.223 1.821   1.925   10.28
 93)  m,p-xylene
            0.710 0.693 0.803 0.835 0.824 0.662 0.764 0.878 0.721   0.766    9.61
 94)  o-xylene
            0.693 0.657 0.779 0.842 0.841 0.633 0.797 0.883 0.718   0.760   11.68
 95)  styrene
            1.166 1.070       1.453 1.443       1.344 1.505 1.213   1.314   12.64
 96)  bromoform
            0.247             0.344 0.359       0.359 0.344 0.262   0.319   15.82
             ----- Linear regression -----  Coefficient =  0.9999
               Response Ratio = -0.01344 + 0.36244 *A


 97) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 98)  isopropylbenzene
            3.477 3.281       3.878 3.762 3.201 3.400 4.061 3.370   3.554    8.69
 99)  4-bromofluorobenzene (s)
            1.133 1.041       1.109 1.122 1.304 1.076 1.137 1.169   1.136    6.88
100)  bromobenzene
            0.853 0.813       1.001 1.009 0.780 0.977 1.036 0.851   0.915   11.01
101)  cyclohexanone
            0.072             0.095 0.085       0.080 0.076 0.086   0.082    9.96
102)  1,1,2,2-tetrachloroethane
            0.932 0.942       1.052 1.022 0.871 0.985 1.108 0.943   0.982    7.72
103)  trans-1,4-dichloro-2-butene
            0.230             0.305 0.305       0.300 0.309 0.241   0.282   12.87
104)  1,2,3-trichloropropane
            0.256 0.244       0.302 0.295 0.243 0.292 0.313 0.263   0.276   10.04
105)  n-propylbenzene
            4.094 3.874       4.545 4.343 3.698 3.839 4.788 3.992   4.147    9.14
106)  p-ethyltoluene
            3.022 2.850       3.633 3.581 2.764 3.243 3.788 3.093   3.247   11.75
107)  2-chlorotoluene
```

Initial Calibration Summary

Job Number: JA93968 **Sample:** VD7671-ICC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188525.D
Project: BMSMC, Building 5 Area, PR

```
            0.823 0.788       0.928 0.935 0.746 0.914 0.962 0.790   0.861    9.64
108)  4-chlorotoluene
            2.684 2.638       2.898 2.834 2.547 2.685 3.029 2.506   2.728    6.57
109)  1,3,5-trimethylbenzene
            3.231 3.006       3.429 3.340 2.863 3.077 3.541 2.980   3.183    7.52
110)  tert-butylbenzene
            2.582 2.414       2.927 2.912 3.124 2.704 3.025 2.515   2.775    9.30
111)  pentachloroethane
            0.526 0.480       0.648 0.659       0.632 0.667 0.540   0.593   12.76
112)  1,2,4-trimethylbenzene
            3.061 2.865       3.467 3.423 2.785 3.113 3.647 3.013   3.172    9.69
113)  sec-butylbenzene
            3.879 3.769       4.373 4.206 3.682 3.742 4.599 3.821   4.009    8.47
114)  1,3-dichlorobenzene
            1.636 1.533       1.939 1.937 1.416 1.838 2.023 1.650   1.746   12.52
115)  p-isopropyltoluene
            3.142 2.950       3.625 3.526 2.870 3.178 3.814 3.161   3.283   10.20
116)  1,4-dichlorobenzene
            1.852 1.803       2.031 2.011 1.810 1.904 2.150 1.785   1.918    6.90
117)  Benzyl Chloride
            1.609             2.155 2.100       2.006 2.182 1.763   1.969   11.82
118)  p-diethylbenzene
            1.897 1.645       2.251 2.230 1.707 2.063 2.308 1.901   2.000   12.64
119)  1,2-dichlorobenzene
            1.680 1.571       1.923 1.901 1.496 1.797 2.024 1.670   1.758   10.48
120)  n-butylbenzene
            1.695 1.532       2.028 2.012       1.924 2.115 1.721   1.861   11.48
121)  1,2,4,5-tetramethylbenzene
            2.676             3.443 3.328       2.937 3.480 2.799   3.111   11.23
122)  1,2-dibromo-3-chloropropane
            0.139             0.175 0.174       0.170 0.180 0.150   0.165    9.91
123)  1,3,5-trichlorobenzene
            1.173             1.513 1.497       1.427 1.551 1.242   1.401   11.15
124)  1,2,4-trichlorobenzene
            0.839             1.237 1.242       1.197 1.231 0.925   1.112   16.26
             ----- Linear regression -----  Coefficient =  0.9993
               Response Ratio = -0.00703 + 1.20930 *A

125)  hexachlorobutadiene
            0.571             0.714 0.719       0.701 0.740 0.590   0.672   10.79
126)  naphthalene
            1.566             2.346 2.294       2.186 2.335 1.759   2.081   16.09
             ----- Linear regression -----  Coefficient =  0.9988
               Response Ratio = 0.02258 + 2.20599 *A

127)  1,2,3-trichlorobenzene
            0.585             0.881 0.885       0.873 0.866 0.657   0.791   16.89
             ----- Linear regression -----  Coefficient =  0.9998
               Response Ratio = -0.01835 + 0.88172 *A

128)  hexachloroethane
            0.530 0.499       0.659 0.671 0.490 0.668 0.668 0.525   0.589   14.29
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MD7671.M          Mon Oct 31 08:47:19 2011   RPT1
```

Initial Calibration Verification

Job Number: JA93968 **Sample:** VD7671-ICV7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188526.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D188526.D Vial: 9
Acq On : 28 Oct 2011 12:50 pm Operator: EmilyT
Sample : ICV7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
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	102	0.00	7.50
		----------	True	Calc.	% Drift	----------		
2	M	1,4-dioxane	1250.000	1129.525	9.6	98	0.00	11.36
		----------	AvgRF	CCRF	% Dev	----------		
3	M	tertiary butyl alcohol	1.299	1.392	-7.2	103	0.00	7.61
4	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	9.75
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.651	0.530	18.6	78	0.00	4.23
7	M	dichlorodifluoromethane	0.741	0.819	-10.5	107	0.00	4.23
8	M	chloromethane	0.790	0.820	-3.8	100	0.00	4.56
9	M	vinyl chloride	0.767	0.818	-6.6	101	0.00	4.82
10	M	bromomethane	0.488	0.510	-4.5	101	0.00	5.44
11	M	chloroethane	0.446	0.503	-12.8	102	0.00	5.62
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.887	0.966	-8.9	103	0.00	6.13
14		pentane	1.233	1.130	8.4	89	0.00	6.23
15	M	ethyl ether	0.376	0.403	-7.2	98	0.00	6.51
16	M	acrolein	0.140	0.162	-15.7	108	0.00	6.66
17	M	chlorotrifluoroethene		----------NA----------				
18	M	1,1-dichloroethene	0.594	0.601	-1.2	97	0.00	6.92
19	M	acetone	0.064	0.072	-12.5	103	-0.01	6.88
20	M	allyl chloride	1.263	1.311	-3.8	98	0.00	7.40
21	M	acetonitrile	0.037	0.041	-10.8	99	0.00	7.25
22	M	acetaldehyde		----------NA----------				
23	M	iodomethane	0.994	1.063	-6.9	97	0.00	7.16
24	M	iso-butyl alcohol	0.003	0.018	-500.0#	507#	-0.01	9.97
25	M	carbon disulfide	1.934	2.020	-4.4	97	0.00	7.32
26	M	methylene chloride	0.685	0.704	-2.8	96	0.00	7.56
27	M	methyl acetate	0.531	0.508	4.3	92	0.00	7.38
28	M	methyl tert butyl ether	1.950	2.087	-7.0	99	0.00	7.96
29	M	trans-1,2-dichloroethene	0.628	0.651	-3.7	98	0.00	7.97
30	M	di-isopropyl ether	2.025	2.113	-4.3	96	0.00	8.56
31	M	ethyl tert-butyl ether	1.952	2.225	-14.0	105	0.00	9.02
32	M	2-butanone	0.079	0.090	-13.9	104	0.00	9.16
33	M	1,1-dichloroethane	1.103	1.162	-5.3	96	0.00	8.49
34	M	chloroprene	0.912	0.987	-8.2	100	0.00	8.64
35	M	acrylonitrile	0.252	0.268	-6.3	99	0.00	7.81
		----------	True	Calc.	% Drift	----------		

Initial Calibration Verification

Job Number: JA93968 **Sample:** VD7671-ICV7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188526.D
Project: BMSMC, Building 5 Area, PR

36	M	vinyl acetate	50.000	54.660	-9.3	113	0.00	8.50
		----------	AvgRF	CCRF	% Dev	----------		
37	M	ethyl acetate	0.078	0.083	-6.4	97	0.00	9.22
38	M	2,2-dichloropropane	0.941	0.971	-3.2	97	0.00	9.25
39	M	cis-1,2-dichloroethene	0.677	0.704	-4.0	96	0.00	9.21
40	M	propionitrile	0.098	0.103	-5.1	99	0.00	9.18
41	M	bromochloromethane	0.322	0.337	-4.7	97	0.00	9.50
42	M	tetrahydrofuran	0.092	0.099	-7.6	98	0.00	9.58
43	M	chloroform	1.014	1.090	-7.5	98	0.00	9.56
44	S	dibromofluoromethane (s)	0.546	0.562	-2.9	98	0.00	9.75
45	S	1,2-dichloroethane-d4 (s)	0.656	0.677	-3.2	97	0.00	10.17
46	M	freon 113	0.467	0.490	-4.9	104	0.00	6.93
47	M	methacrylonitrile	0.370	0.399	-7.8	97	0.00	9.41
48	m	t-butyl formate	0.560	0.642	-14.6	103	0.00	9.64
49	M	1,1,1-trichloroethane	0.911	0.976	-7.1	98	0.00	9.88
50	M	tert-amyl methyl ether	1.888	2.310	-22.4#	115	0.00	10.38
51	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	10.66
52	M	cyclohexane	0.596	0.632	-6.0	101	0.00	10.00
53		tert amyl alcohol	0.018	0.018	0.0	102	0.00	10.12
54	M	2,2,4-trimethylpentane	1.506	1.735	-15.2	113	0.00	10.40
55	M	epichlorohydrin	0.045	0.048	-6.7	103	0.00	11.87
56	M	n-butyl alcohol	0.012	0.013	-8.3	101	0.00	10.72
57	M	carbon tetrachloride	0.490	0.526	-7.3	98	0.00	10.10
58	M	1,1-dichloropropene	0.524	0.546	-4.2	96	0.00	10.06
59	M	hexane	0.534	0.559	-4.7	102	0.00	8.35
60	M	benzene	1.530	1.618	-5.8	96	0.00	10.30
61	M	heptane	0.291	0.330	-13.4	107	0.00	10.56
62	M	isopropyl acetate	0.730	0.796	-9.0	100	0.00	10.22
63	M	1,2-dichloroethane	0.514	0.553	-7.6	97	0.00	10.26
64		Ethyl Acrylate	0.494	0.520	-5.3	95	0.00	11.01
65	M	trichloroethene	0.392	0.412	-5.1	97	0.00	11.02
66	M	2-nitropropane	0.126	0.136	-7.9	99	0.00	11.70
67	M	2-chloroethyl vinyl ether	0.249	0.293	-17.7	108	0.00	11.79
68	M	methyl methacrylate	0.117	0.122	-4.3	96	0.00	11.28
69	M	tert-amyl ethyl ether	0.553	0.629	-13.7	100	0.00	11.24
70	M	1,2-dichloropropane	0.403	0.434	-7.7	98	0.00	11.25
71	M	methylcyclohexane	0.674	0.760	-12.8	109	0.00	11.31
72	M	dibromomethane	0.240	0.265	-10.4	100	0.00	11.39
73	M	bromodichloromethane	0.498	0.548	-10.0	97	0.00	11.52
74	M	cis-1,3-dichloropropene	0.633	0.678	-7.1	95	0.00	12.02
75	S	toluene-d8 (s)	1.335	1.374	-2.9	97	0.00	12.37
76	M	4-methyl-2-pentanone	0.171	0.186	-8.8	100	0.00	12.13
77	M	toluene	0.957	1.020	-6.6	97	0.00	12.45
78	M	3-methyl-1-butanol	0.012	0.014	-16.7	104	0.00	12.12
79	M	trans-1,3-dichloropropene	0.608	0.644	-5.9	96	0.00	12.60
80	M	ethyl methacrylate	0.546	0.607	-11.2	101	0.00	12.64
81	M	1,1,2-trichloroethane	0.301	0.314	-4.3	96	0.00	12.82
82	M	2-hexanone	0.164	0.170	-3.7	100	0.00	13.04
83	I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	13.99
84	M	tetrachloroethene	0.443	0.479	-8.1	98	0.00	13.10
85	M	1,3-dichloropropane	0.644	0.690	-7.1	97	0.00	13.02
		----------	True	Calc.	% Drift	----------		
86	M	butyl acetate	50.000	50.209	-0.4	100	0.00	13.15
		----------	AvgRF	CCRF	% Dev	----------		
87	m	3,3-dimethyl-1-butanol	0.045	0.051	-13.3	101	0.00	13.21

Initial Calibration Verification

Job Number: JA93968 **Sample:** VD7671-ICV7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D188526.D
Project: BMSMC, Building 5 Area, PR

88	M	dibromochloromethane	0.435	0.456	-4.8	97	0.00	13.31
89	M	1,2-dibromoethane	0.382	0.418	-9.4	96	0.00	13.48
90	M	chlorobenzene	1.123	1.182	-5.3	97	0.00	14.02
91	M	1,1,1,2-tetrachloroethane	0.410	0.445	-8.5	97	0.00	14.08
92	M	ethylbenzene	1.925	2.051	-6.5	97	0.00	14.11
93	M	m,p-xylene	0.766	0.813	-6.1	97	0.00	14.23
94	M	o-xylene	0.760	0.827	-8.8	98	0.00	14.69
95	M	styrene	1.314	1.412	-7.5	97	0.00	14.68
		----------	True	Calc.	% Drift	----------		
96	M	bromoform	50.000	49.003	2.0	99	0.00	14.92
		----------	AvgRF	CCRF	% Dev	----------		
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	16.58
98	M	isopropylbenzene	3.554	3.758	-5.7	97	0.00	15.08
99	S	4-bromofluorobenzene (s)	1.136	1.057	7.0	96	0.00	15.27
100	M	bromobenzene	0.915	0.985	-7.7	99	0.00	15.49
101	M	cyclohexanone	0.082	0.093	-13.4	98	0.00	15.18
102	M	1,1,2,2-tetrachloroethane	0.982	1.004	-2.2	96	0.00	15.33
103	M	trans-1,4-dichloro-2-bute	0.282	0.312	-10.6	103	0.00	15.38
104	M	1,2,3-trichloropropane	0.276	0.293	-6.2	97	0.00	15.41
105	M	n-propylbenzene	4.147	4.420	-6.6	98	0.00	15.54
106	M	p-ethyltoluene	3.247	3.486	-7.4	96	0.00	15.65
107	M	2-chlorotoluene	0.861	0.901	-4.6	97	0.00	15.68
108	M	4-chlorotoluene	2.728	2.831	-3.8	98	0.00	15.79
109	M	1,3,5-trimethylbenzene	3.183	3.349	-5.2	98	0.00	15.70
110	M	tert-butylbenzene	2.775	2.864	-3.2	98	0.00	16.09
111	M	pentachloroethane	0.593	0.654	-10.3	101	0.00	16.15
112	M	1,2,4-trimethylbenzene	3.172	3.440	-8.4	100	0.00	16.14
113	M	sec-butylbenzene	4.009	4.274	-6.6	98	0.00	16.34
114	M	1,3-dichlorobenzene	1.746	1.904	-9.0	99	0.00	16.51
115	M	p-isopropyltoluene	3.283	3.666	-11.7	101	0.00	16.48
116	M	1,4-dichlorobenzene	1.918	1.998	-4.2	99	0.00	16.60
117		Benzyl Chloride	1.969	2.565	-30.3#	119	0.00	16.71
118	M	p-diethylbenzene	2.000	2.180	-9.0	97	0.00	16.90
119	M	1,2-dichlorobenzene	1.758	1.893	-7.7	99	0.00	17.03
120	M	n-butylbenzene	1.861	1.997	-7.3	99	0.00	16.93
121	M	1,2,4,5-tetramethylbenzen	3.111	3.344	-7.5	97	0.00	17.76
122	M	1,2-dibromo-3-chloropropa	0.165	0.175	-6.1	100	0.00	17.84
123	M	1,3,5-trichlorobenzene	1.401	1.504	-7.4	100	0.00	18.11
		----------	True	Calc.	% Drift	----------		
124	M	1,2,4-trichlorobenzene	50.000	52.378	-4.8	102	0.00	18.81
		----------	AvgRF	CCRF	% Dev	----------		
125	M	hexachlorobutadiene	0.672	0.695	-3.4	98	0.00	18.98
		----------	True	Calc.	% Drift	----------		
126	M	naphthalene	50.000	51.706	-3.4	98	0.00	19.11
127	M	1,2,3-trichlorobenzene	50.000	52.227	-4.5	103	0.00	19.39
		----------	AvgRF	CCRF	% Dev	----------		
128	M	hexachloroethane	0.589	0.644	-9.3	98	0.00	17.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
D188525.D MD7671.M Mon Oct 31 08:48:18 2011 RPT1

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VD7742-CC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D190174A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\D190174A.D                    Vial: 52
Acq On    : 10 Dec 2011  11:33 am                     Operator: EmilyT
Sample    : cc7671-20                                 Inst    : MSD
Misc      : MS22340,VD7742,5,,100,5,1                 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title        : SW-846 Method 8260B
Last Update  : Fri Dec 09 07:47:41 2011
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	7.51
		----------	True	Calc.	% Drift	----------		
2	M	1,4-dioxane	500.000	602.948	-20.6#	130	0.00	11.37
		----------	AvgRF	CCRF	% Dev	----------		
3	M	tertiary butyl alcohol	1.299	1.186	8.7	90	0.02	7.63
4	I	pentafluorobenzene	1.000	1.000	0.0	97	0.00	9.75
5	M	1,2-dichloro-1,2,2-triflu		----------NA----------				
6	M	chlorodifluoromethane	0.651	0.652	-0.2	88	0.02	4.25
7	M	dichlorodifluoromethane	0.741	0.735	0.8	82	0.02	4.25
8	M	chloromethane	0.790	0.872	-10.4	95	0.00	4.56
9	M	vinyl chloride	0.767	0.851	-11.0	93	0.00	4.82
10	M	bromomethane	0.488	0.506	-3.7	86	0.01	5.45
11	M	chloroethane	0.446	0.482	-8.1	89	0.02	5.63
12	M	vinyl bromide		----------NA----------				
13	M	trichlorofluoromethane	0.887	0.872	1.7	82	0.00	6.14
14		pentane	1.233	1.288	-4.5	92	0.01	6.24
15	M	ethyl ether	0.376	0.364	3.2	83	0.00	6.52
16	M	acrolein	0.140	0.127	9.3	86	0.01	6.68
17	M	chlorotrifluoroethene		----------NA----------				
18	M	1,1-dichloroethene	0.594	0.582	2.0	86	0.01	6.93
19	M	acetone	0.064	0.056	12.5	80	0.02	6.91
20	M	allyl chloride	1.263	1.223	3.2	83	0.00	7.41
21	M	acetonitrile	0.037	0.043	-16.2	118	0.01	7.26
22	M	acetaldehyde		----------NA----------				
23	M	iodomethane	0.994	1.006	-1.2	87	0.00	7.17
24	M	iso-butyl alcohol	0.003	0.003#	0.0	88	0.00	9.98
25	M	carbon disulfide	1.934	2.010	-3.9	88	0.00	7.33
26	M	methylene chloride	0.685	0.660	3.6	84	0.00	7.56
27	M	methyl acetate	0.531	0.475	10.5	82	0.01	7.39
28	M	methyl tert butyl ether	1.950	1.823	6.5	81	0.01	7.97
29	M	trans-1,2-dichloroethene	0.628	0.611	2.7	84	0.00	7.98
30	M	di-isopropyl ether	2.025	2.031	-0.3	86	0.00	8.56
31	M	ethyl tert-butyl ether	1.952	1.900	2.7	84	0.00	9.02
32	M	2-butanone	0.079	0.068	13.9	77	0.00	9.16
33	M	1,1-dichloroethane	1.103	1.064	3.5	82	0.00	8.50
34	M	chloroprene	0.912	0.949	-4.1	90	0.00	8.64
35	M	acrylonitrile	0.252	0.237	6.0	83	0.01	7.82
		----------	True	Calc.	% Drift	----------		

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VD7742-CC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D190174A.D
Project: BMSMC, Building 5 Area, PR

36	M	vinyl acetate	20.000	18.549	7.3	81	0.01	8.51
		----------	AvgRF	CCRF	% Dev	----------		
37	M	ethyl acetate	0.078	0.068	12.8	78	0.01	9.23
38	M	2,2-dichloropropane	0.941	0.916	2.7	85	0.00	9.25
39	M	cis-1,2-dichloroethene	0.677	0.651	3.8	82	0.00	9.21
40	M	propionitrile	0.098	0.093	5.1	87	0.00	9.19
41	M	bromochloromethane	0.322	0.303	5.9	81	0.00	9.50
42	M	tetrahydrofuran	0.092	0.078	15.2	75	0.00	9.59
43	M	chloroform	1.014	0.977	3.6	82	0.00	9.56
44	S	dibromofluoromethane (s)	0.546	0.505	7.5	82	0.00	9.75
45	S	1,2-dichloroethane-d4 (s)	0.656	0.585	10.8	79	0.00	10.17
46	M	freon 113	0.467	0.479	-2.6	91	0.00	6.94
47	M	methacrylonitrile	0.370	0.328	11.4	78	0.00	9.42
48	m	t-butyl formate	0.560	0.512	8.6	79	0.00	9.64
49	M	1,1,1-trichloroethane	0.911	0.890	2.3	83	0.00	9.88
50	M	tert-amyl methyl ether	1.888	1.761	6.7	83	0.00	10.38
51	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00	10.66
52	M	cyclohexane	0.596	0.601	-0.8	89	0.00	10.01
53		tert amyl alcohol	0.018	0.016	11.1	93	0.00	10.13
54	M	2,2,4-trimethylpentane	1.506	1.587	-5.4	92	0.00	10.40
55	M	epichlorohydrin	0.045	0.044	2.2	91	0.00	11.88
56	M	n-butyl alcohol	0.012	0.012	0.0	93	0.00	10.73
57	M	carbon tetrachloride	0.490	0.474	3.3	85	0.00	10.11
58	M	1,1-dichloropropene	0.524	0.504	3.8	85	0.00	10.06
59	M	hexane	0.534	0.536	-0.4	86	0.00	8.35
60	M	benzene	1.530	1.491	2.5	84	0.00	10.30
61	M	heptane	0.291	0.308	-5.8	90	0.00	10.56
62	M	isopropyl acetate	0.730	0.648	11.2	81	0.00	10.22
63	M	1,2-dichloroethane	0.514	0.474	7.8	80	0.00	10.26
64		Ethyl Acrylate	0.494	0.393	20.4#	73	0.01	11.02
65	M	trichloroethene	0.392	0.369	5.9	82	0.00	11.02
66	M	2-nitropropane	0.126	0.100	20.6#	76	0.00	11.71
67	M	2-chloroethyl vinyl ether	0.249	0.258	-3.6	91	0.00	11.78
68	M	methyl methacrylate	0.117	0.100	14.5	77	0.00	11.28
69	M	tert-amyl ethyl ether	0.553	0.499	9.8	76	0.00	11.24
70	M	1,2-dichloropropane	0.403	0.391	3.0	84	0.00	11.25
71	M	methylcyclohexane	0.674	0.694	-3.0	89	0.00	11.31
72	M	dibromomethane	0.240	0.222	7.5	80	0.00	11.39
73	M	bromodichloromethane	0.498	0.471	5.4	81	0.00	11.52
74	M	cis-1,3-dichloropropene	0.633	0.616	2.7	83	0.00	12.02
75	S	toluene-d8 (s)	1.335	1.299	2.7	88	0.00	12.37
76	M	4-methyl-2-pentanone	0.171	0.161	5.8	84	0.00	12.13
77	M	toluene	0.957	0.947	1.0	86	0.00	12.45
78	M	3-methyl-1-butanol	0.012	0.012	0.0	92	0.00	12.12
79	M	trans-1,3-dichloropropene	0.608	0.565	7.1	82	0.00	12.60
80	M	ethyl methacrylate	0.546	0.487	10.8	79	0.00	12.65
81	M	1,1,2-trichloroethane	0.301	0.285	5.3	83	0.00	12.82
82	M	2-hexanone	0.164	0.150	8.5	80	0.02	13.05
83	I	chlorobenzene-d5	1.000	1.000	0.0	108	0.00	13.99
84	M	tetrachloroethene	0.443	0.413	6.8	87	0.00	13.10
85	M	1,3-dichloropropane	0.644	0.571	11.3	83	0.00	13.02
		----------	True	Calc.	% Drift	----------		
86	M	butyl acetate	20.000	17.275	13.6	85	0.01	13.16
		----------	AvgRF	CCRF	% Dev	----------		
87	m	3,3-dimethyl-1-butanol	0.045	0.042	6.7	94	0.00	13.21

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VD7742-CC7671
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** D190174A.D
Project: BMSMC, Building 5 Area, PR

88	M	dibromochloromethane	0.435	0.369	15.2	84	0.00	13.31
89	M	1,2-dibromoethane	0.382	0.347	9.2	83	0.00	13.48
90	M	chlorobenzene	1.123	1.028	8.5	87	0.00	14.02
91	M	1,1,1,2-tetrachloroethane	0.410	0.357	12.9	82	0.00	14.08
92	M	ethylbenzene	1.925	1.800	6.5	87	0.00	14.11
93	M	m,p-xylene	0.766	0.715	6.7	88	0.00	14.23
94	M	o-xylene	0.760	0.698	8.2	85	0.00	14.69
95	M	styrene	1.314	1.169	11.0	84	0.00	14.69
		----------	True	Calc.	% Drift	----------		
96	M	bromoform	20.000	16.931	15.3	86	0.00	14.92
		----------	AvgRF	CCRF	% Dev	----------		
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	16.58
98	M	isopropylbenzene	3.554	3.255	8.4	85	0.00	15.08
99	S	4-bromofluorobenzene (s)	1.136	1.017	10.5	95	0.00	15.27
100	M	bromobenzene	0.915	0.858	6.2	88	0.00	15.49
101	M	cyclohexanone	0.082	0.072	12.2	101	0.00	15.18
102	M	1,1,2,2-tetrachloroethane	0.982	0.861	12.3	82	0.00	15.33
103	M	trans-1,4-dichloro-2-bute	0.282	0.245	13.1	84	0.00	15.39
104	M	1,2,3-trichloropropane	0.276	0.242	12.3	82	0.00	15.41
105	M	n-propylbenzene	4.147	3.916	5.6	87	0.00	15.53
106	M	p-ethyltoluene	3.247	2.844	12.4	80	0.00	15.65
107	M	2-chlorotoluene	0.861	0.778	9.6	86	0.00	15.68
108	M	4-chlorotoluene	2.728	2.472	9.4	87	0.00	15.79
109	M	1,3,5-trimethylbenzene	3.183	2.819	11.4	84	0.00	15.71
110	M	tert-butylbenzene	2.775	2.384	14.1	84	0.00	16.09
111	M	pentachloroethane	0.593	0.530	10.6	84	0.00	16.15
112	M	1,2,4-trimethylbenzene	3.172	2.886	9.0	84	0.00	16.14
113	M	sec-butylbenzene	4.009	3.698	7.8	85	0.00	16.34
114	M	1,3-dichlorobenzene	1.746	1.619	7.3	85	0.00	16.52
115	M	p-isopropyltoluene	3.283	3.022	8.0	84	0.00	16.48
116	M	1,4-dichlorobenzene	1.918	1.742	9.2	86	0.00	16.60
117		Benzyl Chloride	1.969	1.774	9.9	86	0.00	16.71
118	M	p-diethylbenzene	2.000	1.684	15.8	77	0.00	16.89
119	M	1,2-dichlorobenzene	1.758	1.602	8.9	84	0.00	17.03
120	M	n-butylbenzene	1.861	1.693	9.0	85	0.00	16.93
121	M	1,2,4,5-tetramethylbenzen	3.111	2.554	17.9	78	0.00	17.76
122	M	1,2-dibromo-3-chloropropa	0.165	0.151	8.5	89	0.00	17.85
123	M	1,3,5-trichlorobenzene	1.401	1.304	6.9	89	0.00	18.11
		----------	True	Calc.	% Drift	----------		
124	M	1,2,4-trichlorobenzene	20.000	18.875	5.6	97	0.00	18.81
		----------	AvgRF	CCRF	% Dev	----------		
125	M	hexachlorobutadiene	0.672	0.635	5.5	91	0.00	18.98
		----------	True	Calc.	% Drift	----------		
126	M	naphthalene	20.000	21.485	-7.4	110	0.00	19.12
127	M	1,2,3-trichlorobenzene	20.000	22.754	-13.8	117	0.00	19.39
		----------	AvgRF	CCRF	% Dev	----------		
128	M	hexachloroethane	0.589	0.530	10.0	84	0.00	17.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
D188524.D MD7671.M Mon Dec 12 16:15:24 2011 RPT1

Initial Calibration Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: VX5154-ICC5154
Lab FileID: X121119.D

Response Factor Report MSX

```
Method       : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Calibration Files
1   =X121114.D   2   =X121115.D   100 =X121120.D   50  =X121119.D
20  =X121118.D   200 =X121121.D   5   =X121116.D   10  =X121117.D
0.5 =X121113.D       =
```

Compound	1	2	100	50	20	200	5	10	0.5	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol	1.295	1.318	1.312	1.369	1.261	1.319	1.325			1.314	2.48
3) ethyl alcohol										0.000	-1.00
4) 1,4-dioxane	0.114	0.122	0.124	0.131	0.115	0.141	0.123			0.124	7.44
5) I pentafluorobenzene ----------ISTD----------											
6) freon 23										0.000	-1.00
7) freon 115										0.000	-1.00
8) freon 143a										0.000	-1.00
9) freon 152a										0.000	-1.00
10) chlorotrifluoroethene										0.000	-1.00
11) chlorodifluoromethane	0.441	0.359	0.386	0.418	0.400	0.347	0.396	0.361	0.441	0.394	8.79
12) dichlorodifluoromethane	0.560	0.579	0.588	0.636	0.585	0.539	0.598	0.528	0.707	0.591	9.11
13) freon 114										0.000	-1.00
14) freon 142b										0.000	-1.00
15) chloromethane	0.784	0.720	0.679	0.718	0.680	0.627	0.722	0.657		0.698	6.91
16) vinyl chloride	0.585	0.578	0.554	0.595	0.553	0.510	0.581	0.530		0.561	5.27
17) acetaldehyde										0.000	-1.00
18) bromomethane	0.397	0.394	0.310	0.343	0.345	0.263	0.393	0.348		0.349	13.37
19) chloroethane	0.282	0.284	0.281	0.294	0.291	0.245	0.310	0.293		0.285	6.54
20) vinyl bromide										0.000	-1.00
21) trichlorofluoromethane	0.663	0.663	0.640	0.690	0.655	0.588	0.665	0.608		0.646	5.17
22) pentane	0.708	0.720	0.786	0.767	0.640	0.823	0.709			0.736	8.20
23) ethyl ether											

Initial Calibration Summary

Job Number: JA93968 **Sample:** VX5154-ICC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121119.D
Project: BMSMC, Building 5 Area, PR

```
                0.202 0.228 0.236 0.219 0.231 0.256 0.230         0.229    7.22
24)  freon 141b
                                                                  0.000   -1.00
25)  freon 123a
                                                                  0.000   -1.00
26)  freon 123
                                                                  0.000   -1.00
27)  acrolein
           0.067 0.068       0.074 0.070       0.072 0.078 0.059   0.070    8.71
28)  1,1-dichloroethene
           0.251 0.350 0.352 0.385 0.337 0.340 0.433 0.334         0.348   14.78
29)  acetone
                      0.028 0.028 0.025 0.030 0.026 0.028         0.027    6.93
30)  allyl chloride
                0.231 0.231 0.263 0.234 0.232 0.298 0.242         0.247   10.21
31)  acetonitrile
                      0.032 0.033 0.033 0.031 0.040 0.032         0.034    9.91
32)  iodomethane
                0.729 0.750 0.805 0.728 0.739 0.903 0.728         0.769    8.46
33)  iso-butyl alcohol
                0.018 0.018 0.018 0.018 0.018 0.018 0.018         0.018    1.94
34)  carbon disulfide
                1.323 1.282 1.411 1.252 1.240 1.586 1.201         1.328    9.98
35)  methylene chloride
           0.375 0.453 0.423 0.450 0.430 0.424 0.522 0.438 0.472   0.443    9.02
36)  methyl acetate
           0.312 0.276 0.289 0.289 0.310 0.289 0.298 0.312 0.282   0.295    4.58
37)  methyl tert butyl ether
           0.771 1.068 1.099 1.132 1.070 1.103 1.260 1.098         1.075   12.75
38)  trans-1,2-dichloroethene
           0.298 0.416 0.392 0.434 0.389 0.383 0.495 0.397         0.400   13.80
39)  di-isopropyl ether
           1.939 1.625 1.550 1.641 1.675 1.438 1.670 1.697 1.757   1.666    8.28
40)  2-butanone
                      0.041 0.040 0.036 0.042 0.035 0.038         0.039    7.15
41)  1,1-dichloroethane
           0.545 0.787 0.745 0.814 0.759 0.724 0.925 0.757         0.757   14.00
42)  chloroprene
           0.734 0.602 0.605 0.654 0.648 0.555 0.654 0.612 0.615   0.631    7.89
43)  acrylonitrile
                0.117 0.126 0.127 0.120 0.128 0.135 0.126         0.126    4.62
44)  vinyl acetate
                      0.062 0.060 0.061 0.059 0.055 0.058         0.059    4.32
45)  ethyl tert-butyl ether
           1.638 1.306 1.314 1.370 1.386 1.243 1.380 1.406 1.417   1.384    7.97
46)  ethyl acetate
                      0.039 0.039 0.039 0.038 0.036 0.039         0.038    2.99
47)  2,2-dichloropropane
                0.591 0.562 0.620 0.557 0.534 0.711 0.545         0.588   10.44
48)  cis-1,2-dichloroethene
           0.401 0.476 0.449 0.480 0.451 0.439 0.549 0.450         0.462    9.24
49)  propionitrile
                0.048 0.049 0.048 0.047 0.050 0.053 0.049         0.049    4.12
50)  tert-Butyl Formate
           0.362 0.315 0.327 0.328 0.337 0.321 0.321 0.340 0.250   0.322    9.49
51)  bromochloromethane
                0.222 0.226 0.234 0.219 0.227 0.258 0.229         0.231    5.66
52)  tetrahydrofuran
                0.145 0.130 0.131 0.125 0.133 0.151 0.136         0.136    6.54
53)  chloroform
```

Initial Calibration Summary

Job Number: JA93968 **Sample:** VX5154-ICC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121119.D
Project: BMSMC, Building 5 Area, PR

```
          0.543 0.772 0.726 0.783 0.726 0.712 0.902 0.741         0.738   13.44
54)  dibromofluoromethane (s)
                      0.421 0.436 0.425 0.358 0.325 0.458         0.404   12.60
55)  1,2-dichloroethane-d4 (s)
                      0.419 0.427 0.420 0.360 0.337 0.469         0.405   11.87
56)  freon 113
          0.333 0.274 0.307 0.329 0.323 0.279 0.333 0.292 0.272   0.305    8.44
57)  methacrylonitrile
                0.206 0.228 0.228 0.213 0.235 0.252 0.227         0.227    6.53
58)  1,1,1-trichloroethane
          0.430 0.578 0.596 0.649 0.571 0.577 0.705 0.550         0.582   13.61
59)  cyclohexane
                0.554 0.563 0.626 0.532 0.542 0.701 0.520         0.577   11.23
60)  tert amyl alcohol
                                                                  0.000   -1.00
61)  iso-octane
                1.584 1.564 1.714 1.682 1.416 1.808 1.593         1.623    7.74

62) I   1,4-difluorobenzene   ----------------ISTD--------------------
63)  di-isobutylene
                                                                  0.000   -1.00
64)  epichlorohydrin
          0.022 0.021 0.022 0.021 0.022 0.021 0.020 0.022         0.021    2.87
65)  n-butyl alcohol
                0.007 0.008 0.008 0.008 0.008 0.007 0.008         0.008    6.73
66)  carbon tetrachloride
          0.278 0.414 0.385 0.420 0.381 0.372 0.464 0.357         0.384   14.18
67)  1,1-dichloropropene
          0.286 0.408 0.391 0.420 0.385 0.375 0.478 0.370         0.389   13.86
68)  hexane
                      0.407 0.434 0.433 0.369 0.455 0.407         0.417    7.19
69)  benzene
          0.897 1.234 1.110 1.201 1.132 1.061 1.395 1.139         1.146   12.48
70)  tert-amyl methyl ether
          1.036 0.860 0.798 0.819 0.865 0.762 0.856 0.882 0.883   0.862    8.91
71)  heptane
          0.272 0.224 0.248 0.257 0.254 0.224 0.260 0.230 0.241   0.245    6.87
72)  isopropyl acetate
          0.671 0.533 0.535 0.529 0.550 0.503 0.548 0.579 0.607   0.562    9.01
73)  1,2-dichloroethane
          0.260 0.360 0.342 0.358 0.345 0.341 0.414 0.362         0.348   12.25
74)  trichloroethene
          0.224 0.322 0.315 0.334 0.302 0.303 0.380 0.296         0.309   14.13
75)  ethyl acrylate
                                                                  0.000   -1.00
76)  tert amyl ethyl ether
                                                                  0.000   -1.00
77)  2-nitropropane
                      0.004 0.004       0.004                     0.004    1.43
78)  2-chloroethyl vinyl ether
          0.125 0.103 0.108 0.108 0.110 0.105 0.106 0.111 0.103   0.109    6.20
79)  methyl methacrylate
                0.160 0.174 0.172 0.166 0.178 0.186 0.173         0.173    4.70
80)  1,2-dichloropropane
          0.253 0.333 0.321 0.335 0.319 0.313 0.385 0.318         0.322   11.23
81)  dibromomethane
                0.170 0.175 0.177 0.170 0.176 0.200 0.175         0.177    5.92
82)  methylcyclohexane
          0.558 0.434 0.456 0.492 0.482 0.412 0.501 0.444 0.483   0.474    9.11
83)  bromodichloromethane
```

Initial Calibration Summary

Job Number: JA93968 **Sample:** VX5154-ICC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121119.D
Project: BMSMC, Building 5 Area, PR

```
            0.277 0.398 0.405 0.419 0.391 0.401 0.465 0.399          0.394   13.45
 84)  cis-1,3-dichloropropene
            0.352 0.523 0.514 0.534 0.505 0.501 0.578 0.522          0.504   13.03
 85)  toluene-d8 (s)
                        1.045 1.115 1.105 0.853 0.894 1.200          1.035   13.08
 86)  4-methyl-2-pentanone
                  0.090 0.105 0.102 0.098 0.108 0.107 0.102          0.102    6.07
 87)  toluene
            0.562 0.775 0.718 0.773 0.722 0.687 0.895 0.727          0.732   12.76
 88)  3-methyl-1-butanol
                  0.010 0.012 0.012 0.012 0.012 0.010 0.011          0.011    7.32
 89)  trans-1,3-dichloropropene
            0.310 0.455 0.454 0.465 0.440 0.445 0.509 0.455          0.441   12.97
 90)  ethyl methacrylate
                  0.307 0.336 0.336 0.312 0.336 0.348 0.328          0.329    4.49
 91)  1,1,2-trichloroethane
            0.146 0.230 0.217 0.220 0.211 0.215 0.249 0.218          0.213   13.88
 92)  2-hexanone
                  0.097 0.098 0.095 0.088 0.099 0.101 0.090          0.095    4.91

 93) I   chlorobenzene-d5      ----------------ISTD---------------------
 94)  3,3-Dimethyl-1-butanol
                  0.022 0.028 0.027 0.027 0.029 0.024 0.026          0.026    9.25
 95)  tetrachloroethene
                  0.323 0.296 0.319 0.292 0.283 0.362 0.282          0.308    9.27
 96)  1,3-dichloropropane
                  0.463 0.433 0.451 0.443 0.432 0.524 0.459          0.458    6.85
 97)  butyl acetate
                  0.184 0.194 0.192 0.200 0.188 0.188 0.205          0.193    3.72
 98)  dibromochloromethane
            0.261 0.358 0.354 0.364 0.345 0.357 0.398 0.350          0.348   11.13
 99)  1,2-dibromoethane
            0.209 0.276 0.278 0.282 0.271 0.282 0.305 0.287          0.274   10.20
100)  n-butyl ether
                                                                     0.000   -1.00
101)  chlorobenzene
            0.674 0.943 0.890 0.948 0.903 0.855 1.073 0.901          0.898   12.43
102)  1,1,1,2-tetrachloroethane
            0.246 0.354 0.330 0.349 0.339 0.325 0.395 0.333          0.334   12.51
103)  ethylbenzene
            1.104 1.559 1.413 1.541 1.460 1.332 1.794 1.453          1.457   13.56
104)  m,p-xylene
            0.434 0.633 0.557 0.605 0.571 0.529 0.705 0.567          0.575   13.75
105)  o-xylene
            0.420 0.627 0.576 0.614 0.573 0.556 0.701 0.570          0.580   13.73
106)  styrene
                  1.005 0.956 1.018 0.962 0.917 1.141 0.951          0.993    7.41
107)  bromoform
                  0.264 0.257 0.256 0.238 0.264 0.258 0.242          0.254    4.03

108) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
109)  isopropylbenzene
                  2.974 2.668 2.929 2.844 2.545 3.371 2.747          2.868    9.31
110)  4-bromofluorobenzene (s)
                        0.823 0.881 0.897 0.696 0.893 1.093          0.881   14.64
111)  bromobenzene
            0.678 0.887 0.766 0.822 0.809 0.748 0.930 0.809 0.757    0.801    9.45
112)  1,1,2,2-tetrachloroethane
            0.628 0.795 0.669 0.675 0.671 0.687 0.755 0.706 0.686    0.697    7.17
113)  trans-1,4-dichloro-2-butene
```

Initial Calibration Summary

Job Number: JA93968 **Sample:** VX5154-ICC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121119.D
Project: BMSMC, Building 5 Area, PR

```
                    0.174 0.170 0.167 0.164 0.177 0.175 0.172         0.171    2.69
114)  1,2,3-trichloropropane
                    0.187 0.162 0.163 0.168 0.168 0.186 0.174         0.173    5.88
115)  n-propylbenzene
                    3.689 3.077 3.396 3.324 2.886 4.018 3.228         3.374   11.25
116)  4-ethyltoluene
                                                                      0.000   -1.00
117)  2-chlorotoluene
                    0.815 0.703 0.755 0.729 0.685 0.857 0.737         0.754    8.15
118)  4-chlorotoluene
                    2.338 1.997 2.134 2.080 1.923 2.469 2.040         2.140    9.11
119)  1,3,5-trimethylbenzene
                    2.543 2.213 2.405 2.341 2.117 2.793 2.281         2.385    9.46
120)  tert-butylbenzene
                    2.273 1.997 2.177 2.094 1.908 2.500 2.001         2.136    9.45
121)  pentachloroethane
                    0.615 0.506 0.535 0.522 0.511 0.602 0.519         0.544    8.23
122)  1,2,4-trimethylbenzene
                    2.655 2.269 2.475 2.386 2.167 2.783 2.326         2.437    8.93
123)  1,2,3-trimethylbenzene
                                                                      0.000   -1.00
124)  sec-butylbenzene
                    3.442 2.968 3.244 3.080 2.780 3.759 2.958         3.176   10.54
125)  1,3-dichlorobenzene
              1.265 1.731 1.441 1.533 1.497 1.396 1.755 1.479 1.610   1.523   10.30
126)  p-isopropyltoluene
                    2.850 2.506 2.733 2.567 2.350 3.105 2.500         2.659    9.64
127)  1,4-dichlorobenzene
              1.334 1.731 1.464 1.535 1.499 1.413 1.761 1.497 1.726   1.551    9.85
128)  1,2-dichlorobenzene
              1.204 1.604 1.377 1.450 1.406 1.343 1.632 1.416 1.640   1.453   10.14
129)  benzyl chloride
                    1.284 1.295 1.301 1.385 1.240 1.306 1.364         1.311    3.75
130)  1,4-diethylbenzene
                                                                      0.000   -1.00
131)  n-butylbenzene
                    1.453 1.382 1.488 1.364 1.324 1.616 1.285         1.416    7.95
132)  1,2,4,5-tetramethylbenzene
                                                                      0.000   -1.00
133)  1,2-dibromo-3-chloropropane
                    0.152 0.119 0.115 0.113 0.124 0.128 0.116         0.124   10.95
134)  1,3,5-trichlorobenzene
                    1.425 1.300 1.392 1.306 1.247 1.468 1.257         1.342    6.43
135)  hexachlorobutadiene
                    0.723 0.651 0.703 0.629 0.617 0.765 0.619         0.672    8.65
136)  naphthalene
              1.477 1.876 2.002 1.989 1.844 1.989 1.837 1.773         1.848    9.33
137)  1,2,4-trichlorobenzene
              0.834 1.109 1.132 1.177 1.068 1.099 1.142 1.025 1.130   1.080    9.46
138)  1,2,3-trichlorobenzene
                    0.946 1.001 1.017 0.921 0.973 0.941 0.877         0.954    5.02
139)  hexachloroethane
                    0.554 0.531 0.567 0.518 0.518 0.584 0.496         0.538    5.79
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MX5154.M          Tue Nov 29 17:37:53 2011   ACCNJ
```

5.7.4

5

Initial Calibration Verification

Job Number: JA93968 **Sample:** VX5154-ICV5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121124.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\X\vx5154final\X121124.D    Vial: 15
Acq On    : 28 Nov 2011   7:45 pm                    Operator: tamikag
Sample    : ICV5154-50                               Inst    : MSX
Misc      : MS21975,VX5154,5.0,,,,1                  Multiplr: 1.00
MS Integration Params: Rteint.p

Method       : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue Nov 29 09:14:04 2011
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	102	0.00	7.28
2		tertiary butyl alcohol	1.314	1.385	-5.4	108	0.00	7.42
3		ethyl alcohol		----------NA----------				
4		1,4-dioxane	0.124	0.131	-5.6	108	0.00	12.09
5	I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	9.98
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.394	0.311	21.1#	76	0.00	3.78
12		dichlorodifluoromethane	0.591	0.588	0.5	94	0.00	3.76
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.698	0.708	-1.4	100	0.00	4.09
16		vinyl chloride	0.561	0.570	-1.6	98	0.00	4.34
17	m	acetaldehyde		----------NA----------				
18		bromomethane	0.349	0.337	3.4	100	0.00	5.00
19		chloroethane	0.285	0.284	0.4	98	0.00	5.18
20		vinyl bromide		----------NA----------				
21		trichlorofluoromethane	0.646	0.649	-0.5	96	0.00	5.66
22		pentane	0.736	0.511	30.6#	66	0.00	5.73
23		ethyl ether	0.229	0.246	-7.4	106	0.00	6.07
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		acrolein	0.070	0.070	0.0	96	0.00	6.35
28		1,1-dichloroethene	0.348	0.358	-2.9	95	0.00	6.53
29		acetone	0.027	0.030	-11.1	108	0.01	6.59
30		allyl chloride	0.247	0.258	-4.5	100	0.00	7.10
31		acetonitrile	0.034	0.034	0.0	104	-0.01	7.07
32		iodomethane	0.769	0.795	-3.4	101	0.00	6.82
33		iso-butyl alcohol	0.018	0.019	-5.6	109	0.00	10.36
34		carbon disulfide	1.328	1.323	0.4	95	0.00	6.95
35		methylene chloride	0.443	0.463	-4.5	105	0.00	7.32
36		methyl acetate	0.295	0.282	4.4	99	0.00	7.09
37		methyl tert butyl ether	1.075	1.102	-2.5	99	0.00	7.70
38		trans-1,2-dichloroethene	0.400	0.410	-2.5	96	0.00	7.74
39		di-isopropyl ether	1.666	1.546	7.2	96	0.00	8.39
40		2-butanone	0.039	0.042	-7.7	108	0.00	9.28
41		1,1-dichloroethane	0.757	0.810	-7.0	101	0.00	8.41

Initial Calibration Verification

Job Number: JA93968 **Sample:** VX5154-ICV5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121124.D
Project: BMSMC, Building 5 Area, PR

42		chloroprene	0.631	0.539	14.6	84	0.00	8.53
43		acrylonitrile	0.126	0.135	-7.1	108	0.00	7.70
44		vinyl acetate	0.059	0.066	-11.9	112	0.00	8.40
45		ethyl tert-butyl ether	1.384	1.386	-0.1	103	0.00	8.96
46		ethyl acetate	0.038	0.039	-2.6	102	0.00	9.30
47		2,2-dichloropropane	0.588	0.569	3.2	93	0.00	9.31
48		cis-1,2-dichloroethene	0.462	0.482	-4.3	102	0.00	9.31
49		propionitrile	0.049	0.052	-6.1	109	0.00	9.40
50		tert-Butyl Formate	0.322	0.356	-10.6	110	0.00	9.81
51		bromochloromethane	0.231	0.248	-7.4	108	0.00	9.69
52		tetrahydrofuran	0.136	0.137	-0.7	106	0.00	9.74
53		chloroform	0.738	0.777	-5.3	101	0.00	9.78
54	S	dibromofluoromethane (s)	0.404	0.429	-6.2	100	0.00	10.03
55	S	1,2-dichloroethane-d4 (s)	0.405	0.433	-6.9	103	0.00	10.56
56		freon 113	0.305	0.282	7.5	87	0.00	6.50
57		methacrylonitrile	0.227	0.237	-4.4	106	0.00	9.63
58		1,1,1-trichloroethane	0.582	0.607	-4.3	95	0.00	10.08
59		cyclohexane	0.577	0.577	0.0	94	0.00	10.17
60	m	tert amyl alcohol		----------NA----------				
61	m	iso-octane	1.623	1.438	11.4	85	0.00	10.65
62	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	11.14
63		di-isobutylene		----------NA----------				
64		epichlorohydrin	0.021	0.021	0.0	101	0.00	12.68
65		n-butyl alcohol	0.008	0.008	0.0	109	0.00	11.34
66		carbon tetrachloride	0.384	0.394	-2.6	95	0.00	10.34
67		1,1-dichloropropene	0.389	0.397	-2.1	96	0.00	10.31
68		hexane	0.417	0.327	21.6#	77	0.00	8.09
69		benzene	1.146	1.173	-2.4	99	0.00	10.64
70		tert-amyl methyl ether	0.862	0.874	-1.4	109	0.00	10.70
71		heptane	0.245	0.201	18.0	80	0.00	10.88
72		isopropyl acetate	0.562	0.571	-1.6	110	0.00	10.58
73		1,2-dichloroethane	0.348	0.372	-6.9	106	0.00	10.67
74		trichloroethene	0.309	0.325	-5.2	99	0.00	11.58
75	m	ethyl acrylate		----------NA----------				
76	m	tert amyl ethyl ether		----------NA----------				
77		2-nitropropane	0.004	0.004	0.0	96	-0.02	12.63
78		2-chloroethyl vinyl ether	0.109	0.107	1.8	101	0.00	12.67
79		methyl methacrylate	0.173	0.183	-5.8	109	0.00	11.97
80		1,2-dichloropropane	0.322	0.337	-4.7	102	0.00	11.93
81		dibromomethane	0.177	0.187	-5.6	107	0.00	12.14
82		methylcyclohexane	0.474	0.416	12.2	86	0.00	11.86
83		bromodichloromethane	0.394	0.429	-8.9	104	0.00	12.33
84		cis-1,3-dichloropropene	0.504	0.546	-8.3	104	0.00	12.95
85	S	toluene-d8 (s)	1.035	1.065	-2.9	97	0.00	13.33
86		4-methyl-2-pentanone	0.102	0.107	-4.9	107	0.00	13.10
87		toluene	0.732	0.764	-4.4	101	0.00	13.43
88		3-methyl-1-butanol	0.011	0.012	-9.1	108	0.00	13.15
89		trans-1,3-dichloropropene	0.441	0.482	-9.3	105	0.00	13.73
90		ethyl methacrylate	0.329	0.357	-8.5	108	0.00	13.74
91		1,1,2-trichloroethane	0.213	0.231	-8.5	107	0.00	14.01
92		2-hexanone	0.095	0.101	-6.3	109	0.00	14.26
93	I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	15.36
94		3,3-Dimethyl-1-butanol	0.026	0.029	-11.5	111	0.00	14.51
95		tetrachloroethene	0.308	0.307	0.3	99	0.00	14.22
96		1,3-dichloropropane	0.458	0.468	-2.2	106	0.00	14.25
97		butyl acetate	0.193	0.199	-3.1	106	0.00	14.38
98		dibromochloromethane	0.348	0.375	-7.8	105	0.00	14.59
99		1,2-dibromoethane	0.274	0.298	-8.8	108	0.00	14.78

Initial Calibration Verification

Job Number: JA93968 **Sample:** VX5154-ICV5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121124.D
Project: BMSMC, Building 5 Area, PR

100	m	n-butyl ether		----------NA----------				
101		chlorobenzene	0.898	0.949	-5.7	102	0.00	15.40
102		1,1,1,2-tetrachloroethane	0.334	0.354	-6.0	104	0.00	15.49
103		ethylbenzene	1.457	1.484	-1.9	98	0.00	15.49
104		m,p-xylene	0.575	0.589	-2.4	99	0.00	15.63
105		o-xylene	0.580	0.602	-3.8	100	0.00	16.17
106		styrene	0.993	1.029	-3.6	103	0.00	16.19
107		bromoform	0.254	0.268	-5.5	107	0.00	16.52
108	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	18.15
109		isopropylbenzene	2.868	2.823	1.6	97	0.00	16.62
110	S	4-bromofluorobenzene (s)	0.881	0.862	2.2	99	0.00	16.86
111		bromobenzene	0.801	0.847	-5.7	104	0.00	17.08
112		1,1,2,2-tetrachloroethane	0.697	0.716	-2.7	107	0.00	17.01
113		trans-1,4-dichloro-2-bute	0.171	0.174	-1.8	105	0.00	17.06
114		1,2,3-trichloropropane	0.173	0.179	-3.5	111	0.00	17.08
115		n-propylbenzene	3.374	3.254	3.6	97	0.00	17.11
116	m	4-ethyltoluene		----------NA----------				
117		2-chlorotoluene	0.754	0.750	0.5	100	0.00	17.27
118		4-chlorotoluene	2.140	2.138	0.1	101	0.00	17.38
119		1,3,5-trimethylbenzene	2.385	2.351	1.4	99	0.00	17.29
120		tert-butylbenzene	2.136	2.107	1.4	98	0.00	17.67
121		pentachloroethane	0.544	0.528	2.9	100	0.00	17.76
122		1,2,4-trimethylbenzene	2.437	2.432	0.2	99	0.00	17.72
123	m	1,2,3-trimethylbenzene		----------NA----------				
124		sec-butylbenzene	3.176	3.113	2.0	97	0.00	17.91
125		1,3-dichlorobenzene	1.523	1.541	-1.2	101	0.00	18.09
126		p-isopropyltoluene	2.659	2.637	0.8	97	0.00	18.03
127		1,4-dichlorobenzene	1.551	1.549	0.1	102	0.00	18.18
128		1,2-dichlorobenzene	1.453	1.500	-3.2	104	0.00	18.57
129		benzyl chloride	1.311	1.325	-1.1	103	0.00	18.30
130	m	1,4-diethylbenzene		----------NA----------				
131		n-butylbenzene	1.416	1.418	-0.1	96	0.00	18.45
132	m	1,2,4,5-tetramethylbenzen		----------NA----------				
133		1,2-dibromo-3-chloropropa	0.124	0.122	1.6	106	0.00	19.32
134		1,3,5-trichlorobenzene	1.342	1.364	-1.6	99	0.00	19.48
135		hexachlorobutadiene	0.672	0.668	0.6	96	0.00	20.20
136		naphthalene	1.848	2.097	-13.5	106	0.00	20.37
137		1,2,4-trichlorobenzene	1.080	1.171	-8.4	100	0.00	20.10
138	m	1,2,3-trichlorobenzene	0.954	1.047	-9.7	104	0.00	20.60
139		hexachloroethane	0.538	0.554	-3.0	99	0.00	18.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X121119.D MX5154.M Tue Nov 29 17:36:07 2011 ACCNJ

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5173-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121553.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\X\VX5174\X121553.D         Vial: 8
Acq On    :  9 Dec 2011   1:03 pm                    Operator: tamikag
Sample    : CC5154-20                                Inst    : MSX
Misc      : MS22413,VX5173,1.0,,,,1                  Multiplr: 1.00
MS Integration Params: Rteint.p

Method       : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue Nov 29 09:14:04 2011
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	101	-0.02	7.27
2		tertiary butyl alcohol	1.314	1.217	7.4	90	-0.02	7.40
3		ethyl alcohol		----------NA----------				
4		1,4-dioxane	0.124	0.118	4.8	91	-0.02	12.08
5	I	pentafluorobenzene	1.000	1.000	0.0	88	-0.02	9.96
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.394	0.416	-5.6	91	0.00	3.78
12		dichlorodifluoromethane	0.591	0.616	-4.2	93	0.00	3.76
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.698	0.664	4.9	86	-0.01	4.08
16		vinyl chloride	0.561	0.569	-1.4	90	0.00	4.33
17	m	acetaldehyde		----------NA----------				
18		bromomethane	0.349	0.388	-11.2	99	0.00	4.99
19		chloroethane	0.285	0.292	-2.5	88	0.00	5.18
20		vinyl bromide		----------NA----------				
21		trichlorofluoromethane	0.646	0.705	-9.1	95	0.00	5.65
22		pentane	0.736	0.738	-0.3	85	-0.01	5.71
23		ethyl ether	0.229	0.232	-1.3	93	-0.03	6.05
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		acrolein	0.070	0.062	11.4	77	-0.02	6.34
28		1,1-dichloroethene	0.348	0.404	-16.1	105	0.00	6.51
29		acetone	0.027	0.044	-63.0#	158	0.00	6.57
30		allyl chloride	0.247	0.272	-10.1	102	0.00	7.09
31		acetonitrile	0.034	0.031	8.8	84	-0.02	7.06
32		iodomethane	0.769	0.863	-12.2	104	-0.01	6.81
33		iso-butyl alcohol	0.018	0.017	5.6	82	0.00	10.35
34		carbon disulfide	1.328	1.438	-8.3	101	-0.02	6.94
35		methylene chloride	0.443	0.468	-5.6	96	-0.02	7.30
36		methyl acetate	0.295	0.278	5.8	79	-0.02	7.07
37		methyl tert butyl ether	1.075	1.188	-10.5	98	0.00	7.69
38		trans-1,2-dichloroethene	0.400	0.457	-14.2	103	-0.02	7.73
39		di-isopropyl ether	1.666	1.550	7.0	81	-0.02	8.38
40		2-butanone	0.039	0.047	-20.5#	113	-0.02	9.26
41		1,1-dichloroethane	0.757	0.834	-10.2	97	-0.02	8.39

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5173-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121553.D
Project: BMSMC, Building 5 Area, PR

42		chloroprene	0.631	0.633	-0.3	86	-0.02	8.52
43		acrylonitrile	0.126	0.123	2.4	90	-0.02	7.68
44		vinyl acetate	0.059	0.057	3.4	83	-0.01	8.39
45		ethyl tert-butyl ether	1.384	1.353	2.2	86	-0.02	8.94
46		ethyl acetate	0.038	0.039	-2.6	88	-0.01	9.30
47		2,2-dichloropropane	0.588	0.671	-14.1	106	-0.01	9.30
48		cis-1,2-dichloroethene	0.462	0.507	-9.7	99	-0.02	9.29
49		propionitrile	0.049	0.049	0.0	92	0.00	9.39
50		tert-Butyl Formate	0.322	0.338	-5.0	88	-0.02	9.80
51		bromochloromethane	0.231	0.253	-9.5	101	-0.01	9.68
52		tetrahydrofuran	0.136	0.127	6.6	89	-0.02	9.73
53		chloroform	0.738	0.825	-11.8	100	-0.02	9.76
54	S	dibromofluoromethane (s)	0.404	0.446	-10.4	92	-0.02	10.01
55	S	1,2-dichloroethane-d4 (s)	0.405	0.398	1.7	83	-0.01	10.54
56		freon 113	0.305	0.350	-14.8	95	-0.02	6.49
57		methacrylonitrile	0.227	0.214	5.7	88	-0.02	9.61
58		1,1,1-trichloroethane	0.582	0.688	-18.2	106	-0.02	10.06
59		cyclohexane	0.577	0.601	-4.2	99	-0.01	10.15
60	m	tert amyl alcohol		----------NA----------				
61	m	iso-octane	1.623	1.605	1.1	84	-0.02	10.63
62	I	1,4-difluorobenzene	1.000	1.000	0.0	90	-0.02	11.13
63		di-isobutylene		----------NA----------				
64		epichlorohydrin	0.021	0.015	28.6#	63	0.00	12.66
65		n-butyl alcohol	0.008	0.007	12.5	85	-0.01	11.33
66		carbon tetrachloride	0.384	0.453	-18.0	107	-0.02	10.32
67		1,1-dichloropropene	0.389	0.425	-9.3	99	-0.02	10.29
68		hexane	0.417	0.404	3.1	84	-0.01	8.07
69		benzene	1.146	1.253	-9.3	100	-0.02	10.62
70		tert-amyl methyl ether	0.862	0.839	2.7	87	-0.02	10.68
71		heptane	0.245	0.239	2.4	85	-0.02	10.87
72		isopropyl acetate	0.562	0.537	4.4	88	-0.01	10.57
73		1,2-dichloroethane	0.348	0.367	-5.5	96	-0.02	10.66
74		trichloroethene	0.309	0.360	-16.5	107	-0.02	11.56
75	m	ethyl acrylate		----------NA----------				
76	m	tert amyl ethyl ether		----------NA----------				
77		2-nitropropane		----------NA----------				
78		2-chloroethyl vinyl ether	0.109	0.082	24.8#	67	-0.01	12.66
79		methyl methacrylate	0.173	0.172	0.6	93	0.00	11.96
80		1,2-dichloropropane	0.322	0.336	-4.3	95	0.00	11.92
81		dibromomethane	0.177	0.186	-5.1	99	-0.02	12.13
82		methylcyclohexane	0.474	0.485	-2.3	91	-0.02	11.84
83		bromodichloromethane	0.394	0.443	-12.4	102	-0.02	12.31
84		cis-1,3-dichloropropene	0.504	0.544	-7.9	97	-0.01	12.94
85	S	toluene-d8 (s)	1.035	1.190	-15.0	97	-0.01	13.32
86		4-methyl-2-pentanone	0.102	0.102	0.0	93	-0.02	13.09
87		toluene	0.732	0.815	-11.3	102	-0.01	13.42
88		3-methyl-1-butanol	0.011	0.011	0.0	86	0.00	13.14
89		trans-1,3-dichloropropene	0.441	0.479	-8.6	98	-0.01	13.71
90		ethyl methacrylate	0.329	0.336	-2.1	97	0.00	13.73
91		1,1,2-trichloroethane	0.213	0.229	-7.5	98	-0.02	13.99
92		2-hexanone	0.095	0.104	-9.5	107	0.00	14.25
93	I	chlorobenzene-d5	1.000	1.000	0.0	98	-0.02	15.35
94		3,3-Dimethyl-1-butanol	0.026	0.023	11.5	84	-0.01	14.49
95		tetrachloroethene	0.308	0.314	-1.9	105	-0.01	14.20
96		1,3-dichloropropane	0.458	0.434	5.2	96	-0.01	14.23
97		butyl acetate	0.193	0.173	10.4	85	0.00	14.36
98		dibromochloromethane	0.348	0.367	-5.5	104	-0.01	14.58
99		1,2-dibromoethane	0.274	0.280	-2.2	102	-0.02	14.77

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5173-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121553.D
Project: BMSMC, Building 5 Area, PR

100	m	n-butyl ether		----------NA----------				
101		chlorobenzene	0.898	0.926	-3.1	101	0.00	15.39
102		1,1,1,2-tetrachloroethane	0.334	0.355	-6.3	103	0.00	15.48
103		ethylbenzene	1.457	1.512	-3.8	102	-0.02	15.47
104		m,p-xylene	0.575	0.598	-4.0	103	-0.01	15.62
105		o-xylene	0.580	0.605	-4.3	104	0.00	16.16
106		styrene	0.993	0.989	0.4	101	0.00	16.18
107		bromoform	0.254	0.259	-2.0	107	-0.01	16.51
108	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	18.15
109		isopropylbenzene	2.868	2.820	1.7	104	-0.01	16.61
110	S	4-bromofluorobenzene (s)	0.881	0.838	4.9	98	-0.01	16.85
111		bromobenzene	0.801	0.803	-0.2	104	0.00	17.07
112		1,1,2,2-tetrachloroethane	0.697	0.628	9.9	98	-0.01	17.00
113		trans-1,4-dichloro-2-bute	0.171	0.148	13.5	95	0.00	17.05
114		1,2,3-trichloropropane	0.173	0.167	3.5	104	0.00	17.07
115		n-propylbenzene	3.374	3.265	3.2	103	0.00	17.10
116	m	4-ethyltoluene		----------NA----------				
117		2-chlorotoluene	0.754	0.723	4.1	104	0.00	17.26
118		4-chlorotoluene	2.140	2.015	5.8	102	0.00	17.38
119		1,3,5-trimethylbenzene	2.385	2.311	3.1	103	0.00	17.28
120		tert-butylbenzene	2.136	2.106	1.4	105	0.00	17.66
121		pentachloroethane	0.544	0.520	4.4	104	0.00	17.75
122		1,2,4-trimethylbenzene	2.437	2.386	2.1	105	0.00	17.72
123	m	1,2,3-trimethylbenzene		----------NA----------				
124		sec-butylbenzene	3.176	3.119	1.8	106	0.00	17.89
125		1,3-dichlorobenzene	1.523	1.496	1.8	105	-0.01	18.08
126		p-isopropyltoluene	2.659	2.616	1.6	107	0.00	18.03
127		1,4-dichlorobenzene	1.551	1.483	4.4	104	-0.01	18.17
128		1,2-dichlorobenzene	1.453	1.423	2.1	106	-0.01	18.56
129		benzyl chloride	1.311	1.300	0.8	98	0.00	18.29
130	m	1,4-diethylbenzene		----------NA----------				
131		n-butylbenzene	1.416	1.356	4.2	104	0.00	18.44
132	m	1,2,4,5-tetramethylbenzen		----------NA----------				
133		1,2-dibromo-3-chloropropa	0.124	0.108	12.9	99	0.00	19.31
134		1,3,5-trichlorobenzene	1.342	1.314	2.1	105	0.00	19.48
135		hexachlorobutadiene	0.672	0.686	-2.1	114	0.00	20.20
136		naphthalene	1.848	1.842	0.3	105	-0.01	20.36
137		1,2,4-trichlorobenzene	1.080	1.085	-0.5	107	-0.01	20.09
138	m	1,2,3-trichlorobenzene	0.954	0.932	2.3	106	0.00	20.59
139		hexachloroethane	0.538	0.549	-2.0	111	0.00	18.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X121118.D MX5154.M Fri Dec 09 13:57:49 2011 ACCNJ

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5178-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121639.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\X\VX5178\X121639.D         Vial: 2
Acq On    : 12 Dec 2011   9:25 am                    Operator: tamikag
Sample    : CC5154-20                                Inst    : MSX
Misc      : MS22489,VX5178,5.0,,,,1                  Multiplr: 1.00
MS Integration Params: Rteint.p

Method       : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Tue Nov 29 09:14:04 2011
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	122	-0.03	7.26
2		tertiary butyl alcohol	1.314	1.124	14.5	100	-0.04	7.38
3		ethyl alcohol		----------NA----------				
4		1,4-dioxane	0.124	0.115	7.3	107	-0.03	12.06
5	I	pentafluorobenzene	1.000	1.000	0.0	103	-0.03	9.94
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.394	0.464	-17.8	120	-0.03	3.75
12		dichlorodifluoromethane	0.591	0.473	20.0	84	-0.03	3.73
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.698	0.540	22.6#	82	-0.03	4.06
16		vinyl chloride	0.561	0.463	17.5	86	-0.03	4.31
17	m	acetaldehyde		----------NA----------				
18		bromomethane	0.349	0.321	8.0	96	-0.03	4.97
19		chloroethane	0.285	0.237	16.8	84	-0.03	5.15
20		vinyl bromide		----------NA----------				
21		trichlorofluoromethane	0.646	0.558	13.6	88	-0.04	5.62
22		pentane	0.736	0.827	-12.4	112	-0.04	5.69
23		ethyl ether	0.229	0.210	8.3	99	-0.04	6.03
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		acrolein	0.070	0.060	14.3	88	-0.04	6.31
28		1,1-dichloroethene	0.348	0.370	-6.3	113	-0.04	6.49
29		acetone	0.027	0.026	3.7	110	-0.02	6.56
30		allyl chloride	0.247	0.250	-1.2	111	-0.03	7.07
31		acetonitrile	0.034	0.032	5.9	101	-0.04	7.04
32		iodomethane	0.769	0.791	-2.9	112	-0.04	6.79
33		iso-butyl alcohol	0.018	0.016	11.1	91	-0.03	10.33
34		carbon disulfide	1.328	1.344	-1.2	111	-0.04	6.92
35		methylene chloride	0.443	0.432	2.5	104	-0.04	7.29
36		methyl acetate	0.295	0.270	8.5	90	-0.04	7.06
37		methyl tert butyl ether	1.075	1.059	1.5	102	-0.03	7.66
38		trans-1,2-dichloroethene	0.400	0.431	-7.7	114	-0.04	7.71
39		di-isopropyl ether	1.666	1.500	10.0	93	-0.04	8.35
40		2-butanone	0.039	0.036	7.7	104	-0.03	9.25
41		1,1-dichloroethane	0.757	0.764	-0.9	104	-0.04	8.37

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5178-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121639.D
Project: BMSMC, Building 5 Area, PR

42		chloroprene	0.631	0.641	-1.6	102	-0.03	8.50
43		acrylonitrile	0.126	0.113	10.3	98	-0.04	7.66
44		vinyl acetate	0.059	0.063	-6.8	106	-0.03	8.36
45		ethyl tert-butyl ether	1.384	1.327	4.1	99	-0.04	8.92
46		ethyl acetate	0.038	0.038	0.0	99	-0.03	9.27
47		2,2-dichloropropane	0.588	0.623	-6.0	116	-0.04	9.27
48		cis-1,2-dichloroethene	0.462	0.479	-3.7	110	-0.04	9.27
49		propionitrile	0.049	0.046	6.1	102	-0.04	9.36
50		tert-Butyl Formate	0.322	0.339	-5.3	104	-0.04	9.78
51		bromochloromethane	0.231	0.236	-2.2	111	-0.04	9.66
52		tetrahydrofuran	0.136	0.115	15.4	95	-0.04	9.71
53		chloroform	0.738	0.768	-4.1	109	-0.04	9.74
54	S	dibromofluoromethane (s)	0.404	0.454	-12.4	111	-0.04	9.99
55	S	1,2-dichloroethane-d4 (s)	0.405	0.402	0.7	99	-0.03	10.52
56		freon 113	0.305	0.361	-18.4	116	-0.04	6.47
57		methacrylonitrile	0.227	0.193	15.0	94	-0.03	9.59
58		1,1,1-trichloroethane	0.582	0.630	-8.2	114	-0.04	10.04
59		cyclohexane	0.577	0.551	4.5	107	-0.04	10.12
60	m	tert amyl alcohol		----------NA----------				
61	m	iso-octane	1.623	1.569	3.3	96	-0.04	10.61
62	I	1,4-difluorobenzene	1.000	1.000	0.0	108	-0.04	11.11
63		di-isobutylene		----------NA----------				
64		epichlorohydrin	0.021	0.017	19.0	87	-0.03	12.65
65		n-butyl alcohol	0.008	0.007	12.5	95	-0.03	11.31
66		carbon tetrachloride	0.384	0.407	-6.0	115	-0.04	10.29
67		1,1-dichloropropene	0.389	0.390	-0.3	109	-0.04	10.27
68		hexane	0.417	0.412	1.2	102	-0.04	8.05
69		benzene	1.146	1.162	-1.4	110	-0.04	10.60
70		tert-amyl methyl ether	0.862	0.803	6.8	100	-0.03	10.67
71		heptane	0.245	0.230	6.1	98	-0.03	10.85
72		isopropyl acetate	0.562	0.593	-5.5	116	-0.03	10.55
73		1,2-dichloroethane	0.348	0.326	6.3	102	-0.04	10.63
74		trichloroethene	0.309	0.333	-7.8	119	-0.03	11.54
75	m	ethyl acrylate		----------NA----------				
76	m	tert amyl ethyl ether		----------NA----------				
77		2-nitropropane	0.004	0.001	75.0#	0#	-0.02	12.63
78		2-chloroethyl vinyl ether	0.109	0.087	20.2#	85	-0.03	12.64
79		methyl methacrylate	0.173	0.154	11.0	100	-0.03	11.94
80		1,2-dichloropropane	0.322	0.304	5.6	102	-0.03	11.90
81		dibromomethane	0.177	0.171	3.4	108	-0.04	12.10
82		methylcyclohexane	0.474	0.491	-3.6	110	-0.04	11.82
83		bromodichloromethane	0.394	0.396	-0.5	109	-0.03	12.30
84		cis-1,3-dichloropropene	0.504	0.499	1.0	106	-0.03	12.92
85	S	toluene-d8 (s)	1.035	1.238	-19.6	121	-0.03	13.30
86		4-methyl-2-pentanone	0.102	0.092	9.8	101	-0.03	13.07
87		toluene	0.732	0.742	-1.4	111	-0.03	13.40
88		3-methyl-1-butanol	0.011	0.011	0.0	101	-0.03	13.12
89		trans-1,3-dichloropropene	0.441	0.429	2.7	105	-0.03	13.69
90		ethyl methacrylate	0.329	0.297	9.7	102	-0.03	13.71
91		1,1,2-trichloroethane	0.213	0.210	1.4	107	-0.03	13.98
92		2-hexanone	0.095	0.083	12.6	101	-0.03	14.23
93	I	chlorobenzene-d5	1.000	1.000	0.0	125	-0.03	15.33
94		3,3-Dimethyl-1-butanol	0.026	0.021	19.2	100	-0.03	14.48
95		tetrachloroethene	0.308	0.274	11.0	117	-0.03	14.19
96		1,3-dichloropropane	0.458	0.369	19.4	104	-0.03	14.22
97		butyl acetate	0.193	0.157	18.7	97	-0.03	14.35
98		dibromochloromethane	0.348	0.306	12.1	110	-0.03	14.57
99		1,2-dibromoethane	0.274	0.236	13.9	109	-0.03	14.76

Continuing Calibration Summary

Job Number: JA93968 **Sample:** VX5178-CC5154
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X121639.D
Project: BMSMC, Building 5 Area, PR

100	m	n-butyl ether		----------NA----------				
101		chlorobenzene	0.898	0.787	12.4	109	-0.03	15.37
102		1,1,1,2-tetrachloroethane	0.334	0.299	10.5	110	-0.03	15.46
103		ethylbenzene	1.457	1.289	11.5	110	-0.03	15.46
104		m,p-xylene	0.575	0.515	10.4	112	-0.03	15.60
105		o-xylene	0.580	0.523	9.8	114	-0.02	16.15
106		styrene	0.993	0.840	15.4	109	-0.03	16.17
107		bromoform	0.254	0.214	15.7	112	-0.03	16.50
108	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	128	-0.02	18.13
109		isopropylbenzene	2.868	2.501	12.8	113	-0.03	16.59
110	S	4-bromofluorobenzene (s)	0.881	0.867	1.6	124	-0.03	16.84
111		bromobenzene	0.801	0.700	12.6	111	-0.02	17.06
112		1,1,2,2-tetrachloroethane	0.697	0.547	21.5#	105	-0.03	16.98
113		trans-1,4-dichloro-2-bute	0.171	0.134	21.6#	105	-0.03	17.03
114		1,2,3-trichloropropane	0.173	0.141	18.5	108	-0.02	17.06
115		n-propylbenzene	3.374	2.903	14.0	112	-0.02	17.09
116	m	4-ethyltoluene		----------NA----------				
117		2-chlorotoluene	0.754	0.638	15.4	112	-0.03	17.25
118		4-chlorotoluene	2.140	1.776	17.0	110	-0.02	17.36
119		1,3,5-trimethylbenzene	2.385	2.056	13.8	113	-0.03	17.27
120		tert-butylbenzene	2.136	1.873	12.3	115	-0.02	17.65
121		pentachloroethane	0.544	0.453	16.7	111	-0.02	17.74
122		1,2,4-trimethylbenzene	2.437	2.135	12.4	115	-0.02	17.70
123	m	1,2,3-trimethylbenzene		----------NA----------				
124		sec-butylbenzene	3.176	2.713	14.6	113	-0.02	17.88
125		1,3-dichlorobenzene	1.523	1.297	14.8	111	-0.02	18.07
126		p-isopropyltoluene	2.659	2.289	13.9	114	-0.02	18.01
127		1,4-dichlorobenzene	1.551	1.279	17.5	109	-0.02	18.16
128		1,2-dichlorobenzene	1.453	1.234	15.1	113	-0.02	18.55
129		benzyl chloride	1.311	1.150	12.3	107	-0.02	18.28
130	m	1,4-diethylbenzene		----------NA----------				
131		n-butylbenzene	1.416	1.177	16.9	111	-0.02	18.43
132	m	1,2,4,5-tetramethylbenzen		----------NA----------				
133		1,2-dibromo-3-chloropropa	0.124	0.092	25.8#	104	-0.01	19.30
134		1,3,5-trichlorobenzene	1.342	1.098	18.2	108	-0.02	19.46
135		hexachlorobutadiene	0.672	0.582	13.4	119	-0.02	20.18
136		naphthalene	1.848	1.556	15.8	108	-0.03	20.34
137		1,2,4-trichlorobenzene	1.080	0.909	15.8	109	-0.02	20.08
138	m	1,2,3-trichlorobenzene	0.954	0.779	18.3	109	-0.02	20.58
139		hexachloroethane	0.538	0.477	11.3	118	-0.02	18.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X121118.D MX5154.M Mon Dec 12 16:20:38 2011 ACCNJ

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190181.D Vial: 58
Acq On : 10 Dec 2011 3:50 pm Operator: EmilyT
Sample : ja93968-1 Inst : MSD
Misc : MS22716,VD7742,5.2,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:28 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.52	65	147592	500.00	ug/L	0.02
4) pentafluorobenzene	9.75	168	260482	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	419179	50.00	ug/L	0.00
83) chlorobenzene-d5	13.99	117	442904	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	248212	50.00	ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	128597	45.24	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 90.48%			
45) 1,2-dichloroethane-d4 (s)	10.17	65	155170	45.42	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 90.84%			
75) toluene-d8 (s)	12.37	98	549600	49.11	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.22%			
99) 4-bromofluorobenzene (s)	15.27	95	240503	42.63	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 85.26%			

Target Compounds

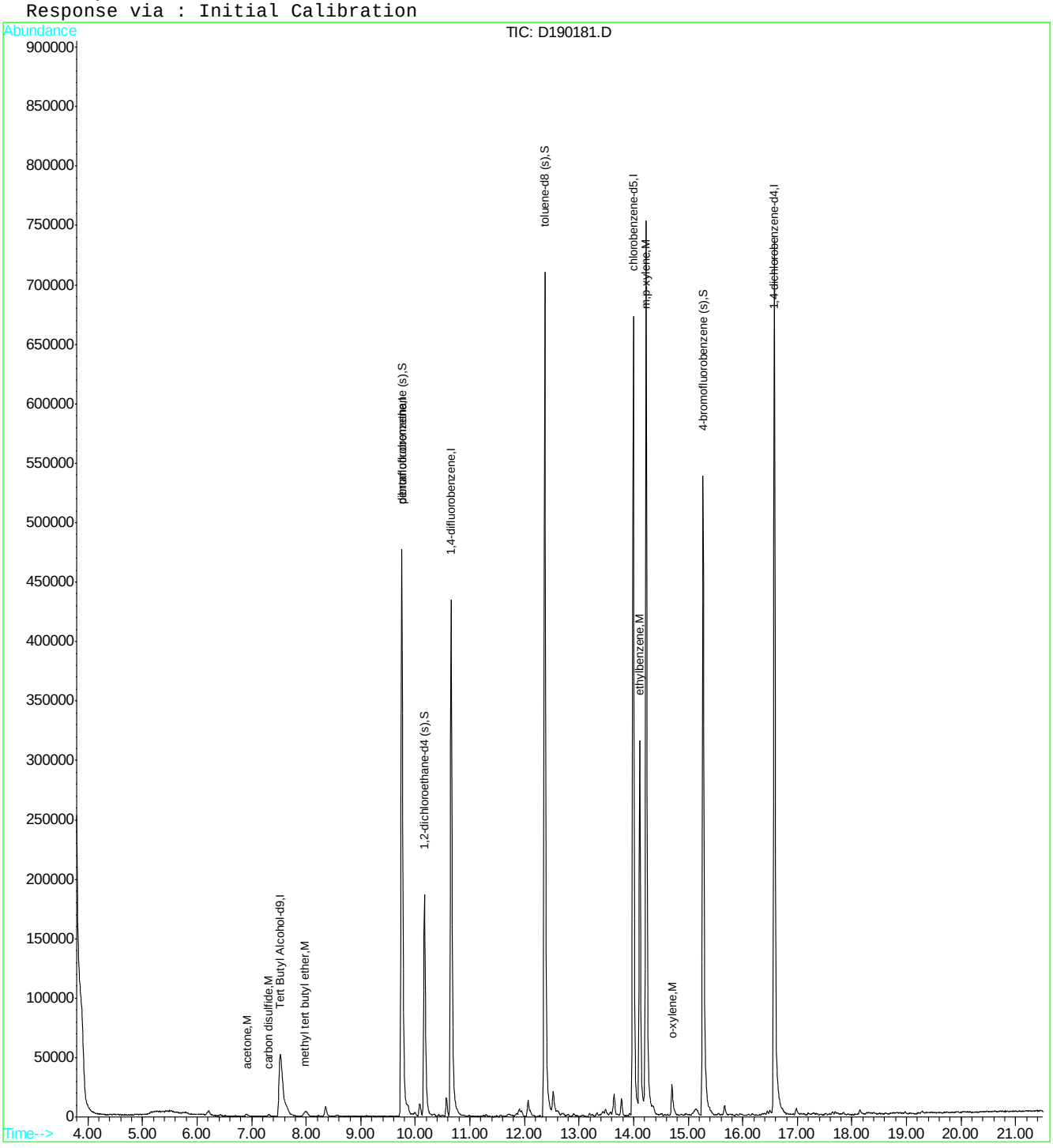
						Qvalue
19) acetone	6.91	58	1177	3.54	ug/L #	63
25) carbon disulfide	7.32	76	3276	0.33	ug/L	97
28) methyl tert butyl ether	7.98	73	5025	0.49	ug/L #	60
92) ethylbenzene	14.11	91	253991	14.89	ug/L	99
93) m,p-xylene	14.23	106	265453	39.15	ug/L	100
94) o-xylene	14.70	106	11502	1.71	ug/L	96

(#) = qualifier out of range (m) = manual integration
D190181.D MD7671.M Mon Dec 12 16:28:34 2011 RPT1

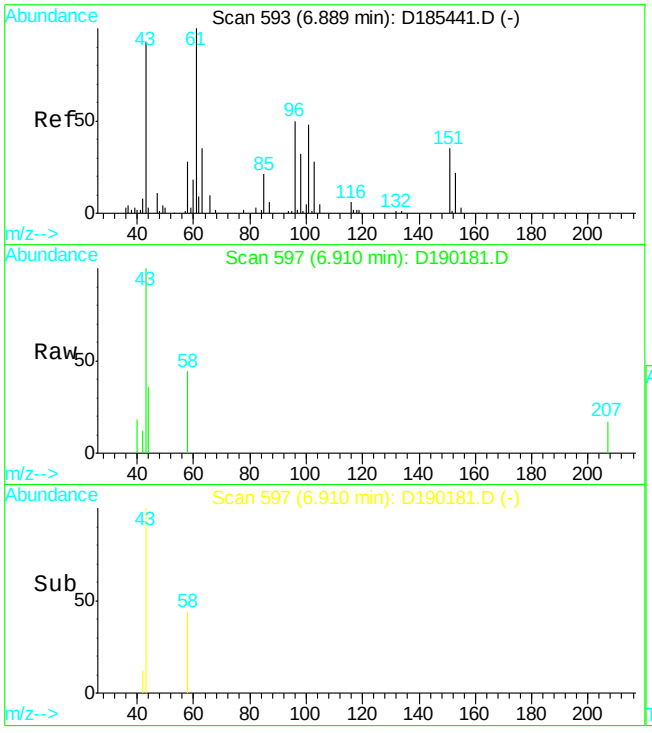
Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190181.D Vial: 58
Acq On : 10 Dec 2011 3:50 pm Operator: EmilyT
Sample : ja93968-1 Inst : MSD
Misc : MS22716,VD7742,5.2,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:28 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



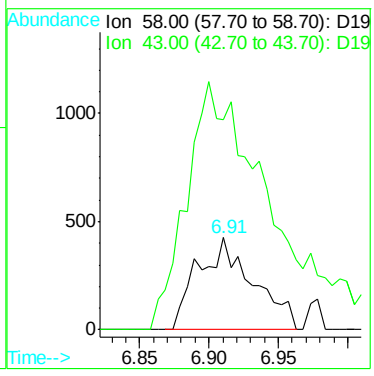
D190181.D MD7671.M Mon Dec 12 16:28:35 2011 RPT1 Page 2

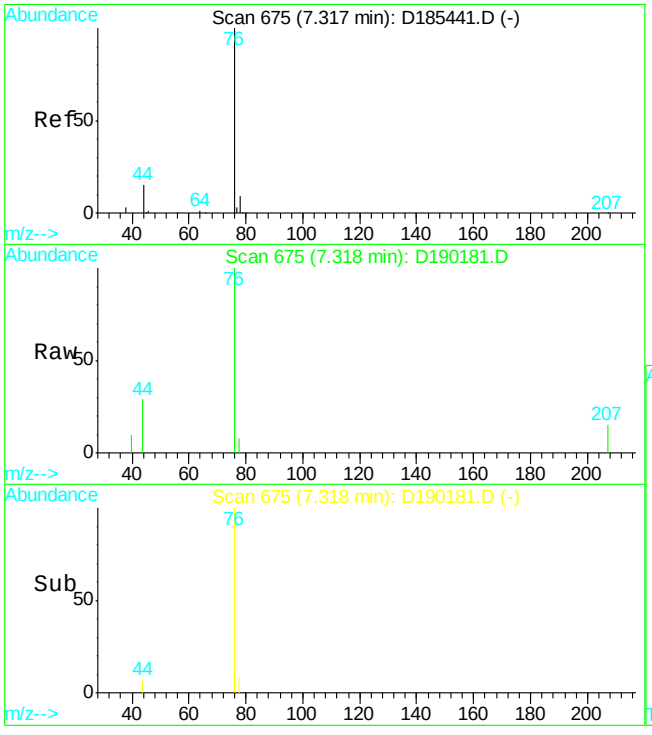


#19
acetone
Concen: 3.54 ug/L
RT: 6.91 min Scan# 597
Delta R.T. 0.02 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion: 58 Resp: 1177

Ion	Ratio	Lower	Upper
58	100		
43	228.9	271.6	331.6#

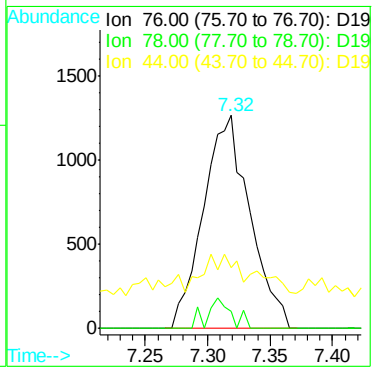


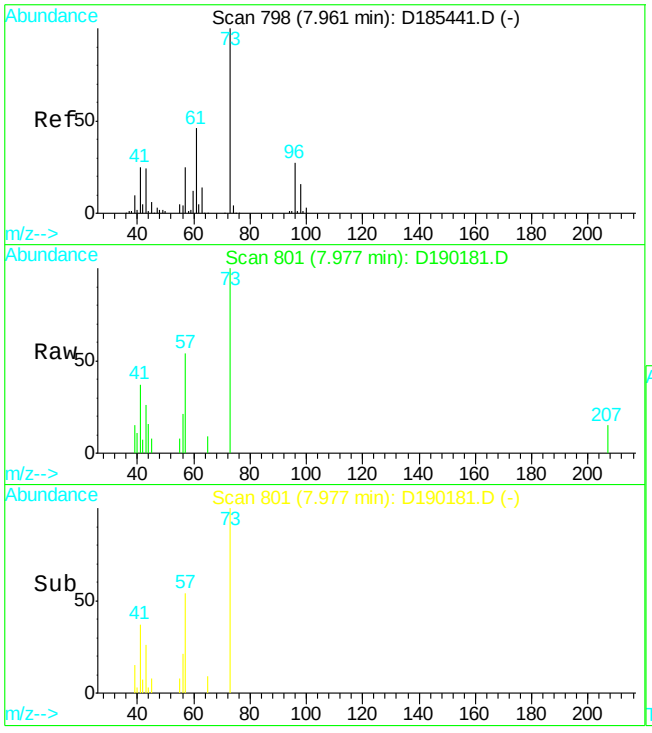


#25
carbon disulfide
Concen: 0.33 ug/L
RT: 7.32 min Scan# 675
Delta R.T. -0.01 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion: 76 Resp: 3276

Ion	Ratio	Lower	Upper
76	100		
78	8.0	0.0	38.9
44	10.7	0.0	42.1

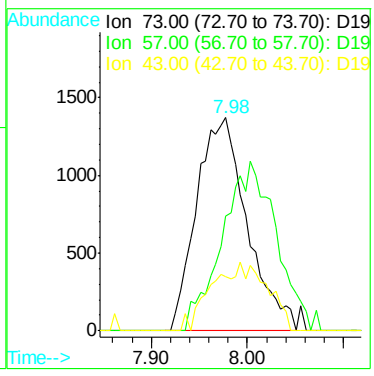


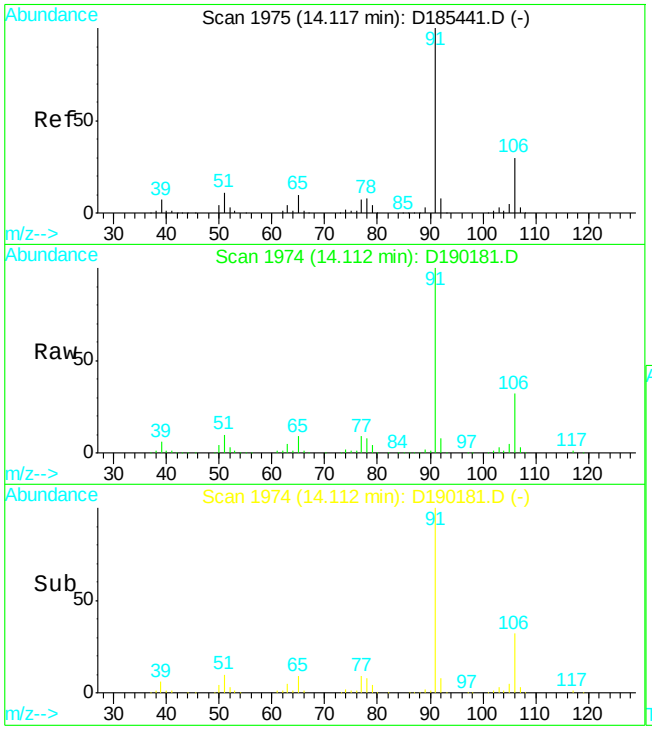


#28
methyl tert butyl ether
Concen: 0.49 ug/L
RT: 7.98 min Scan# 801
Delta R.T. 0.02 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion: 73 Resp: 5025

Ion	Ratio	Lower	Upper
73	100		
57	53.9	0.0	53.0#
43	25.7	0.0	49.9

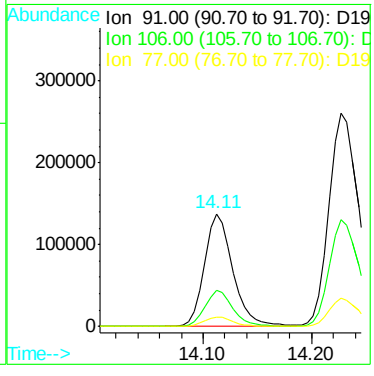


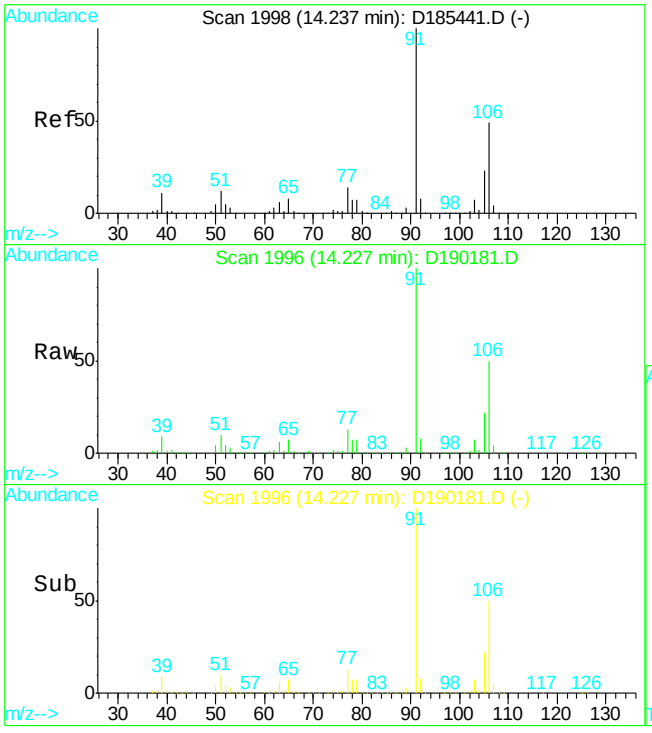


#92
ethylbenzene
Concen: 14.89 ug/L
RT: 14.11 min Scan# 1974
Delta R.T. -0.00 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion: 91 Resp: 253991

Ion	Ratio	Lower	Upper
91	100		
106	31.7	2.1	62.1
77	8.6	0.0	38.8

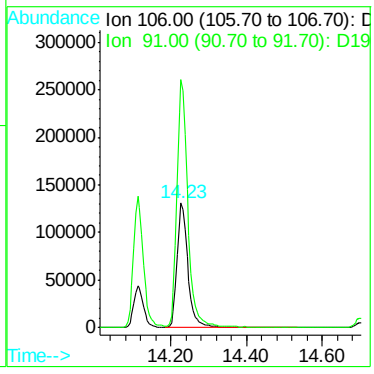


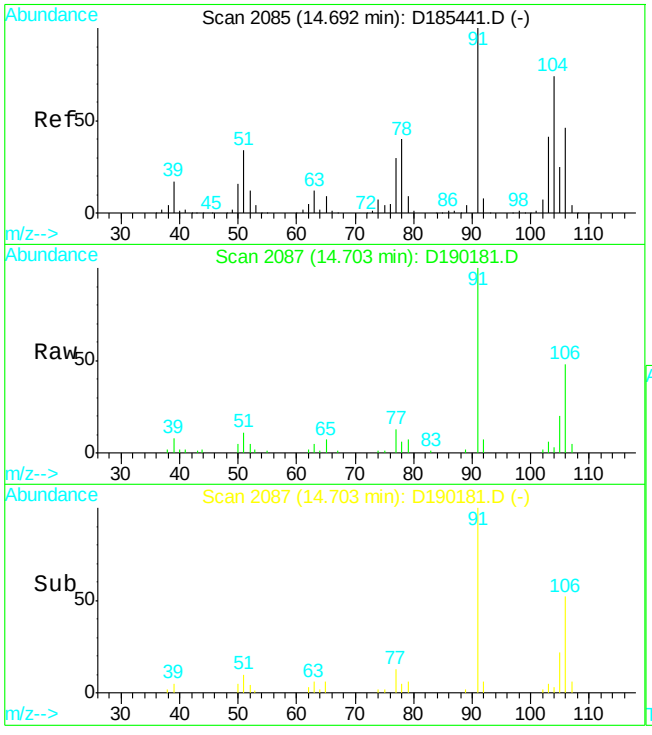


#93
m,p-xylene
Concen: 39.15 ug/L
RT: 14.23 min Scan# 1996
Delta R.T. -0.00 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion:106 Resp: 265453

Ion	Ratio	Lower	Upper
106	100		
91	198.7	139.3	258.7

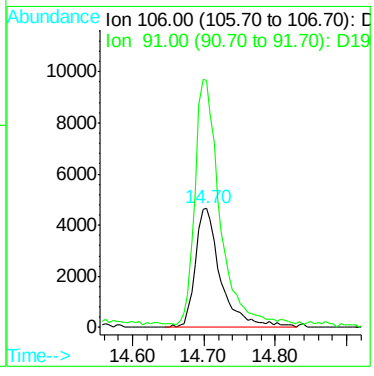




#94
o-xylene
Concen: 1.71 ug/L
RT: 14.70 min Scan# 2087
Delta R.T. 0.02 min
Lab File: D190181.D
Acq: 10 Dec 2011 3:50 pm

Tgt Ion:106 Resp: 11502

Ion	Ratio	Lower	Upper
106	100		
91	204.0	147.0	273.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121566.D
Acq On : 9 Dec 2011 7:47 pm
Operator : tamikag
Sample : JA93968-2
Misc : MS22716,VX5174,5.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 12 13:40:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

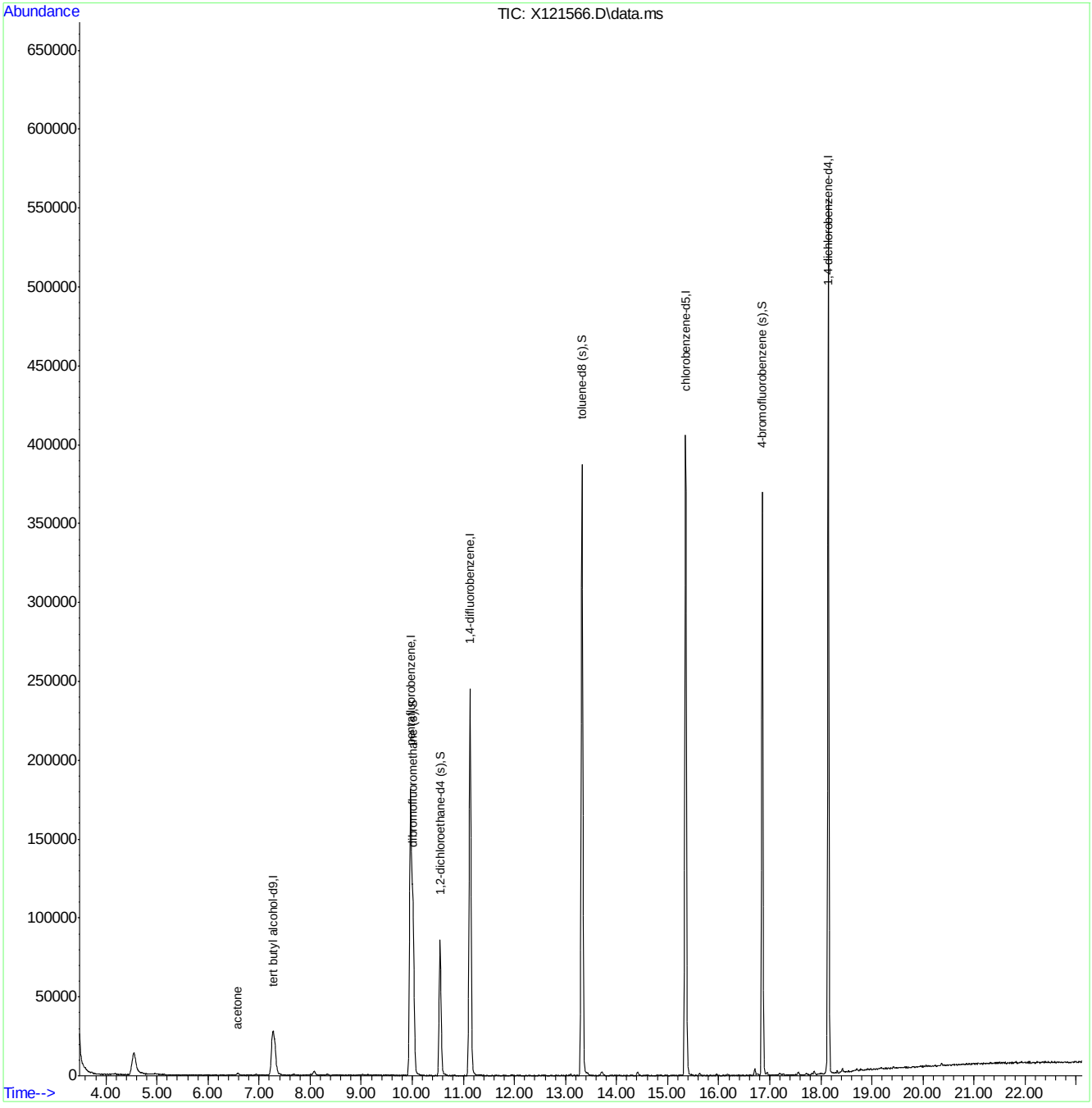
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.272	65	78258	500.00	ug/L	-0.02
5) pentafluorobenzene	9.965	168	210001	50.00	ug/L	-0.01
62) 1,4-difluorobenzene	11.132	114	302530	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.353	117	302272	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.146	152	157926	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.013	113	93525	55.17	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.34%			
55) 1,2-dichloroethane-d4 (s)	10.546	65	83859	49.26	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 98.52%			
85) toluene-d8 (s)	13.323	98	357609	57.08	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 114.16%			
110) 4-bromofluorobenzene (s)	16.854	95	138328	49.73	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.46%			
Target Compounds						Qvalue
29) acetone	6.576	58	989	8.58	ug/L #	67

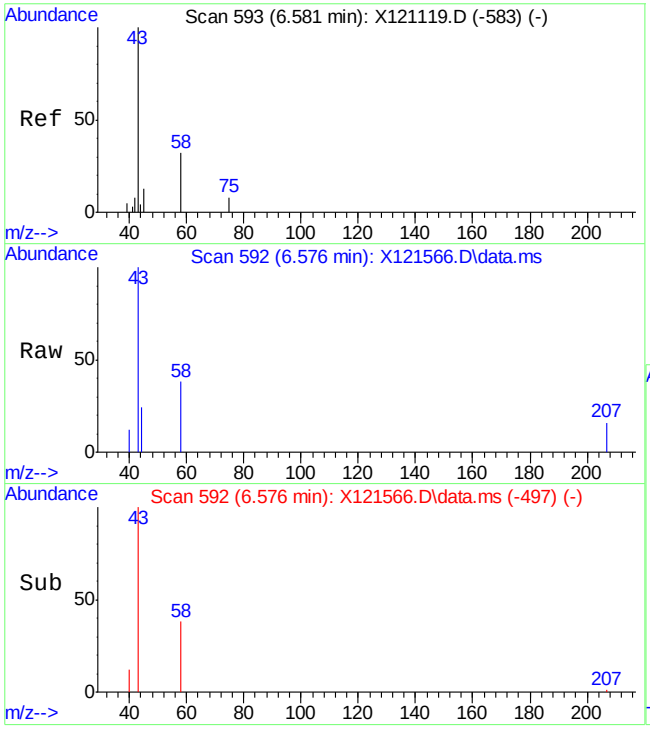
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121566.D
Acq On : 9 Dec 2011 7:47 pm
Operator : tamikag
Sample : JA93968-2
Misc : MS22716,VX5174,5.3,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 12 13:40:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

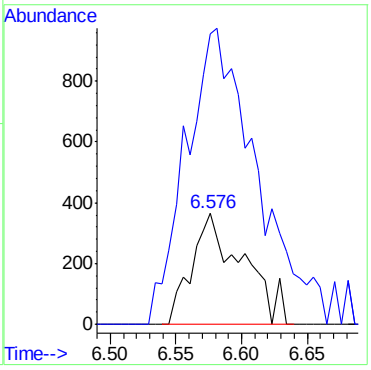




#29
acetone
Concen: 8.58 ug/L
RT: 6.576 min Scan# 592
Delta R.T. -0.005 min
Lab File: X121566.D
Acq: 9 Dec 2011 7:47 pm

Tgt Ion: 58 Resp: 989

Ion	Ratio	Lower	Upper
58	100		
43	260.8	300.3	360.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121649.D
Acq On : 12 Dec 2011 3:17 pm
Operator : tamikag
Sample : JA93968-3
Misc : MS22716,VX5178,4.8,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 12 16:22:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

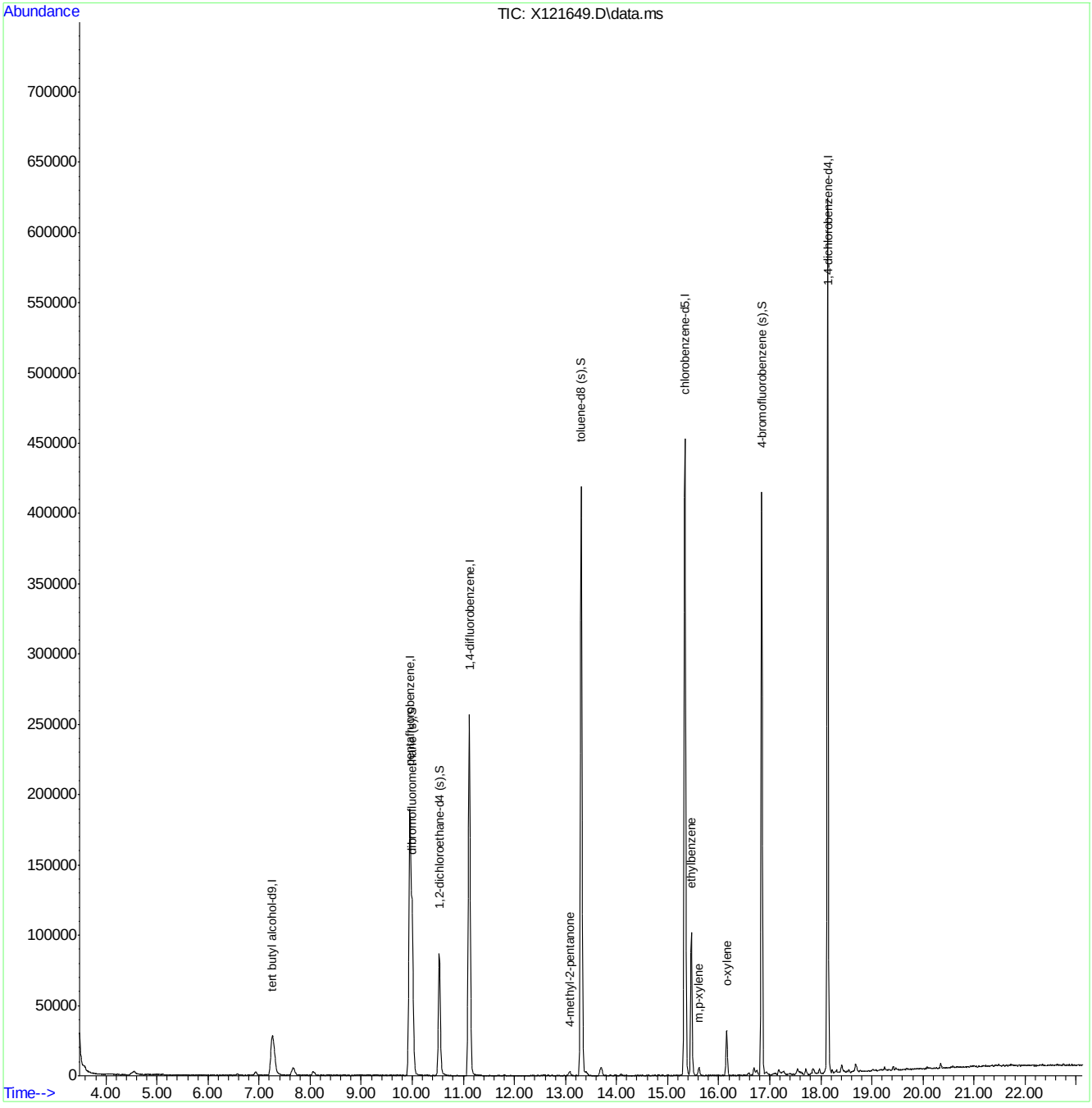
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.256	65	80889	500.00	ug/L	-0.03
5) pentafluorobenzene	9.955	168	220917	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.116	114	324018	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	338857	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	179833	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	9.997	113	97799	54.84	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 109.68%			
55) 1,2-dichloroethane-d4 (s)	10.530	65	84512	47.19	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 94.38%			
85) toluene-d8 (s)	13.308	98	386333	57.58	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 115.16%			
110) 4-bromofluorobenzene (s)	16.843	95	156164	49.31	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 98.62%			
Target Compounds						Qvalue
86) 4-methyl-2-pentanone	13.088	58	1217	1.85	ug/L	96
103) ethylbenzene	15.468	91	94241	9.54	ug/L	99
104) m,p-xylene	15.609	106	2384	0.61	ug/L	93
105) o-xylene	16.158	106	11588	2.95	ug/L	96

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

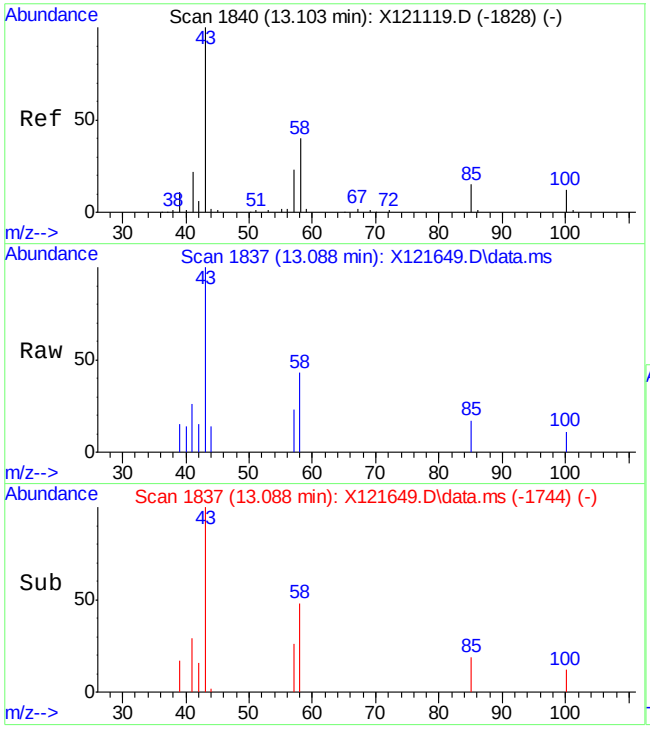
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121649.D
Acq On : 12 Dec 2011 3:17 pm
Operator : tamikag
Sample : JA93968-3
Misc : MS22716,VX5178,4.8,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 12 16:22:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



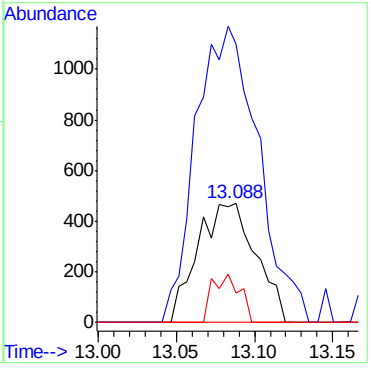
MX5154.M Mon Dec 12 16:26:04 2011 ACCNJ

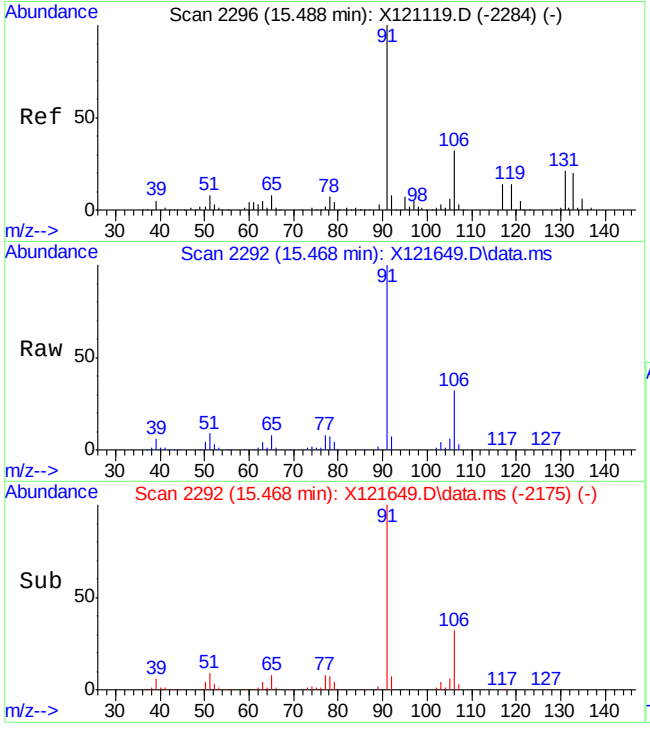


#86
4-methyl-2-pentanone
Concen: 1.85 ug/L
RT: 13.088 min Scan# 1837
Delta R.T. -0.015 min
Lab File: X121649.D
Acq: 12 Dec 2011 3:17 pm

Tgt Ion: 58 Resp: 1217

Ion	Ratio	Lower	Upper
58	100		
43	266.5	240.0	300.0
100	19.2	0.0	59.6

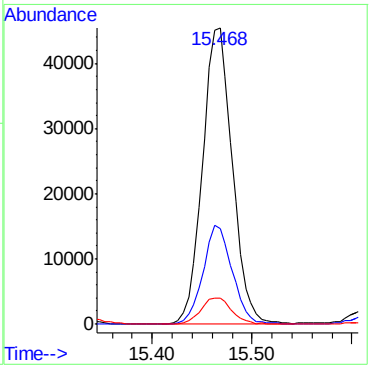


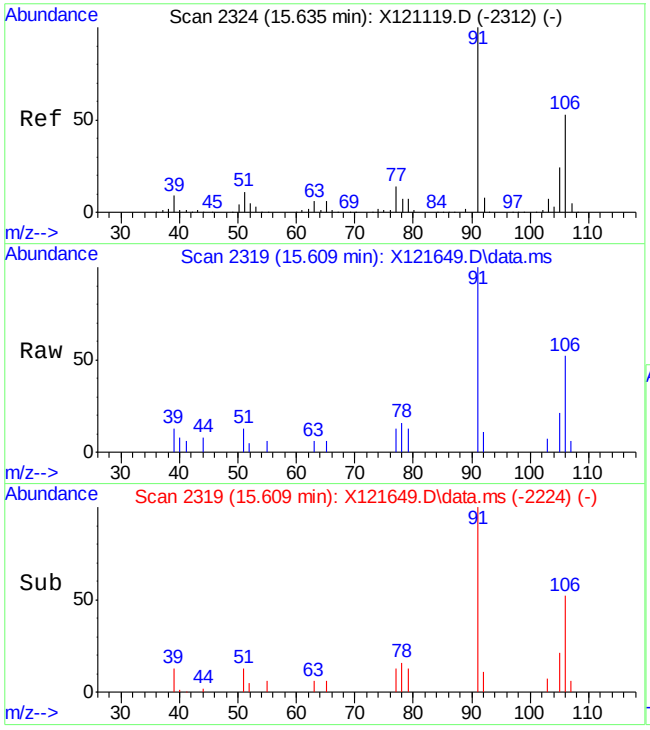


#103
ethylbenzene
Concen: 9.54 ug/L
RT: 15.468 min Scan# 2292
Delta R.T. -0.020 min
Lab File: X121649.D
Acq: 12 Dec 2011 3:17 pm

Tgt Ion: 91 Resp: 94241

Ion	Ratio	Lower	Upper
91	100		
106	32.2	2.4	62.4
51	8.9	0.0	39.8

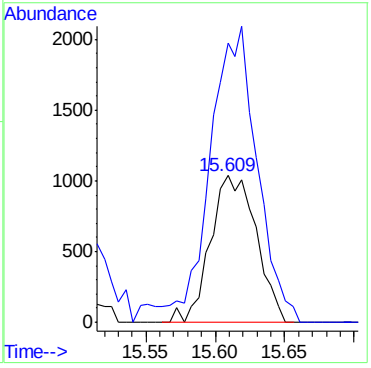


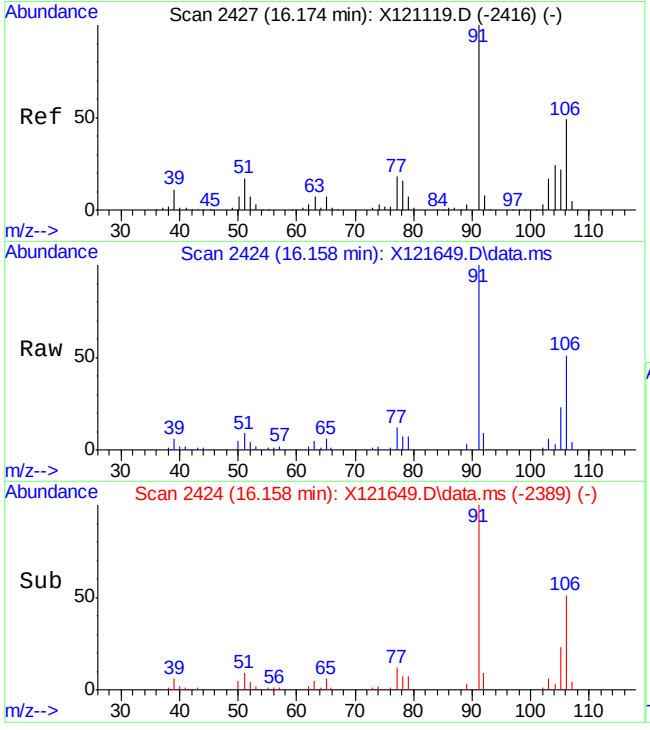


#104
m,p-xylene
Concen: 0.61 ug/L
RT: 15.609 min Scan# 2319
Delta R.T. -0.025 min
Lab File: X121649.D
Acq: 12 Dec 2011 3:17 pm

Tgt Ion:106 Resp: 2384

Ion	Ratio	Lower	Upper
106	100		
91	179.9	159.8	219.8

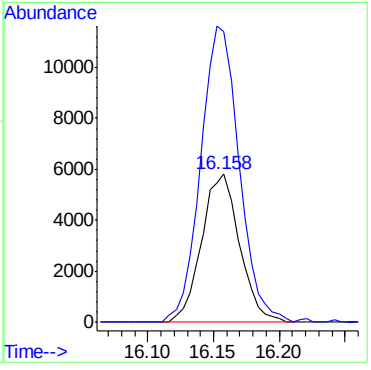




#105
o-xylene
Concen: 2.95 ug/L
RT: 16.158 min Scan# 2424
Delta R.T. -0.015 min
Lab File: X121649.D
Acq: 12 Dec 2011 3:17 pm

Tgt Ion:106 Resp: 11588

Ion	Ratio	Lower	Upper
106	100		
91	196.4	172.3	232.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121567.D
Acq On : 9 Dec 2011 8:16 pm
Operator : tamikag
Sample : JA93968-4
Misc : MS22716,VX5174,5.0,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 12 13:38:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

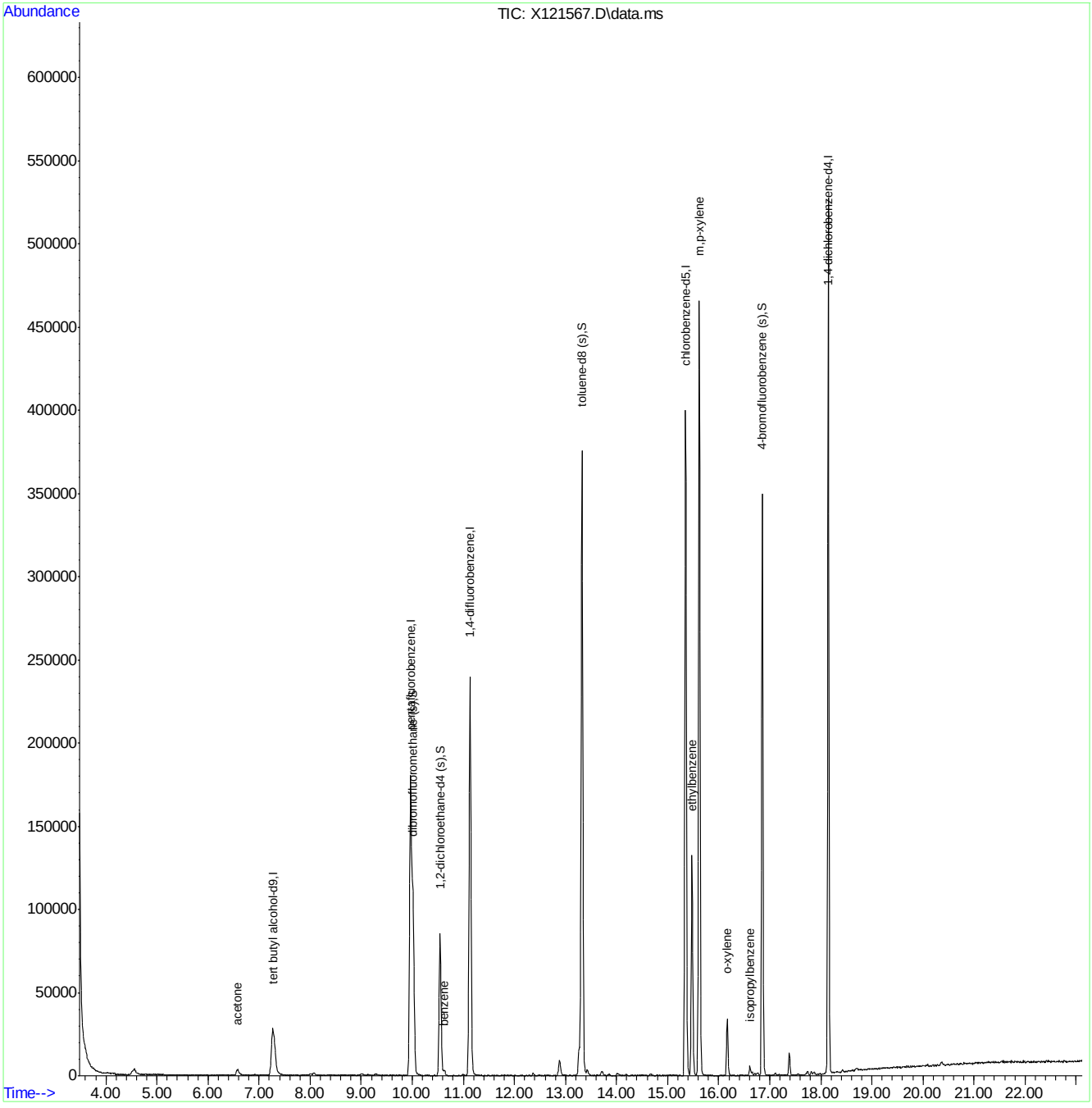
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.272	65	78438	500.00	ug/L	-0.02
5) pentafluorobenzene	9.971	168	206676	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.132	114	295926	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.353	117	292654	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.146	152	150753	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.013	113	92032	55.16	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.32%			
55) 1,2-dichloroethane-d4 (s)	10.546	65	83183	49.65	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 99.30%			
85) toluene-d8 (s)	13.323	98	346744	56.58	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 113.16%			
110) 4-bromofluorobenzene (s)	16.854	95	131575	49.56	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.12%			
Target Compounds						Qvalue
29) acetone	6.571	58	2686	23.68	ug/L #	83
69) benzene	10.630	78	3778	0.56	ug/L	92
103) ethylbenzene	15.478	91	123657	14.50	ug/L	98
104) m,p-xylene	15.619	106	179367	53.28	ug/L	98
105) o-xylene	16.169	106	12347	3.64	ug/L	93
109) isopropylbenzene	16.613	105	5082	0.59	ug/L	95

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

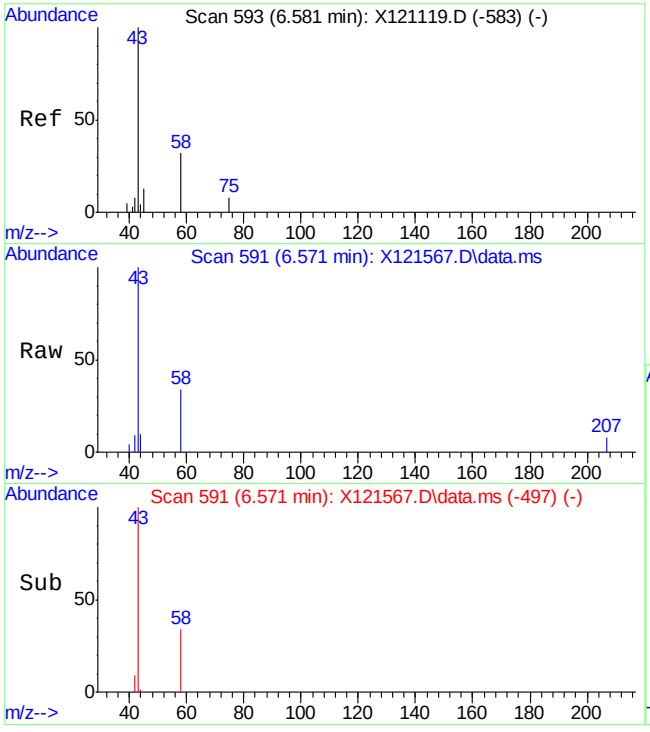
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121567.D
Acq On : 9 Dec 2011 8:16 pm
Operator : tamikag
Sample : JA93968-4
Misc : MS22716,VX5174,5.0,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 12 13:38:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



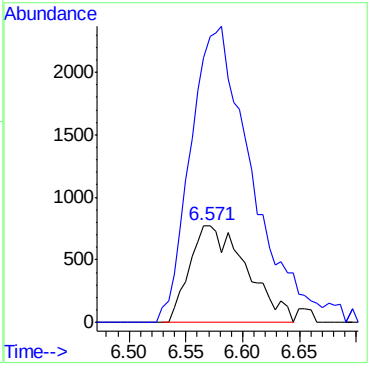
MX5154.M Mon Dec 12 13:44:59 2011 ACCNJ

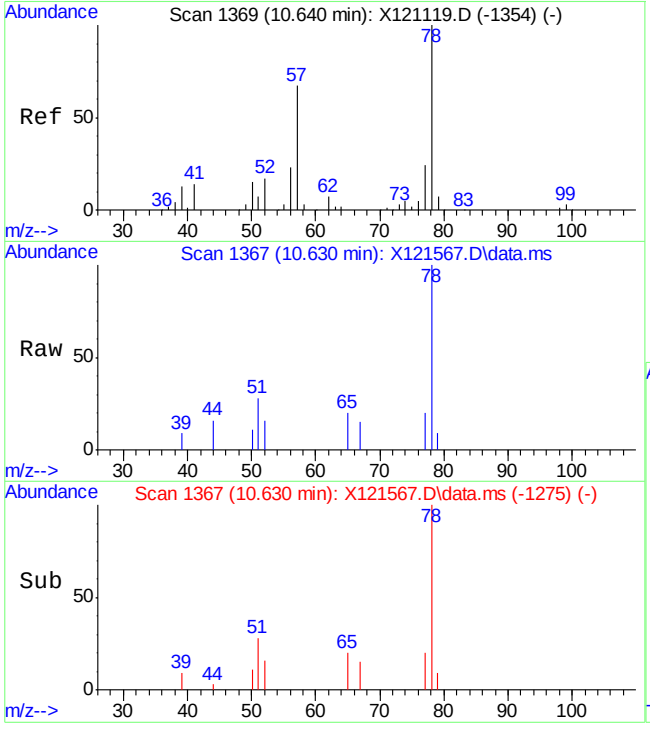


#29
acetone
Concen: 23.68 ug/L
RT: 6.571 min Scan# 591
Delta R.T. -0.010 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion: 58 Resp: 2686

Ion	Ratio	Lower	Upper
58	100		
43	294.5	300.3	360.3#

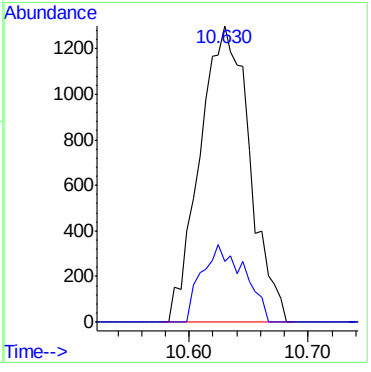


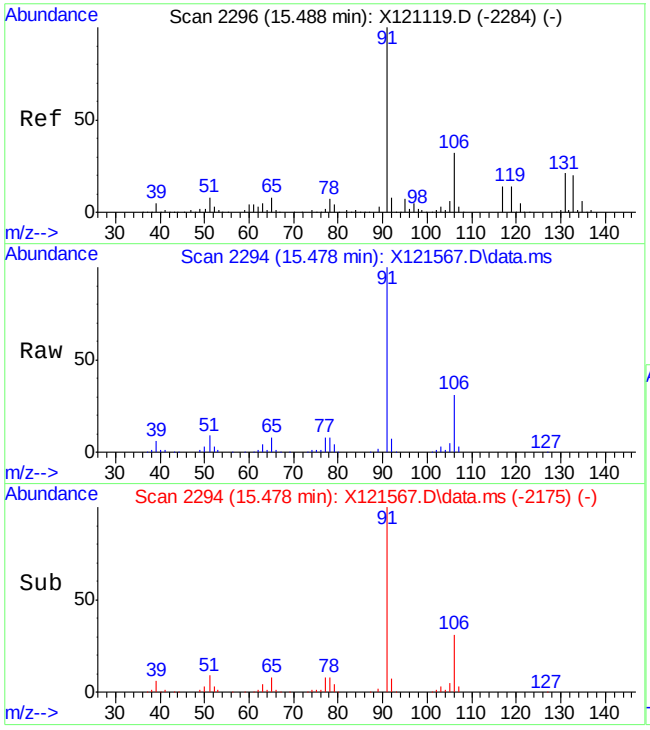


#69
benzene
Concen: 0.56 ug/L
RT: 10.630 min Scan# 1367
Delta R.T. -0.010 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion: 78 Resp: 3778

Ion	Ratio	Lower	Upper
78	100		
77	20.3	0.0	54.2

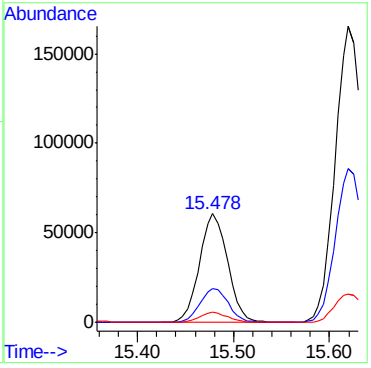


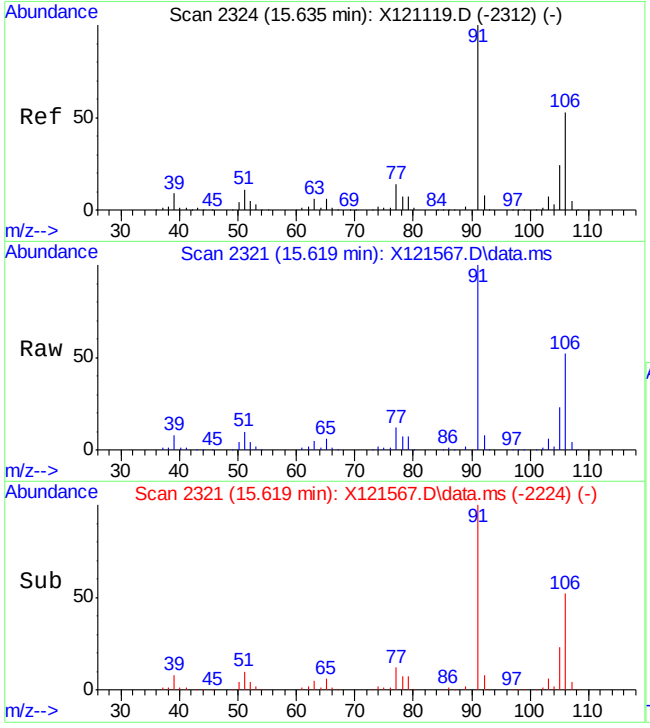


#103
ethylbenzene
Concen: 14.50 ug/L
RT: 15.478 min Scan# 2294
Delta R.T. -0.010 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion: 91 Resp: 123657

Ion	Ratio	Lower	Upper
91	100		
106	31.4	2.4	62.4
51	9.2	0.0	39.8

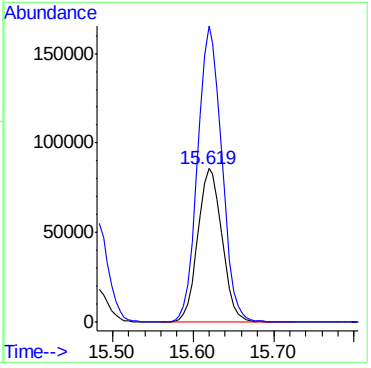


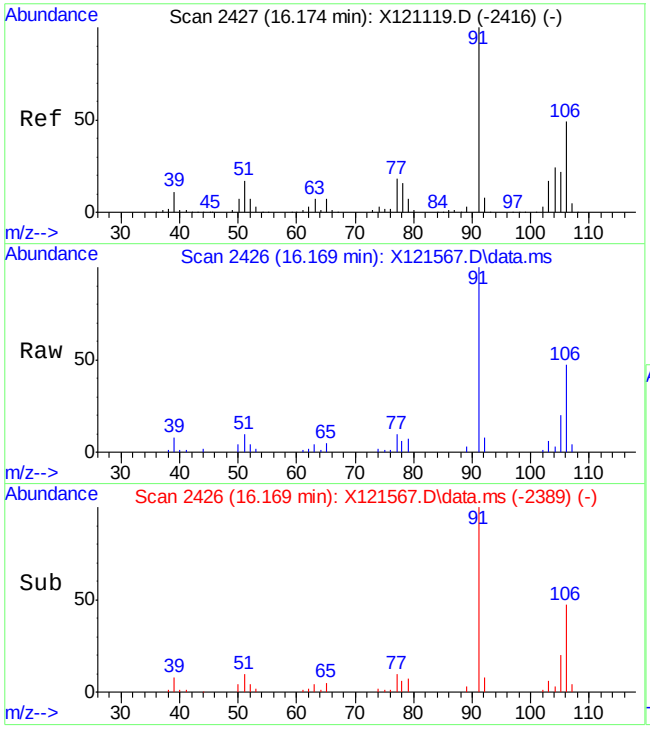


#104
m,p-xylene
Concen: 53.28 ug/L
RT: 15.619 min Scan# 2321
Delta R.T. -0.015 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion:106 Resp: 179367

Ion	Ratio	Lower	Upper
106	100		
91	193.1	159.8	219.8

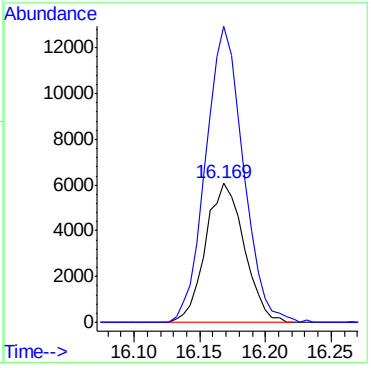


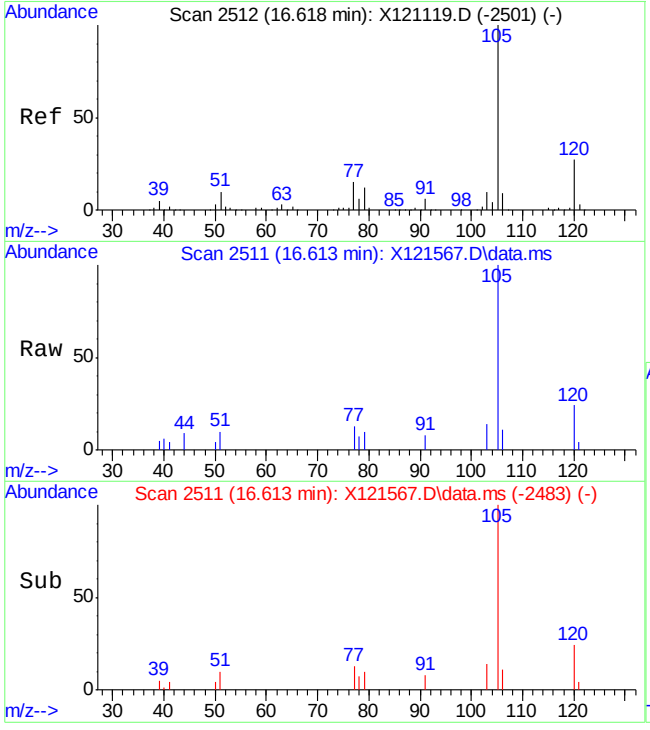


#105
o-xylene
Concen: 3.64 ug/L
RT: 16.169 min Scan# 2426
Delta R.T. -0.004 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion:106 Resp: 12347

Ion	Ratio	Lower	Upper
106	100		
91	212.4	172.3	232.3

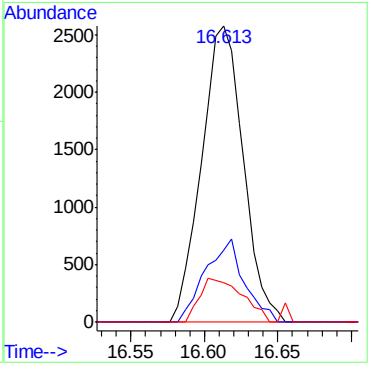




#109
isopropylbenzene
Concen: 0.59 ug/L
RT: 16.613 min Scan# 2511
Delta R.T. -0.005 min
Lab File: X121567.D
Acq: 9 Dec 2011 8:16 pm

Tgt Ion:105 Resp: 5082

Ion	Ratio	Lower	Upper
105	100		
120	24.1	0.0	57.0
77	13.3	0.0	44.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121568.D
Acq On : 9 Dec 2011 8:46 pm
Operator : tamikag
Sample : JA93968-5
Misc : MS22716,VX5174,5.9,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 12 13:39:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

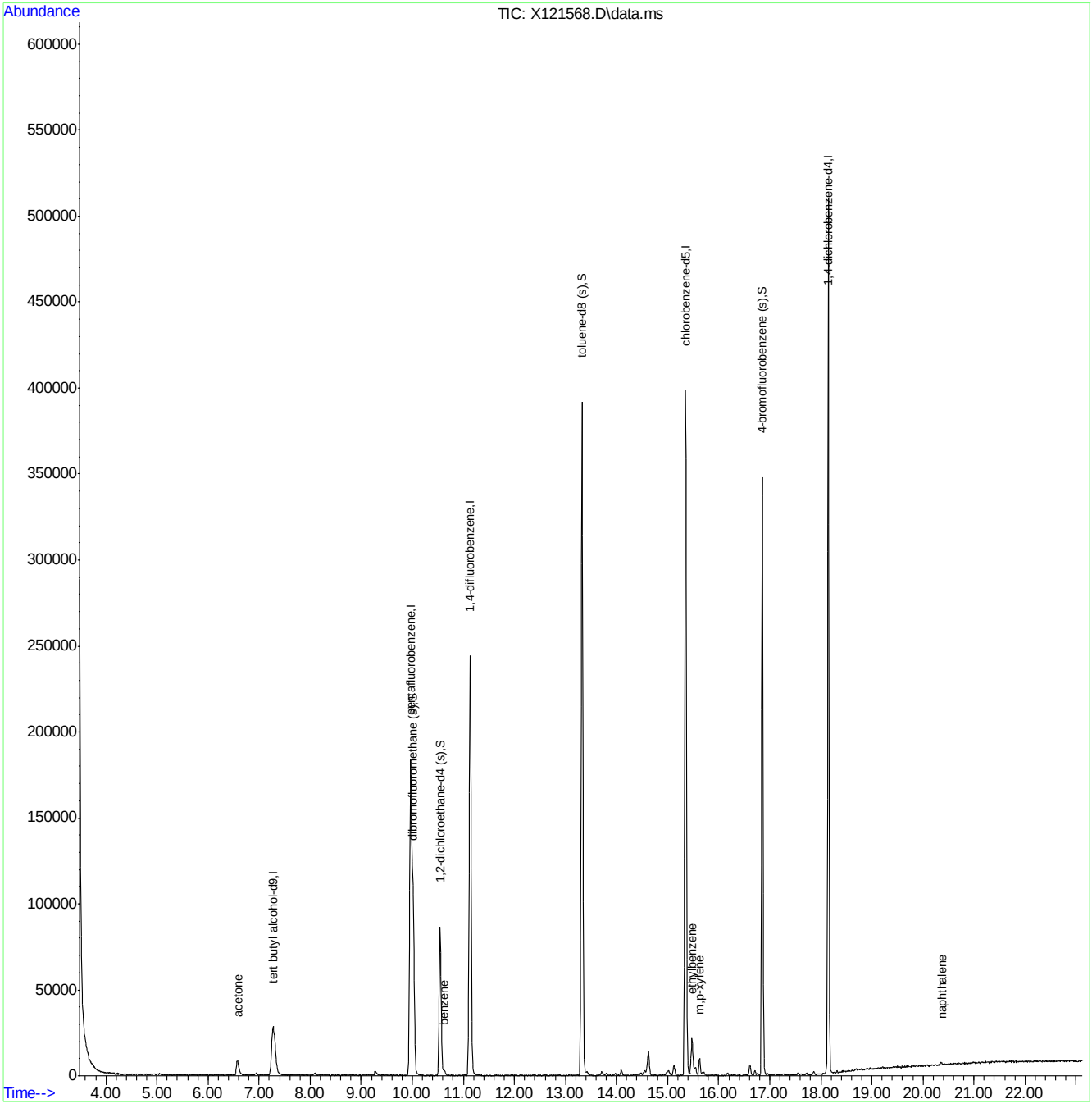
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.272	65	81512	500.00	ug/L	-0.02
5) pentafluorobenzene	9.971	168	212079	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.132	114	302879	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.352	117	294917	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.145	152	144112	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.018	113	94130	54.98	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 109.96%			
55) 1,2-dichloroethane-d4 (s)	10.546	65	84466	49.13	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 98.26%			
85) toluene-d8 (s)	13.323	98	355761	56.72	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 113.44%			
110) 4-bromofluorobenzene (s)	16.854	95	130988	51.61	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 103.22%			
Target Compounds						Qvalue
29) acetone	6.587	58	6232	53.54	ug/L	92
69) benzene	10.630	78	3918	0.56	ug/L	87
103) ethylbenzene	15.478	91	17025	1.98	ug/L	100
104) m,p-xylene	15.630	106	3688	1.09	ug/L	94
136) naphthalene	20.368	128	1077	0.20	ug/L	78

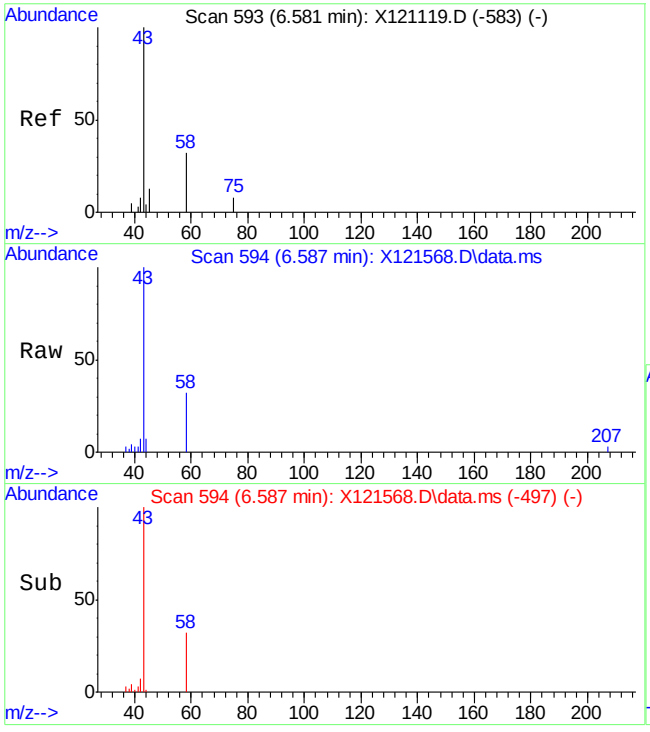
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121568.D
Acq On : 9 Dec 2011 8:46 pm
Operator : tamikag
Sample : JA93968-5
Misc : MS22716,VX5174,5.9,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 12 13:39:49 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

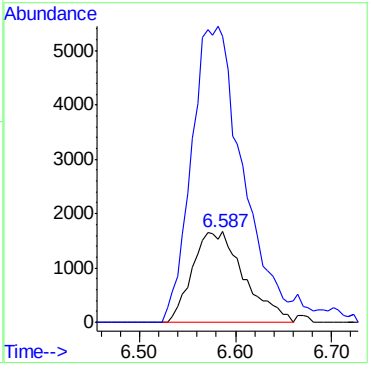


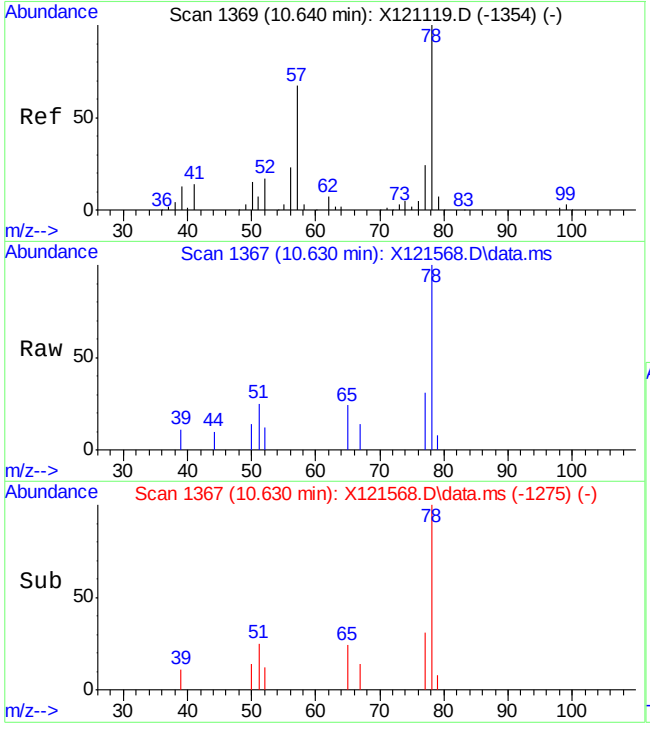


#29
acetone
Concen: 53.54 ug/L
RT: 6.587 min Scan# 594
Delta R.T. 0.006 min
Lab File: X121568.D
Acq: 9 Dec 2011 8:46 pm

Tgt Ion: 58 Resp: 6232

Ion	Ratio	Lower	Upper
58	100		
43	314.5	300.3	360.3

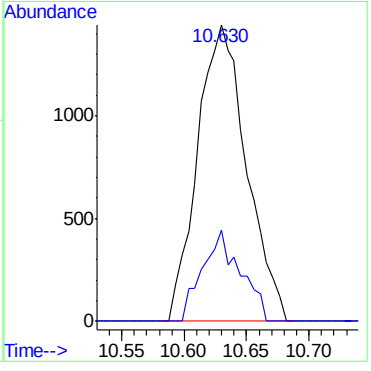


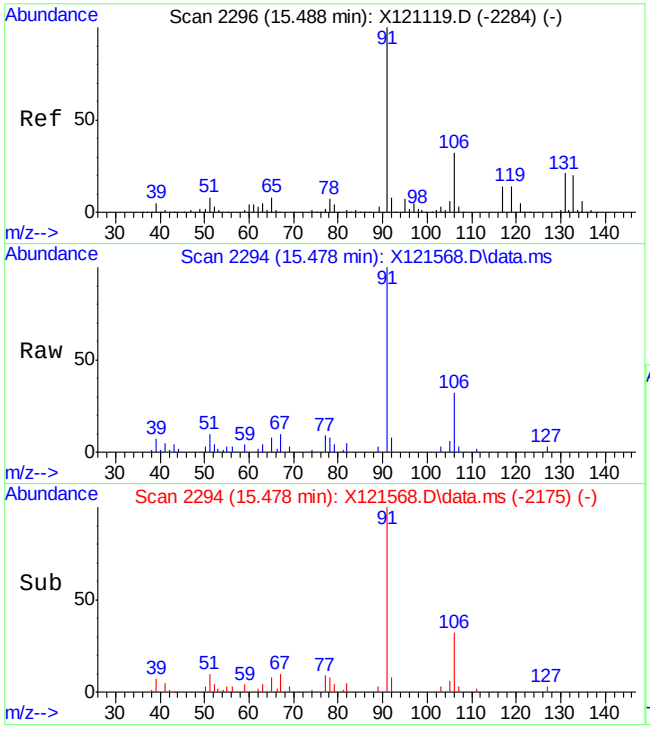


#69
benzene
Concen: 0.56 ug/L
RT: 10.630 min Scan# 1367
Delta R.T. -0.010 min
Lab File: X121568.D
Acq: 9 Dec 2011 8:46 pm

Tgt Ion: 78 Resp: 3918

Ion	Ratio	Lower	Upper
78	100		
77	30.6	0.0	54.2

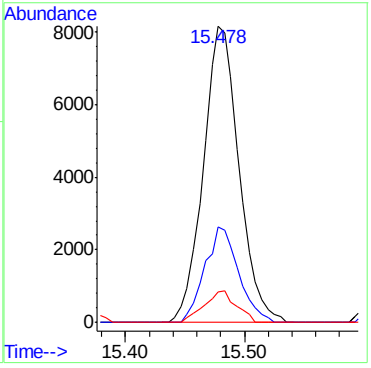


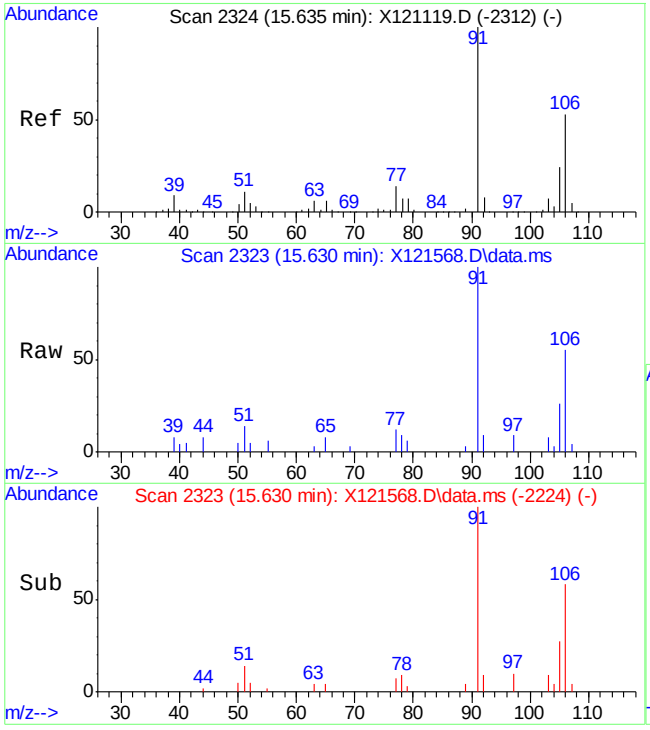


#103
ethylbenzene
Concen: 1.98 ug/L
RT: 15.478 min Scan# 2294
Delta R.T. -0.010 min
Lab File: X121568.D
Acq: 9 Dec 2011 8:46 pm

Tgt Ion: 91 Resp: 17025

Ion	Ratio	Lower	Upper
91	100		
106	32.3	2.4	62.4
51	10.3	0.0	39.8

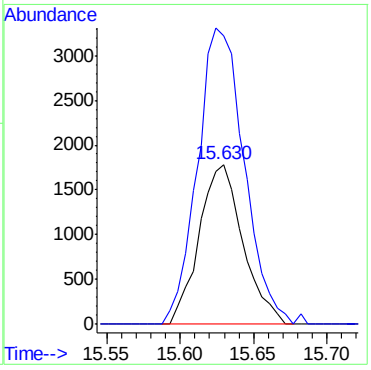


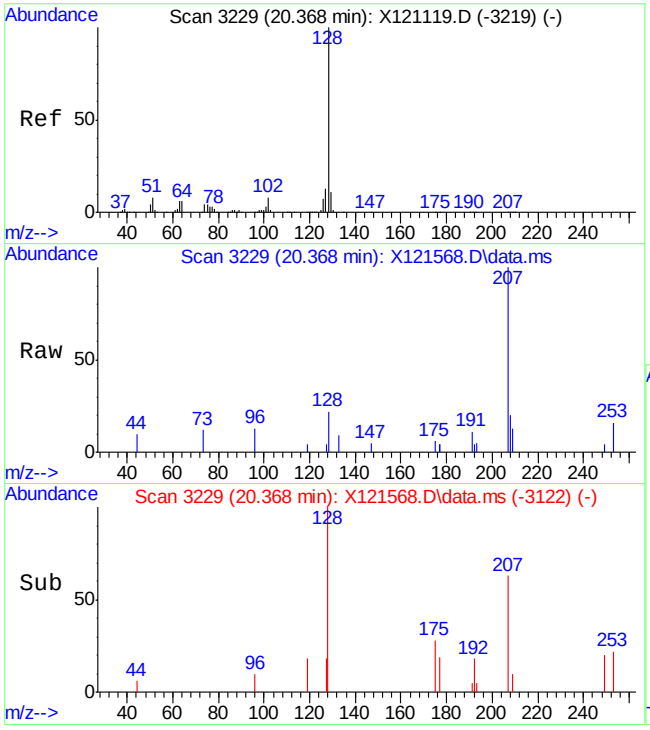


#104
m,p-xylene
Concen: 1.09 ug/L
RT: 15.630 min Scan# 2323
Delta R.T. -0.004 min
Lab File: X121568.D
Acq: 9 Dec 2011 8:46 pm

Tgt Ion:106 Resp: 3688

Ion	Ratio	Lower	Upper
106	100		
91	180.3	159.8	219.8

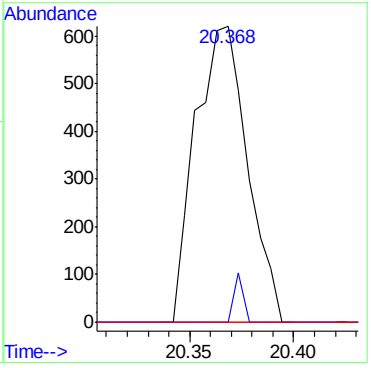




#136
naphthalene
Concen: 0.20 ug/L
RT: 20.368 min Scan# 3229
Delta R.T. 0.000 min
Lab File: X121568.D
Acq: 9 Dec 2011 8:46 pm

Tgt Ion:128 Resp: 1077

Ion	Ratio	Lower	Upper
128	100		
102	0.0	0.0	37.7
51	0.0	0.0	37.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121650.D
Acq On : 12 Dec 2011 3:46 pm
Operator : tamikag
Sample : JA93968-6
Misc : MS22716,VX5178,5.4,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 16:23:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

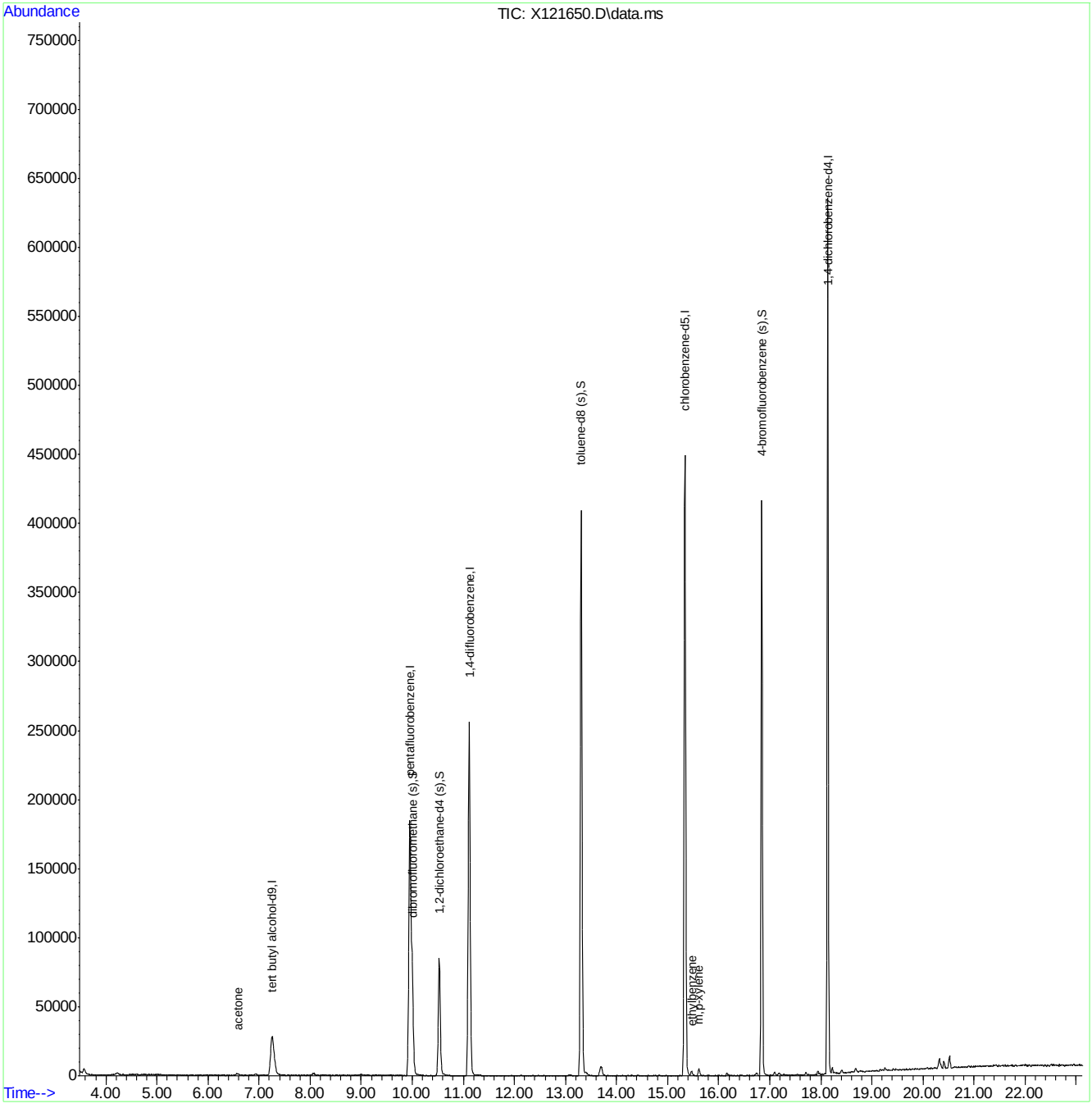
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.251	65	81971	500.00	ug/L	-0.04
5) pentafluorobenzene	9.950	168	217544	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.116	114	317784	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	336060	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	182028	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.002	113	67956	38.69	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 77.38%			
55) 1,2-dichloroethane-d4 (s)	10.525	65	82757	46.93	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 93.86%			
85) toluene-d8 (s)	13.307	98	379524	57.67	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 115.34%			
110) 4-bromofluorobenzene (s)	16.843	95	156659	48.87	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 97.74%			
Target Compounds						Qvalue
29) acetone	6.581	58	915	7.66	ug/L #	34
103) ethylbenzene	15.473	91	3315	0.34	ug/L	99
104) m,p-xylene	15.614	106	2274	0.59	ug/L	92

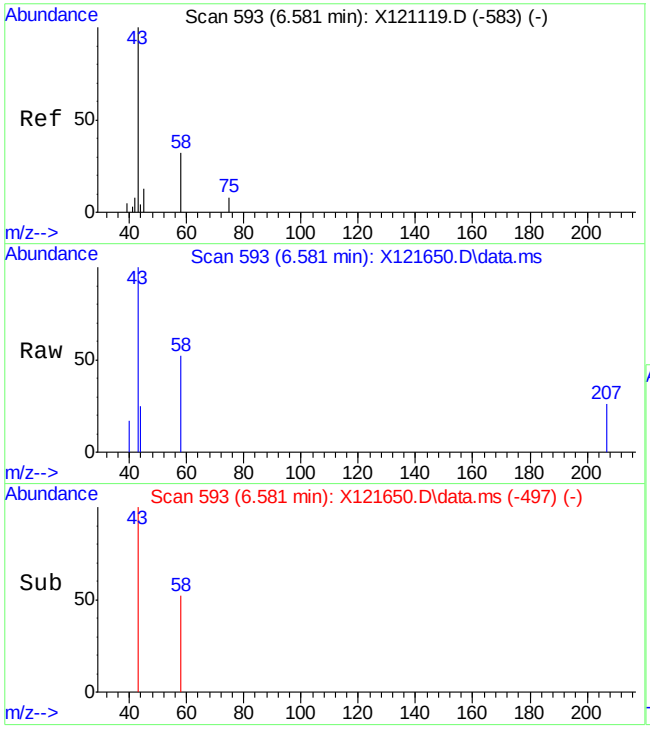
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121650.D
Acq On : 12 Dec 2011 3:46 pm
Operator : tamikag
Sample : JA93968-6
Misc : MS22716,VX5178,5.4,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 16:23:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

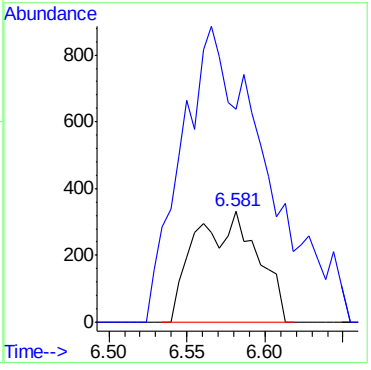


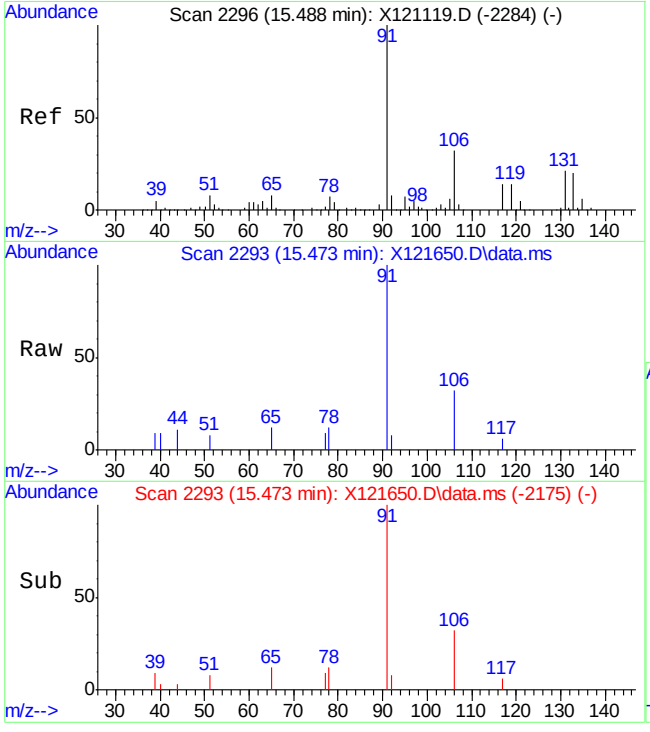


#29
acetone
Concen: 7.66 ug/L
RT: 6.581 min Scan# 593
Delta R.T. 0.000 min
Lab File: X121650.D
Acq: 12 Dec 2011 3:46 pm

Tgt Ion: 58 Resp: 915

Ion	Ratio	Lower	Upper
58	100		
43	191.9	300.3	360.3#

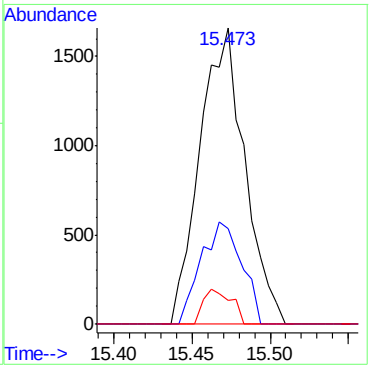


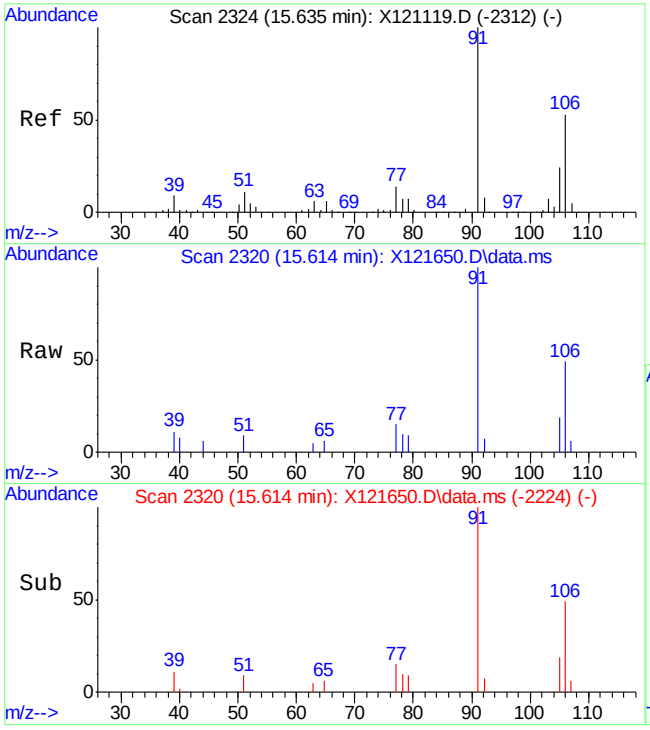


#103
ethylbenzene
Concen: 0.34 ug/L
RT: 15.473 min Scan# 2293
Delta R.T. -0.015 min
Lab File: X121650.D
Acq: 12 Dec 2011 3:46 pm

Tgt Ion: 91 Resp: 3315

Ion	Ratio	Lower	Upper
91	100		
106	32.2	2.4	62.4
51	8.0	0.0	39.8

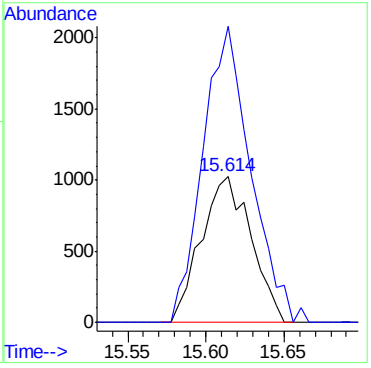




#104
m,p-xylene
Concen: 0.59 ug/L
RT: 15.614 min Scan# 2320
Delta R.T. -0.020 min
Lab File: X121650.D
Acq: 12 Dec 2011 3:46 pm

Tgt Ion:106 Resp: 2274

Ion	Ratio	Lower	Upper
106	100		
91	202.2	159.8	219.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121554.d
Acq On : 9 Dec 2011 1:32 pm
Operator : tamikag
Sample : MB
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 09 17:51:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.277	65	77085	500.00	ug/L	-0.01
5) pentafluorobenzene	9.971	168	201457	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.132	114	291334	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.352	117	292140	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.145	152	155375	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.012	113	91193	56.07	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 112.14%			
55) 1,2-dichloroethane-d4 (s)	10.541	65	82294	50.39	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 100.78%			
85) toluene-d8 (s)	13.323	98	343727	56.97	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 113.94%			
110) 4-bromofluorobenzene (s)	16.854	95	133009	48.61	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 97.22%			

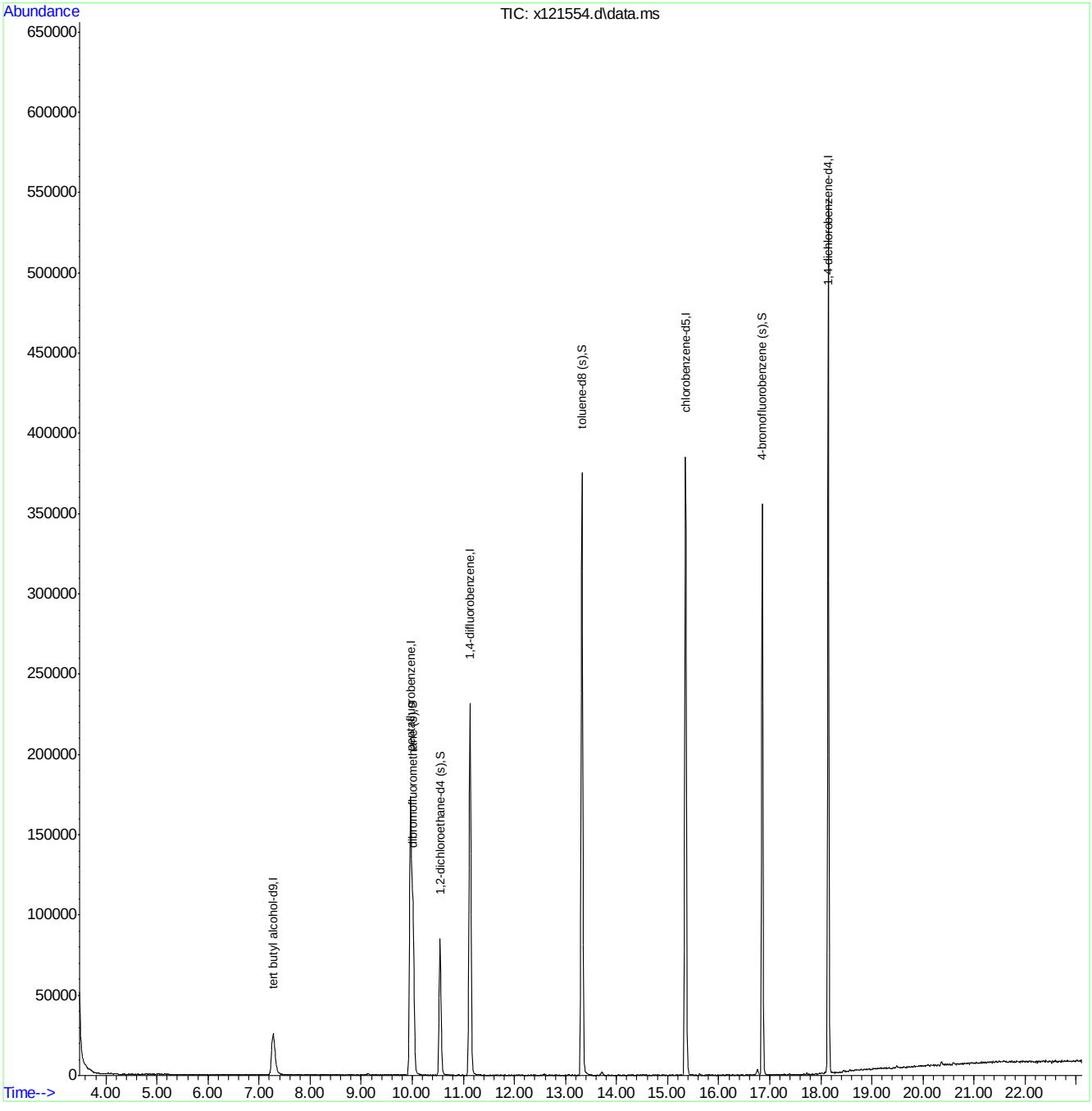
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121554.d
Acq On : 9 Dec 2011 1:32 pm
Operator : tamikag
Sample : MB
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 09 17:51:57 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



MX5154.M Fri Dec 09 17:54:34 2011 ACCNJ

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190176.D Vial: 53
Acq On : 10 Dec 2011 12:45 pm Operator: EmilyT
Sample : mb Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:16 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.53	65	149713	500.00 ug/L	0.03
4) pentafluorobenzene	9.75	168	262148	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.65	114	416454	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	433164	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	246011	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	128694	44.99 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 89.98%		
45) 1,2-dichloroethane-d4 (s)	10.17	65	156470	45.51 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 91.02%		
75) toluene-d8 (s)	12.37	98	538374	48.42 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 96.84%		
99) 4-bromofluorobenzene (s)	15.27	95	233007	41.67 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 83.34%		

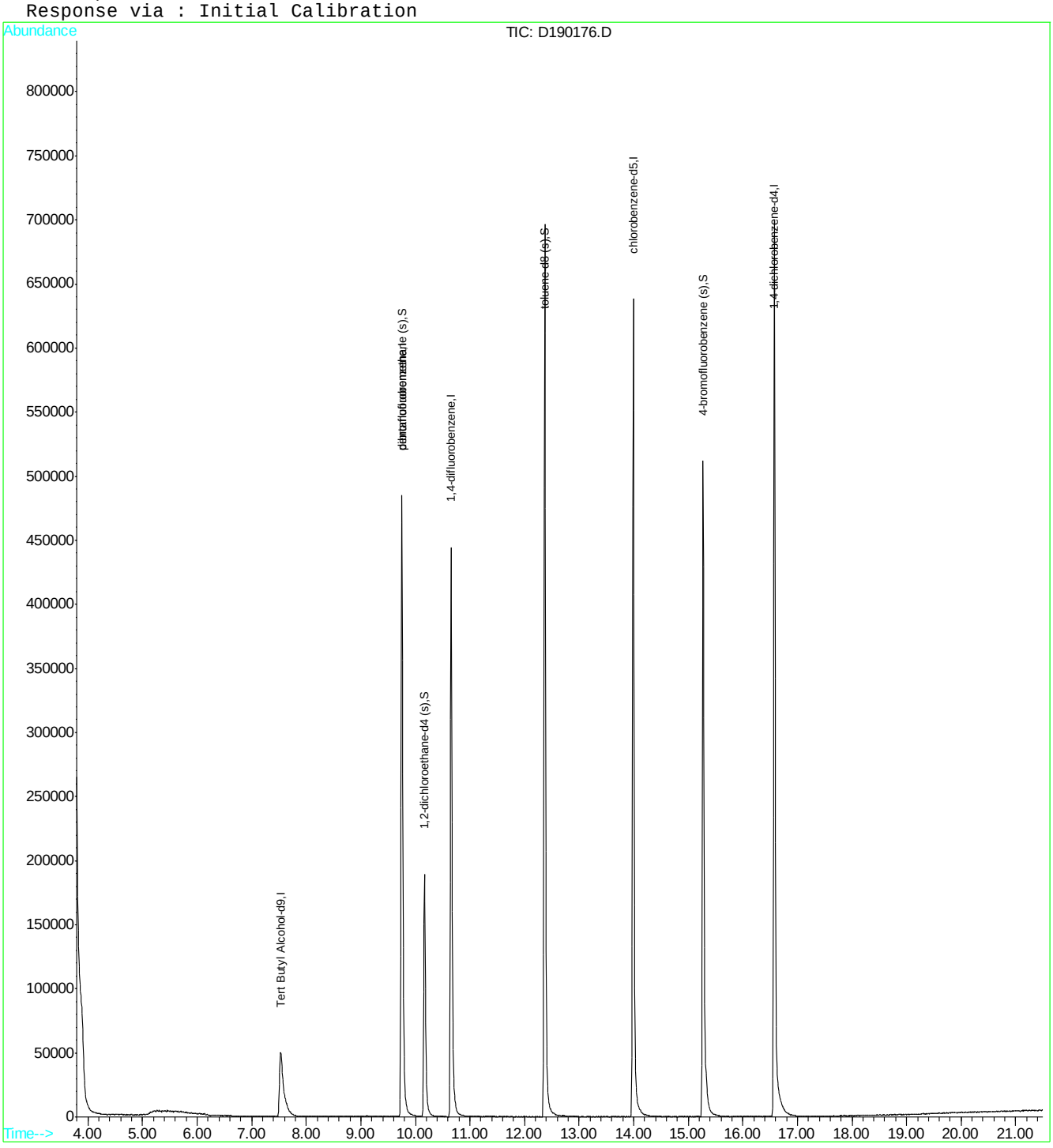
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
D190176.D MD7671.M Mon Dec 12 16:16:31 2011 RPT1 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190176.D Vial: 53
Acq On : 10 Dec 2011 12:45 pm Operator: EmilyT
Sample : mb Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:16 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



D190176.D MD7671.M Mon Dec 12 16:16:32 2011 RPT1 Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121646.D
Acq On : 12 Dec 2011 1:32 pm
Operator : tamikag
Sample : MB
Misc : MS22502,VX5178,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 16:21:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.256	65	78034	500.00	ug/L	-0.03
5) pentafluorobenzene	9.950	168	206787	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.111	114	302727	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	320294	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	169996	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	9.997	113	92488	55.40	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.80%			
55) 1,2-dichloroethane-d4 (s)	10.525	65	81203	48.44	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 96.88%			
85) toluene-d8 (s)	13.307	98	360961	57.58	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 115.16%			
110) 4-bromofluorobenzene (s)	16.838	95	146013	48.77	ug/L	-0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 97.54%			

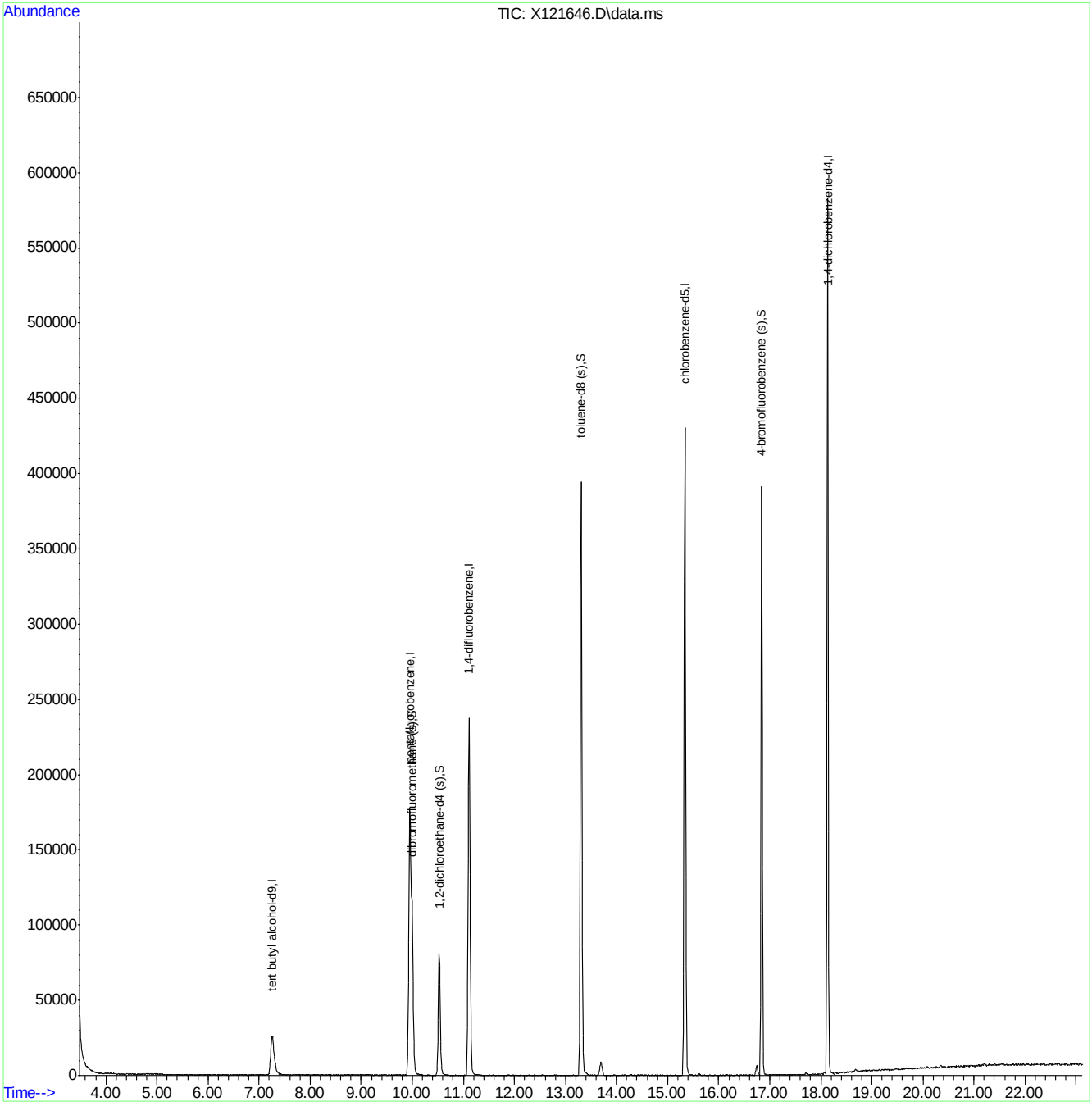
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121646.D
Acq On : 12 Dec 2011 1:32 pm
Operator : tamikag
Sample : MB
Misc : MS22502,VX5178,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 16:21:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



MX5154.M Mon Dec 12 16:26:00 2011 ACCNJ

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121555.d
Acq On : 9 Dec 2011 2:08 pm
Operator : tamikag
Sample : BS
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 17:51:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.267	65	69742	500.00	ug/L	-0.02
5) pentafluorobenzene	9.965	168	196137	50.00	ug/L	-0.01
62) 1,4-difluorobenzene	11.127	114	285416	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.347	117	289572	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.146	152	155913	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.013	113	87970	55.56	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 111.12%			
55) 1,2-dichloroethane-d4 (s)	10.541	65	78752	49.53	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 99.06%			
85) toluene-d8 (s)	13.318	98	335647	56.79	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 113.58%			
110) 4-bromofluorobenzene (s)	16.854	95	132704	48.33	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 96.66%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.403	59	43971	239.87	ug/L	90
4) 1,4-dioxane	12.078	88	21845	1259.33	ug/L #	94
11) chlorodifluoromethane	3.762	51	61825	39.98	ug/L	99
12) dichlorodifluoromethane	3.747	85	80976	34.92	ug/L	96
15) chloromethane	4.076	50	103701	37.86	ug/L	99
16) vinyl chloride	4.327	62	87543	39.79	ug/L	99
18) bromomethane	4.986	94	63248	46.21	ug/L	98
19) chloroethane	5.159	64	47523	42.51	ug/L	96
21) trichlorofluoromethane	5.645	101	109404	43.15	ug/L	96
22) pentane	5.708	43	96859	33.54	ug/L	99
23) ethyl ether	6.053	74	46239	51.58	ug/L	93
27) acrolein	6.330	56	110959	405.05	ug/L #	100
28) 1,1-dichloroethene	6.503	96	69643	51.05	ug/L	100
29) acetone	6.576	58	5665	52.62	ug/L #	64
30) allyl chloride	7.084	76	47865	49.32	ug/L	91
31) acetonitrile	7.052	40	62693	476.99	ug/L #	65
32) iodomethane	6.806	142	158452	52.55	ug/L	99
33) iso-butyl alcohol	10.342	43	35683	504.17	ug/L	95
34) carbon disulfide	6.937	76	248654	47.74	ug/L	98
35) methylene chloride	7.308	84	90181	51.90	ug/L	93
36) methyl acetate	7.073	43	52254	45.15	ug/L	98
37) methyl tert butyl ether	7.675	73	462824	109.73	ug/L	97
38) trans-1,2-dichloroethene	7.722	96	81627	51.96	ug/L	95
39) di-isopropyl ether	8.370	45	296087	45.32	ug/L	98
40) 2-butanone	9.259	72	8429	55.72	ug/L	96
41) 1,1-dichloroethane	8.391	63	156027	52.54	ug/L	99
42) chloroprene	8.517	53	112076	45.27	ug/L	97
43) acrylonitrile	7.680	53	125280	254.41	ug/L	99
44) vinyl acetate	8.381	86	14027	60.57	ug/L	54
45) ethyl tert-butyl ether	8.940	59	280299	51.62	ug/L	98
46) ethyl acetate	9.286	70	8301	55.14	ug/L	62
47) 2,2-dichloropropane	9.286	77	112716	48.84	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121555.d
Acq On : 9 Dec 2011 2:08 pm
Operator : tamikag
Sample : BS
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 17:51:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.296	96	97115	53.60	ug/L		92
49)	propionitrile	9.385	54	97752	507.32	ug/L		94
50)	tert-Butyl Formate	9.798	59	71502	56.57	ug/L	#	97
51)	bromochloromethane	9.678	128	49029	54.17	ug/L		91
52)	tetrahydrofuran	9.725	42	24857	46.57	ug/L		95
53)	chloroform	9.761	83	157424	54.38	ug/L		98
56)	freon 113	6.487	151	61122	51.13	ug/L		97
57)	methacrylonitrile	9.610	41	43416	48.78	ug/L		95
58)	1,1,1-trichloroethane	10.065	97	122425	53.62	ug/L		96
59)	cyclohexane	10.143	84	100671	44.50	ug/L		80
61)	iso-octane	10.635	57	265145	41.65	ug/L		99
64)	epichlorohydrin	12.659	57	24375	199.80	ug/L		96
65)	n-butyl alcohol	11.325	56	116297	2638.78	ug/L		98
66)	carbon tetrachloride	10.321	117	113133	51.62	ug/L		99
67)	1,1-dichloropropene	10.290	75	110684	49.84	ug/L		98
68)	hexane	8.067	57	91830	38.55	ug/L		96
69)	benzene	10.624	78	337039	51.51	ug/L		98
70)	tert-amyl methyl ether	10.682	73	256654	52.14	ug/L		97
71)	heptane	10.865	57	56697	40.47	ug/L		95
72)	isopropyl acetate	10.562	43	164410	51.27	ug/L		98
73)	1,2-dichloroethane	10.656	62	103197	51.98	ug/L		100
74)	trichloroethene	11.561	130	97149	54.99	ug/L		99
77)	2-nitropropane	12.617	46	984	39.88	ug/L	#	26
78)	2-chloroethyl vinyl ether	12.664	63	125031	201.04	ug/L		99
79)	methyl methacrylate	11.958	69	50120	50.89	ug/L	#	80
80)	1,2-dichloropropane	11.916	63	93274	50.74	ug/L		97
81)	dibromomethane	12.131	93	53932	53.23	ug/L		96
82)	methylcyclohexane	11.843	83	122904	45.46	ug/L		96
83)	bromodichloromethane	12.319	83	124357	55.23	ug/L		100
84)	cis-1,3-dichloropropene	12.936	75	150623	52.39	ug/L		96
86)	4-methyl-2-pentanone	13.088	58	30737	52.98	ug/L		89
87)	toluene	13.417	92	219490	52.51	ug/L		98
88)	3-methyl-1-butanol	13.140	55	72415	1119.90	ug/L		96
89)	trans-1,3-dichloropropene	13.710	75	135160	53.64	ug/L		100
90)	ethyl methacrylate	13.726	69	101703	54.13	ug/L		94
91)	1,1,2-trichloroethane	13.998	83	64187	52.74	ug/L		96
92)	2-hexanone	14.249	58	28012	51.46	ug/L		97
94)	3,3-Dimethyl-1-butanol	14.500	57	74510	495.50	ug/L		98
95)	tetrachloroethene	14.202	164	84750	47.50	ug/L		99
96)	1,3-dichloropropane	14.239	76	124153	46.82	ug/L		97
97)	butyl acetate	14.364	56	52381	46.81	ug/L		92
98)	dibromochloromethane	14.584	129	104229	51.65	ug/L		98
99)	1,2-dibromoethane	14.767	107	80713	50.90	ug/L		98
101)	chlorobenzene	15.389	112	259337	49.85	ug/L		99
102)	1,1,1,2-tetrachloroethane	15.478	131	99653	51.53	ug/L		98
103)	ethylbenzene	15.478	91	409235	48.49	ug/L		99
104)	m,p-xylene	15.625	106	324340	97.36	ug/L		99
105)	o-xylene	16.169	106	167635	49.95	ug/L		98
106)	styrene	16.184	104	277555	48.28	ug/L		96
107)	bromoform	16.514	173	75211	51.07	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121555.d
Acq On : 9 Dec 2011 2:08 pm
Operator : tamikag
Sample : BS
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 17:51:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

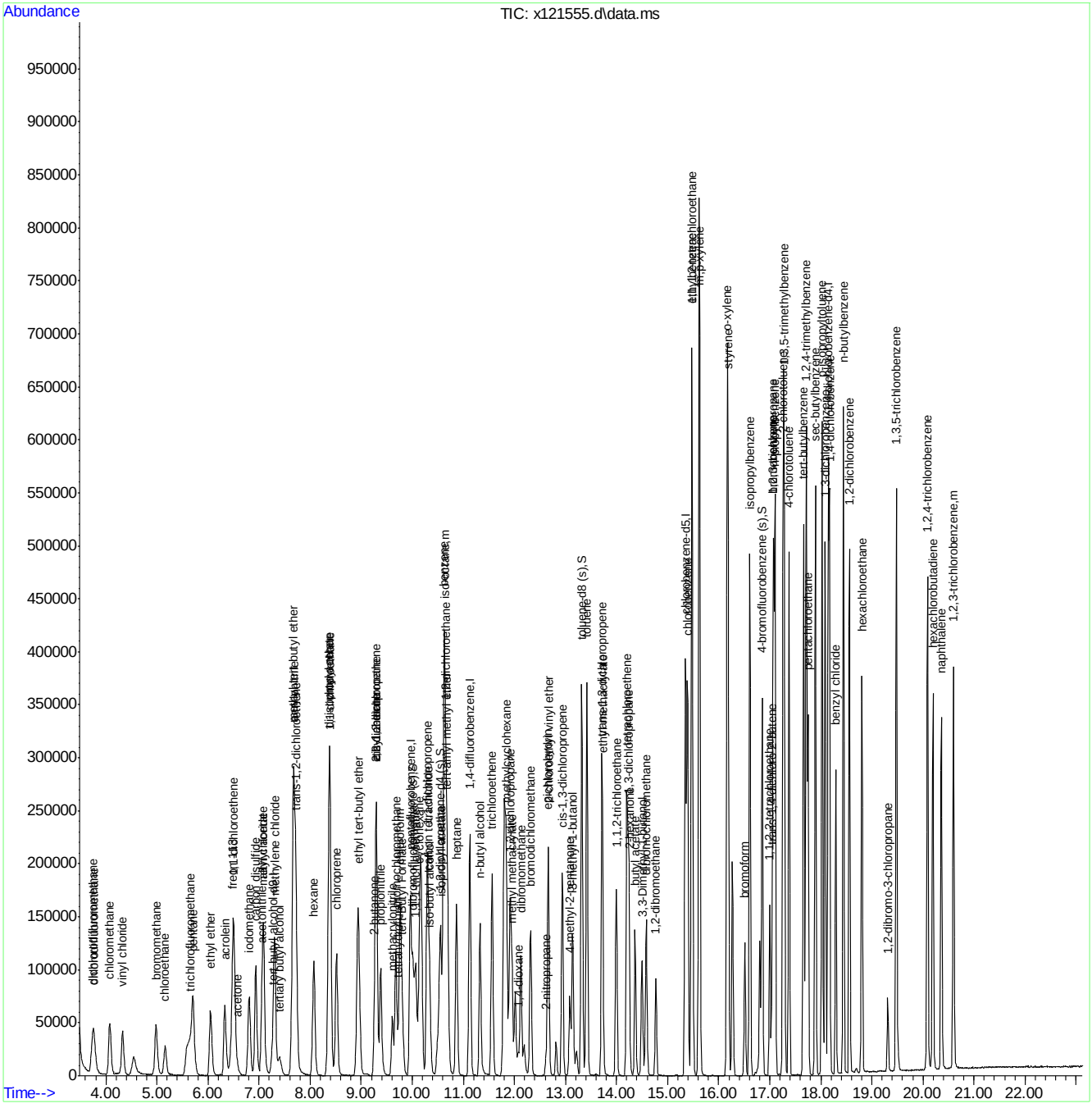
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.608	105	410492	45.90 ug/L	99
111) bromobenzene	17.073	156	121210	48.55 ug/L	93
112) 1,1,2,2-tetrachloroethane	17.000	83	97073	44.68 ug/L	98
113) trans-1,4-dichloro-2-b...	17.047	53	24303	45.51 ug/L	90
114) 1,2,3-trichloropropane	17.073	110	25252	46.93 ug/L	96
115) n-propylbenzene	17.105	91	479288	45.56 ug/L	99
117) 2-chlorotoluene	17.262	126	108474	46.12 ug/L	95
118) 4-chlorotoluene	17.377	91	306930	45.99 ug/L	97
119) 1,3,5-trimethylbenzene	17.283	105	341787	45.96 ug/L	100
120) tert-butylbenzene	17.664	119	305165	45.82 ug/L	99
121) pentachloroethane	17.748	167	81155	47.82 ug/L	98
122) 1,2,4-trimethylbenzene	17.717	105	360710	47.46 ug/L	99
124) sec-butylbenzene	17.895	105	445782	45.02 ug/L	99
125) 1,3-dichlorobenzene	18.083	146	227695	47.95 ug/L	99
126) p-isopropyltoluene	18.025	119	400166	48.27 ug/L	99
127) 1,4-dichlorobenzene	18.172	146	227940	47.13 ug/L	99
128) 1,2-dichlorobenzene	18.559	146	218418	48.22 ug/L	99
129) benzyl chloride	18.292	91	212948	52.10 ug/L	100
131) n-butylbenzene	18.444	92	205869	46.62 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.312	75	16915	43.81 ug/L	87
134) 1,3,5-trichlorobenzene	19.479	180	200483	47.91 ug/L	99
135) hexachlorobutadiene	20.196	225	97153	46.34 ug/L	99
136) naphthalene	20.358	128	293398	50.90 ug/L	99
137) 1,2,4-trichlorobenzene	20.091	180	177427	52.71 ug/L	98
138) 1,2,3-trichlorobenzene	20.599	180	149769	50.35 ug/L	100
139) hexachloroethane	18.805	201	82373	49.08 ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : x121555.d
Acq On : 9 Dec 2011 2:08 pm
Operator : tamikag
Sample : BS
Misc : MS22413,VX5174,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 17:51:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



ACCUTEST LABORATORIES JA93968

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190179.D Vial: 56
Acq On : 10 Dec 2011 2:46 pm Operator: EmilyT
Sample : bs Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:25 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.51	65	158300	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	263694	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.65	114	429589	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	446507	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.57	152	262348	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	133053	46.24 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 92.48%		
45) 1,2-dichloroethane-d4 (s)	10.17	65	155673	45.02 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 90.04%		
75) toluene-d8 (s)	12.37	98	563384	49.12 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 98.24%		
99) 4-bromofluorobenzene (s)	15.27	95	245098	41.10 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 82.20%		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.37	88	52591	1420.23 ug/L #	97
3) tertiary butyl alcohol	7.62	59	99668	242.26 ug/L	97
6) chlorodifluoromethane	4.25	51	135996	39.61 ug/L	98
7) dichlorodifluoromethane	4.25	85	152830	39.11 ug/L	99
8) chloromethane	4.56	50	226840	54.48 ug/L	99
9) vinyl chloride	4.82	62	232488	57.48 ug/L	99
10) bromomethane	5.45	94	141748	55.05 ug/L	97
11) chloroethane	5.63	64	143695	61.05 ug/L	98
13) trichlorofluoromethane	6.14	101	250909	53.63 ug/L	98
14) pentane	6.23	43	289309	44.48 ug/L	98
15) ethyl ether	6.51	74	101269	51.01 ug/L	97
16) acrolein	6.67	56	428343	580.31 ug/L	99
18) 1,1-dichloroethene	6.92	96	157597	50.28 ug/L	99
19) acetone	6.90	58	16783	49.80 ug/L	99
20) allyl chloride	7.40	41	326994	49.11 ug/L	97
21) acetonitrile	7.25	40	122191	618.24 ug/L	99
23) iodomethane	7.16	142	274211	52.30 ug/L	99
24) iso-butyl alcohol	9.97	74	8655	512.22 ug/L	97
25) carbon disulfide	7.32	76	533287	52.30 ug/L	100
26) methylene chloride	7.56	84	183765	50.86 ug/L	98
27) methyl acetate	7.38	43	120174	42.95 ug/L	99
28) methyl tert butyl ether	7.96	73	1030969	100.23 ug/L	98
29) trans-1,2-dichloroethene	7.97	96	166804	50.35 ug/L	97
30) di-isopropyl ether	8.56	45	549818	51.48 ug/L	98
31) ethyl tert-butyl ether	9.02	59	547151	53.14 ug/L	99
32) 2-butanone	9.16	72	20585	49.18 ug/L	98
33) 1,1-dichloroethane	8.49	63	302441	51.97 ug/L	99
34) chloroprene	8.64	53	242263	50.39 ug/L	97
35) acrylonitrile	7.81	53	339606	255.36 ug/L	99
36) vinyl acetate	8.49	86	34659	46.53 ug/L	96
37) ethyl acetate	9.22	45	20529	49.63 ug/L	83
38) 2,2-dichloropropane	9.25	77	225191	45.38 ug/L	99
39) cis-1,2-dichloroethene	9.21	96	177626	49.76 ug/L	98

(#) = qualifier out of range (m) = manual integration
D190179.D MD7671.M Mon Dec 12 16:26:01 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190179.D Vial: 56
Acq On : 10 Dec 2011 2:46 pm Operator: EmilyT
Sample : bs Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:25 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.18	54	262584	510.18 ug/L	99
41) bromochloromethane	9.50	128	84754	49.91 ug/L	99
42) tetrahydrofuran	9.58	72	23710	48.64 ug/L	88
43) chloroform	9.56	83	271948	50.84 ug/L	99
46) freon 113	6.93	151	126632	51.43 ug/L	98
47) methacrylonitrile	9.41	41	102437	52.56 ug/L	96
48) t-butyl formate	9.64	59	149352	50.53 ug/L	95
49) 1,1,1-trichloroethane	9.87	97	244129	50.83 ug/L	99
50) tert-amyl methyl ether	10.38	73	528010	53.03 ug/L	99
52) cyclohexane	10.01	84	267532	52.22 ug/L #	100
53) tert amyl alcohol	10.12	55	87014	570.14 ug/L	81
54) 2,2,4-trimethylpentane	10.40	57	662138	51.16 ug/L	99
55) epichlorohydrin	11.87	57	95115	246.79 ug/L	98
56) n-butyl alcohol	10.72	56	277399	2676.09 ug/L	99
57) carbon tetrachloride	10.11	117	210166	49.93 ug/L	97
58) 1,1-dichloropropene	10.06	75	219884	48.82 ug/L	99
59) hexane	8.35	57	199636	43.49 ug/L	99
60) benzene	10.30	78	661205	50.31 ug/L	99
61) heptane	10.57	57	119790	47.87 ug/L	98
62) isopropyl acetate	10.22	43	304695	48.55 ug/L	100
63) 1,2-dichloroethane	10.26	62	214630	48.59 ug/L	99
64) Ethyl Acrylate	11.00	55	235458	55.50 ug/L	98
65) trichloroethene	11.02	95	163853	48.64 ug/L	98
66) 2-nitropropane	11.71	43	49436	45.60 ug/L	99
67) 2-chloroethyl vinyl ether	11.78	63	580949	271.02 ug/L	98
68) methyl methacrylate	11.28	100	49331	49.06 ug/L	100
69) tert-amyl ethyl ether	11.24	87	545339	114.76 ug/L	98
70) 1,2-dichloropropane	11.25	63	181176	52.38 ug/L	96
71) methylcyclohexane	11.31	83	303420	52.37 ug/L	98
72) dibromomethane	11.39	93	104101	50.47 ug/L	98
73) bromodichloromethane	11.52	83	218780	51.13 ug/L	99
74) cis-1,3-dichloropropene	12.02	75	275651	50.65 ug/L	99
76) 4-methyl-2-pentanone	12.12	58	76823	52.33 ug/L	96
77) toluene	12.45	92	428164	52.08 ug/L	99
78) 3-methyl-1-butanol	12.12	70	112967	1129.21 ug/L	97
79) trans-1,3-dichloropropene	12.59	75	262882	50.36 ug/L	98
80) ethyl methacrylate	12.64	69	242118	51.57 ug/L	99
81) 1,1,2-trichloroethane	12.82	83	130886	50.60 ug/L	99
82) 2-hexanone	13.04	58	66769	47.38 ug/L	96
84) tetrachloroethene	13.10	166	190016	48.01 ug/L	95
85) 1,3-dichloropropane	13.02	76	272611	47.37 ug/L	100
86) butyl acetate	13.15	56	115907	44.14 ug/L	97
87) 3,3-dimethyl-1-butanol	13.21	57	200936	503.03 ug/L	98
88) dibromochloromethane	13.31	129	176354	45.40 ug/L	99
89) 1,2-dibromoethane	13.48	107	162912	47.81 ug/L	100
90) chlorobenzene	14.02	112	473864	47.26 ug/L	99
91) 1,1,1,2-tetrachloroethane	14.08	131	167023	45.67 ug/L	98
92) ethylbenzene	14.11	91	824135	47.93 ug/L	100
93) m,p-xylene	14.23	106	648821	94.91 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190179.D Vial: 56
Acq On : 10 Dec 2011 2:46 pm Operator: EmilyT
Sample : bs Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:25 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

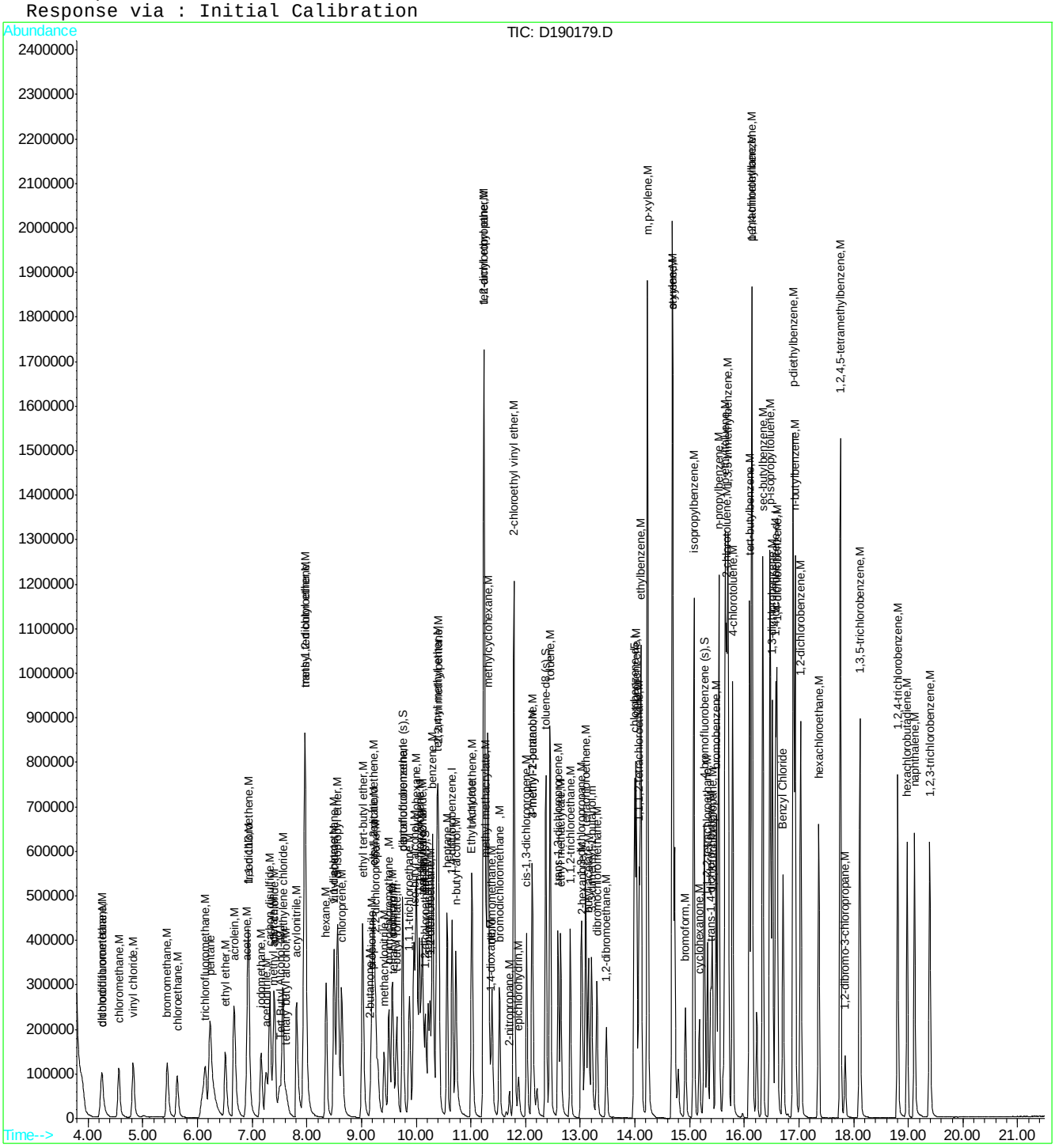
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
94)	o-xylene	14.69	106	324765	47.83 ug/L		100
95)	styrene	14.69	104	554661	47.29 ug/L		99
96)	bromoform	14.93	173	133704	43.16 ug/L		98
98)	isopropylbenzene	15.08	105	841105	45.11 ug/L		99
100)	bromobenzene	15.49	156	224113	46.68 ug/L		97
101)	cyclohexanone	15.18	55	111410	258.31 ug/L		97
102)	1,1,2,2-tetrachloroethane	15.32	83	223918	43.46 ug/L		98
103)	trans-1,4-dichloro-2-buten	15.38	53	67093	45.37 ug/L		98
104)	1,2,3-trichloropropane	15.41	110	64360	44.43 ug/L		94
105)	n-propylbenzene	15.53	91	1023045	47.02 ug/L		100
106)	p-ethyltoluene	15.65	105	961254	56.42 ug/L		99
107)	2-chlorotoluene	15.68	126	203426	45.04 ug/L		100
108)	4-chlorotoluene	15.79	91	643413	44.95 ug/L		99
109)	1,3,5-trimethylbenzene	15.71	105	729781	43.69 ug/L		100
110)	tert-butylbenzene	16.09	119	619975	42.58 ug/L		99
111)	pentachloroethane	16.15	167	141742	45.54 ug/L		98
112)	1,2,4-trimethylbenzene	16.14	105	762708	45.83 ug/L		99
113)	sec-butylbenzene	16.34	105	944163	44.89 ug/L		100
114)	1,3-dichlorobenzene	16.51	146	430983	47.03 ug/L		99
115)	p-isopropyltoluene	16.48	119	813319	47.21 ug/L		99
116)	1,4-dichlorobenzene	16.60	146	451846	44.89 ug/L		99
117)	Benzyl Chloride	16.71	91	455067	44.05 ug/L		99
118)	p-diethylbenzene	16.89	119	571511	54.46 ug/L		97
119)	1,2-dichlorobenzene	17.03	146	421924	45.75 ug/L		99
120)	n-butylbenzene	16.93	92	446964	45.78 ug/L		99
121)	1,2,4,5-tetramethylbenzene	17.76	119	865248	53.01 ug/L		100
122)	1,2-dibromo-3-chloropropan	17.84	75	41112	47.60 ug/L		97
123)	1,3,5-trichlorobenzene	18.11	180	338347	46.04 ug/L		98
124)	1,2,4-trichlorobenzene	18.81	180	304672	48.31 ug/L		100
125)	hexachlorobutadiene	18.98	225	160036	45.35 ug/L	#	70
126)	naphthalene	19.11	128	640753	54.85 ug/L		100
127)	1,2,3-trichlorobenzene	19.39	180	250753	55.24 ug/L		100
128)	hexachloroethane	17.36	119	141797	45.89 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190179.D Vial: 56
Acq On : 10 Dec 2011 2:46 pm Operator: EmilyT
Sample : bs Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:25 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



ACCUTEST LABORATORIES JA93968

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121647.D
Acq On : 12 Dec 2011 2:13 pm
Operator : tamikag
Sample : BS
Misc : MS22502,VX5178,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 16:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.256	65	77112	500.00	ug/L	-0.03
5) pentafluorobenzene	9.950	168	203123	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.111	114	304107	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	326146	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	177574	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	9.997	113	93975	57.31	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 114.62%			
55) 1,2-dichloroethane-d4 (s)	10.525	65	79866	48.51	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 97.02%			
85) toluene-d8 (s)	13.308	98	360058	57.17	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 114.34%			
110) 4-bromofluorobenzene (s)	16.838	95	149658	47.85	ug/L	-0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 95.70%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.382	59	44384	218.99	ug/L	94
4) 1,4-dioxane	12.063	88	21945	1144.18	ug/L #	93
11) chlorodifluoromethane	3.762	51	54523	34.04	ug/L	97
12) dichlorodifluoromethane	3.736	85	78100	32.52	ug/L	100
15) chloromethane	4.071	50	111125	39.18	ug/L	99
16) vinyl chloride	4.317	62	96489	42.35	ug/L	100
18) bromomethane	4.981	94	72600	51.21	ug/L	97
19) chloroethane	5.154	64	54581	47.15	ug/L	95
21) trichlorofluoromethane	5.624	101	121566	46.29	ug/L	97
22) pentane	5.698	43	81962	27.40	ug/L	97
23) ethyl ether	6.043	74	52565	56.61	ug/L	97
27) acrolein	6.320	56	136194	480.07	ug/L	100
28) 1,1-dichloroethene	6.493	96	79500	56.27	ug/L	95
29) acetone	6.550	58	6547	58.72	ug/L #	74
30) allyl chloride	7.078	76	56294	56.01	ug/L #	77
31) acetonitrile	7.047	40	62758	461.07	ug/L	97
32) iodomethane	6.791	142	183731	58.84	ug/L	98
33) iso-butyl alcohol	10.332	43	34955	476.90	ug/L	98
34) carbon disulfide	6.921	76	281749	52.23	ug/L	98
35) methylene chloride	7.293	84	102381	56.89	ug/L	89
36) methyl acetate	7.057	43	51546	43.01	ug/L	95
37) methyl tert butyl ether	7.664	73	487230	111.54	ug/L	97
38) trans-1,2-dichloroethene	7.711	96	92520	56.87	ug/L	91
39) di-isopropyl ether	8.354	45	287760	42.53	ug/L	98
40) 2-butanone	9.238	72	9155	58.44	ug/L	62
41) 1,1-dichloroethane	8.375	63	176844	57.51	ug/L	100
42) chloroprene	8.501	53	107108	41.77	ug/L	96
43) acrylonitrile	7.664	53	140181	274.88	ug/L	99
44) vinyl acetate	8.365	86	13408	55.90	ug/L	38
45) ethyl tert-butyl ether	8.930	59	275201	48.93	ug/L	98
46) ethyl acetate	9.275	70	8243	52.87	ug/L	92
47) 2,2-dichloropropane	9.275	77	123458	51.66	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121647.D
Acq On : 12 Dec 2011 2:13 pm
Operator : tamikag
Sample : BS
Misc : MS22502,VX5178,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 16:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.280	96	108818	57.99	ug/L		90
49)	propionitrile	9.369	54	109285	547.67	ug/L		93
50)	tert-Butyl Formate	9.782	59	71398	54.54	ug/L	#	97
51)	bromochloromethane	9.662	128	55527	59.24	ug/L		88
52)	tetrahydrofuran	9.704	42	27861	50.40	ug/L		95
53)	chloroform	9.746	83	175628	58.58	ug/L		98
56)	freon 113	6.482	151	58575	47.32	ug/L		91
57)	methacrylonitrile	9.594	41	48441	52.55	ug/L		99
58)	1,1,1-trichloroethane	10.049	97	134511	56.89	ug/L		96
59)	cyclohexane	10.133	84	112511	48.02	ug/L		88
61)	iso-octane	10.619	57	250699	38.02	ug/L		99
64)	epichlorohydrin	12.649	57	24978	192.16	ug/L		98
65)	n-butyl alcohol	11.310	56	118780	2529.48	ug/L		95
66)	carbon tetrachloride	10.300	117	126218	54.05	ug/L		99
67)	1,1-dichloropropene	10.279	75	120009	50.72	ug/L		98
68)	hexane	8.056	57	81729	32.20	ug/L		98
69)	benzene	10.609	78	378544	54.30	ug/L		97
70)	tert-amyl methyl ether	10.666	73	256240	48.86	ug/L		96
71)	heptane	10.849	57	52402	35.10	ug/L		99
72)	isopropyl acetate	10.546	43	173139	50.68	ug/L		97
73)	1,2-dichloroethane	10.635	62	113108	53.47	ug/L		98
74)	trichloroethene	11.550	130	107519	57.12	ug/L		97
77)	2-nitropropane	12.601	46	1075	40.89	ug/L	#	26
78)	2-chloroethyl vinyl ether	12.649	63	128650	194.15	ug/L		97
79)	methyl methacrylate	11.937	69	54297	51.74	ug/L		89
80)	1,2-dichloropropane	11.901	63	103876	53.03	ug/L		99
81)	dibromomethane	12.115	93	60457	56.00	ug/L		94
82)	methylcyclohexane	11.827	83	118185	41.02	ug/L		99
83)	bromodichloromethane	12.303	83	137548	57.34	ug/L		99
84)	cis-1,3-dichloropropene	12.926	75	166115	54.23	ug/L		95
86)	4-methyl-2-pentanone	13.067	58	33030	53.43	ug/L		88
87)	toluene	13.402	92	242935	54.55	ug/L		100
88)	3-methyl-1-butanol	13.124	55	73046	1060.23	ug/L		95
89)	trans-1,3-dichloropropene	13.695	75	150366	56.00	ug/L		100
90)	ethyl methacrylate	13.710	69	110467	55.19	ug/L		93
91)	1,1,2-trichloroethane	13.982	83	72106	55.61	ug/L		98
92)	2-hexanone	14.233	58	30560	52.69	ug/L		95
94)	3,3-Dimethyl-1-butanol	14.484	57	74905	442.26	ug/L		97
95)	tetrachloroethene	14.186	164	91227	45.40	ug/L		99
96)	1,3-dichloropropane	14.223	76	136361	45.66	ug/L		95
97)	butyl acetate	14.348	56	52397	41.57	ug/L		91
98)	dibromochloromethane	14.568	129	116345	51.19	ug/L		99
99)	1,2-dibromoethane	14.756	107	89436	50.08	ug/L		98
101)	chlorobenzene	15.379	112	284846	48.62	ug/L		98
102)	1,1,1,2-tetrachloroethane	15.468	131	109512	50.28	ug/L		99
103)	ethylbenzene	15.462	91	442667	46.57	ug/L		99
104)	m,p-xylene	15.609	106	352767	94.02	ug/L		100
105)	o-xylene	16.153	106	183395	48.51	ug/L		100
106)	styrene	16.168	104	301257	46.53	ug/L		97
107)	bromoform	16.498	173	84365	50.87	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121647.D
Acq On : 12 Dec 2011 2:13 pm
Operator : tamikag
Sample : BS
Misc : MS22502,VX5178,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 16:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.597	105	440116	43.21 ug/L	99
111) bromobenzene	17.058	156	131854	46.37 ug/L	96
112) 1,1,2,2-tetrachloroethane	16.990	83	107263	43.35 ug/L	99
113) trans-1,4-dichloro-2-b...	17.037	53	25749	42.33 ug/L	91
114) 1,2,3-trichloropropane	17.063	110	27859	45.46 ug/L #	80
115) n-propylbenzene	17.089	91	501996	41.89 ug/L	99
117) 2-chlorotoluene	17.246	126	116383	43.44 ug/L	98
118) 4-chlorotoluene	17.366	91	322241	42.39 ug/L	96
119) 1,3,5-trimethylbenzene	17.272	105	362588	42.81 ug/L	99
120) tert-butylbenzene	17.654	119	324709	42.81 ug/L	98
121) pentachloroethane	17.738	167	88852	45.96 ug/L	97
122) 1,2,4-trimethylbenzene	17.701	105	379276	43.82 ug/L	100
124) sec-butylbenzene	17.884	105	466469	41.36 ug/L	98
125) 1,3-dichlorobenzene	18.072	146	239286	44.24 ug/L	98
126) p-isopropyltoluene	18.015	119	407384	43.14 ug/L	99
127) 1,4-dichlorobenzene	18.161	146	237467	43.11 ug/L	99
128) 1,2-dichlorobenzene	18.548	146	229378	44.46 ug/L	99
129) benzyl chloride	18.282	91	206320	44.32 ug/L	99
131) n-butylbenzene	18.433	92	202649	40.29 ug/L	98
133) 1,2-dibromo-3-chloropr...	19.301	75	17828	40.54 ug/L	90
134) 1,3,5-trichlorobenzene	19.469	180	197920	41.53 ug/L	99
135) hexachlorobutadiene	20.180	225	91880	38.48 ug/L	99
136) naphthalene	20.347	128	300723	45.81 ug/L	99
137) 1,2,4-trichlorobenzene	20.075	180	173814	45.34 ug/L	98
138) 1,2,3-trichlorobenzene	20.583	180	147197	43.45 ug/L	100
139) hexachloroethane	18.794	201	86721	45.37 ug/L	100

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

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121647.D
Acq On    : 12 Dec 2011   2:13 pm
Operator  : tamikag
Sample    : BS
Misc      : MS22502,VX5178,5.0,,,,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Dec 12 16:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title  : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration
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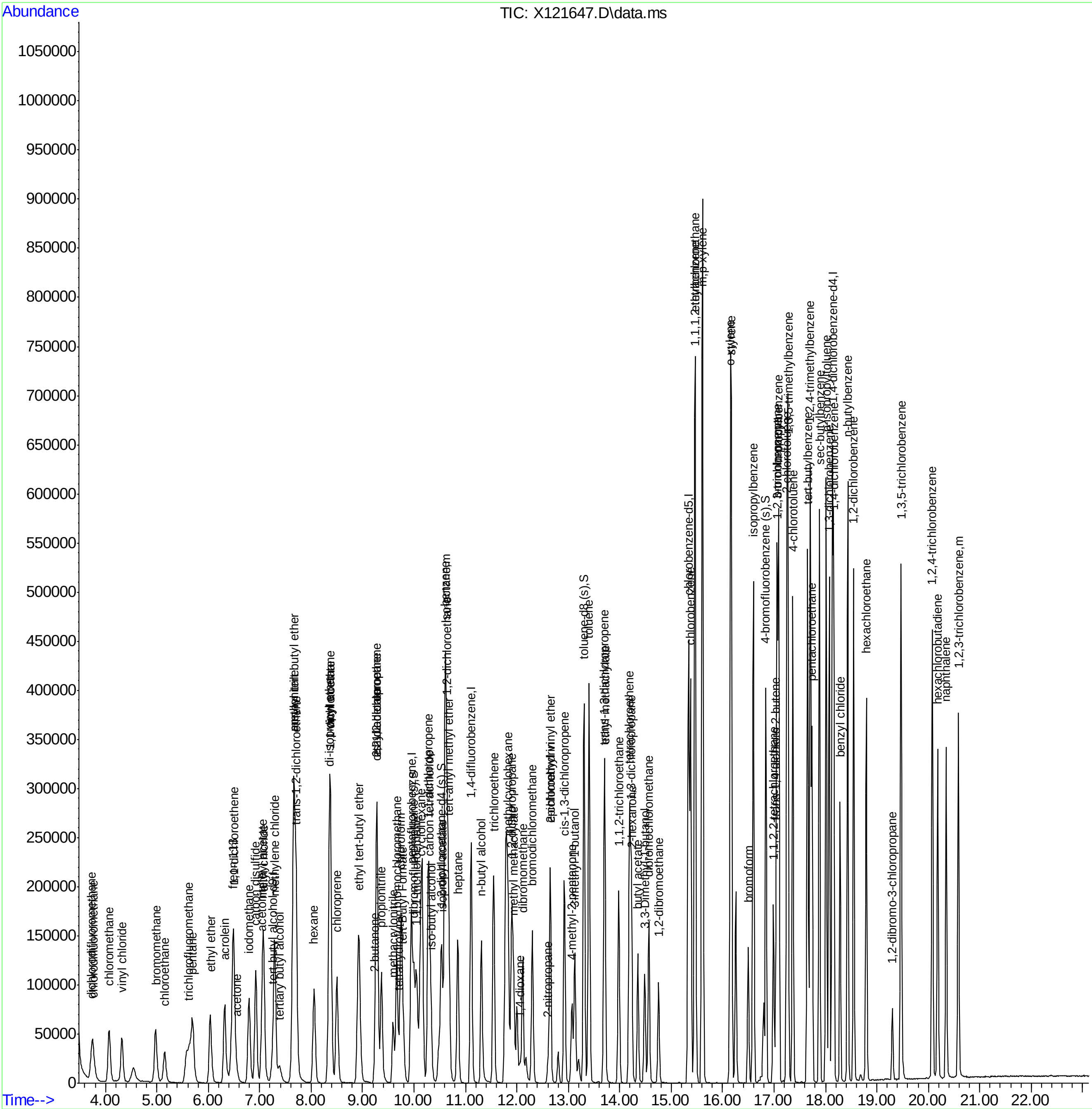


MX5154.M Mon Dec 12 16:21:36 2011 ACCNJ Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121558.D
Acq On : 9 Dec 2011 3:52 pm
Operator : tamikag
Sample : JA93445-17MS
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 12:26:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.277	65	82189	500.00	ug/L	-0.01
5) pentafluorobenzene	9.970	168	200356	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.132	114	293282	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.352	117	300418	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.145	152	162971	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.018	113	92825	57.39	ug/L	-0.01
Spiked Amount 50.000 Range 67 - 131 Recovery = 114.78%						
55) 1,2-dichloroethane-d4 (s)	10.546	65	84177	51.83	ug/L	0.00
Spiked Amount 50.000 Range 66 - 130 Recovery = 103.66%						
85) toluene-d8 (s)	13.323	98	347060	57.14	ug/L	0.00
Spiked Amount 50.000 Range 76 - 125 Recovery = 114.28%						
110) 4-bromofluorobenzene (s)	16.859	95	138083	48.11	ug/L	0.00
Spiked Amount 50.000 Range 53 - 142 Recovery = 96.22%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.408	59	210315	973.57	ug/L	90
4) 1,4-dioxane	12.078	88	18638	911.73	ug/L #	97
11) chlorodifluoromethane	3.778	51	53571	33.91	ug/L	98
12) dichlorodifluoromethane	3.757	85	79039	33.36	ug/L	96
15) chloromethane	4.086	50	89318	31.92	ug/L	99
16) vinyl chloride	4.343	62	76734	34.15	ug/L	98
18) bromomethane	4.997	94	51801	37.05	ug/L	98
19) chloroethane	5.174	64	41777	36.59	ug/L	94
21) trichlorofluoromethane	5.661	101	96063	37.09	ug/L	96
22) pentane	5.724	43	97754	33.14	ug/L	98
23) ethyl ether	6.058	74	37136	40.55	ug/L	92
27) acrolein	6.341	56	97044	346.79	ug/L #	99
28) 1,1-dichloroethene	6.519	96	57342	41.15	ug/L	98
29) acetone	6.576	58	6806	61.89	ug/L #	75
30) allyl chloride	7.094	76	39376	39.72	ug/L #	87
31) acetonitrile	7.068	40	52182	388.66	ug/L #	82
32) iodomethane	6.817	142	124992	40.58	ug/L	98
33) iso-butyl alcohol	10.358	43	30385	420.27	ug/L	92
34) carbon disulfide	6.947	76	204230	38.38	ug/L	98
35) methylene chloride	7.319	84	69746	39.29	ug/L	97
36) methyl acetate	7.078	43	47889	40.51	ug/L	96
37) methyl tert butyl ether	7.685	73	914392	212.23	ug/L	98
38) trans-1,2-dichloroethene	7.732	96	64633	40.28	ug/L	94
39) di-isopropyl ether	8.380	45	224019	33.56	ug/L	98
40) 2-butanone	9.264	72	9063	58.65	ug/L	67
41) 1,1-dichloroethane	8.401	63	119534	39.41	ug/L	98
42) chloroprene	8.522	53	89844	35.52	ug/L	96
43) acrylonitrile	7.690	53	110145	218.97	ug/L	98
44) vinyl acetate	8.396	86	9526	40.27	ug/L	42
45) ethyl tert-butyl ether	8.951	59	199703	36.00	ug/L	98
46) ethyl acetate	9.301	70	7907	51.41	ug/L	39
47) 2,2-dichloropropane	9.301	77	94854	40.24	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121558.D
Acq On : 9 Dec 2011 3:52 pm
Operator : tamikag
Sample : JA93445-17MS
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 12:26:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.301	96	75387	40.73	ug/L		95
49) propionitrile	9.390	54	86407	439.00	ug/L		94
50) tert-Butyl Formate	9.803	59	52278	40.49	ug/L	#	98
51) bromochloromethane	9.688	128	39422	42.64	ug/L		85
52) tetrahydrofuran	9.735	42	21444	39.33	ug/L		96
53) chloroform	9.772	83	121770	41.17	ug/L		97
56) freon 113	6.492	151	47166	38.63	ug/L		97
57) methacrylonitrile	9.625	41	36524	40.17	ug/L		97
58) 1,1,1-trichloroethane	10.070	97	98667	42.31	ug/L		95
59) cyclohexane	10.159	84	83653	36.20	ug/L		94
61) iso-octane	10.640	57	207725	31.94	ug/L		99
64) epichlorohydrin	12.669	57	19701	157.16	ug/L		99
65) n-butyl alcohol	11.330	56	100802	2225.86	ug/L		98
66) carbon tetrachloride	10.326	117	92338	41.00	ug/L		97
67) 1,1-dichloropropene	10.295	75	89525	39.23	ug/L		97
68) hexane	8.082	57	77092	31.49	ug/L		97
69) benzene	10.630	78	264863	39.39	ug/L		100
70) tert-amyl methyl ether	10.692	73	207525	41.03	ug/L		97
71) heptane	10.870	57	45268	31.44	ug/L		98
72) isopropyl acetate	10.567	43	81891	24.85	ug/L		79
73) 1,2-dichloroethane	10.661	62	82019	40.20	ug/L		99
74) trichloroethene	11.571	130	76823	42.32	ug/L		97
77) 2-nitropropane	12.643	46	815	32.14	ug/L	#	44
78) 2-chloroethyl vinyl ether	12.669	63	101629	159.03	ug/L		98
79) methyl methacrylate	11.958	69	42460	41.95	ug/L		89
80) 1,2-dichloropropane	11.921	63	72474	38.37	ug/L		99
81) dibromomethane	12.136	93	43052	41.35	ug/L		97
82) methylcyclohexane	11.848	83	97601	35.13	ug/L		95
83) bromodichloromethane	12.324	83	95924	41.46	ug/L		99
84) cis-1,3-dichloropropene	12.947	75	121271	41.05	ug/L		93
86) 4-methyl-2-pentanone	13.088	58	32455	54.44	ug/L		96
87) toluene	13.422	92	171097	39.84	ug/L		98
88) 3-methyl-1-butanol	13.145	55	60320	907.83	ug/L		97
89) trans-1,3-dichloropropene	13.715	75	109029	42.11	ug/L		99
90) ethyl methacrylate	13.731	69	82159	42.56	ug/L		94
91) 1,1,2-trichloroethane	13.998	83	53016	42.39	ug/L		98
92) 2-hexanone	14.249	58	41442	74.09	ug/L		93
94) 3,3-Dimethyl-1-butanol	14.500	57	63794	408.92	ug/L		98
95) tetrachloroethene	14.207	164	66359	35.85	ug/L		97
96) 1,3-dichloropropane	14.238	76	100882	36.67	ug/L		98
97) butyl acetate	14.369	56	42840	36.90	ug/L		96
98) dibromochloromethane	14.589	129	83538	39.90	ug/L		96
99) 1,2-dibromoethane	14.772	107	66596	40.48	ug/L		100
101) chlorobenzene	15.394	112	201662	37.37	ug/L		99
102) 1,1,1,2-tetrachloroethane	15.483	131	77399	38.58	ug/L		98
103) ethylbenzene	15.478	91	321895	36.77	ug/L		99
104) m,p-xylene	15.624	106	255093	73.81	ug/L		99
105) o-xylene	16.168	106	130319	37.43	ug/L		99
106) styrene	16.189	104	218007	36.55	ug/L		95
107) bromoform	16.519	173	62201	40.71	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121558.D
Acq On : 9 Dec 2011 3:52 pm
Operator : tamikag
Sample : JA93445-17MS
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 12:26:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

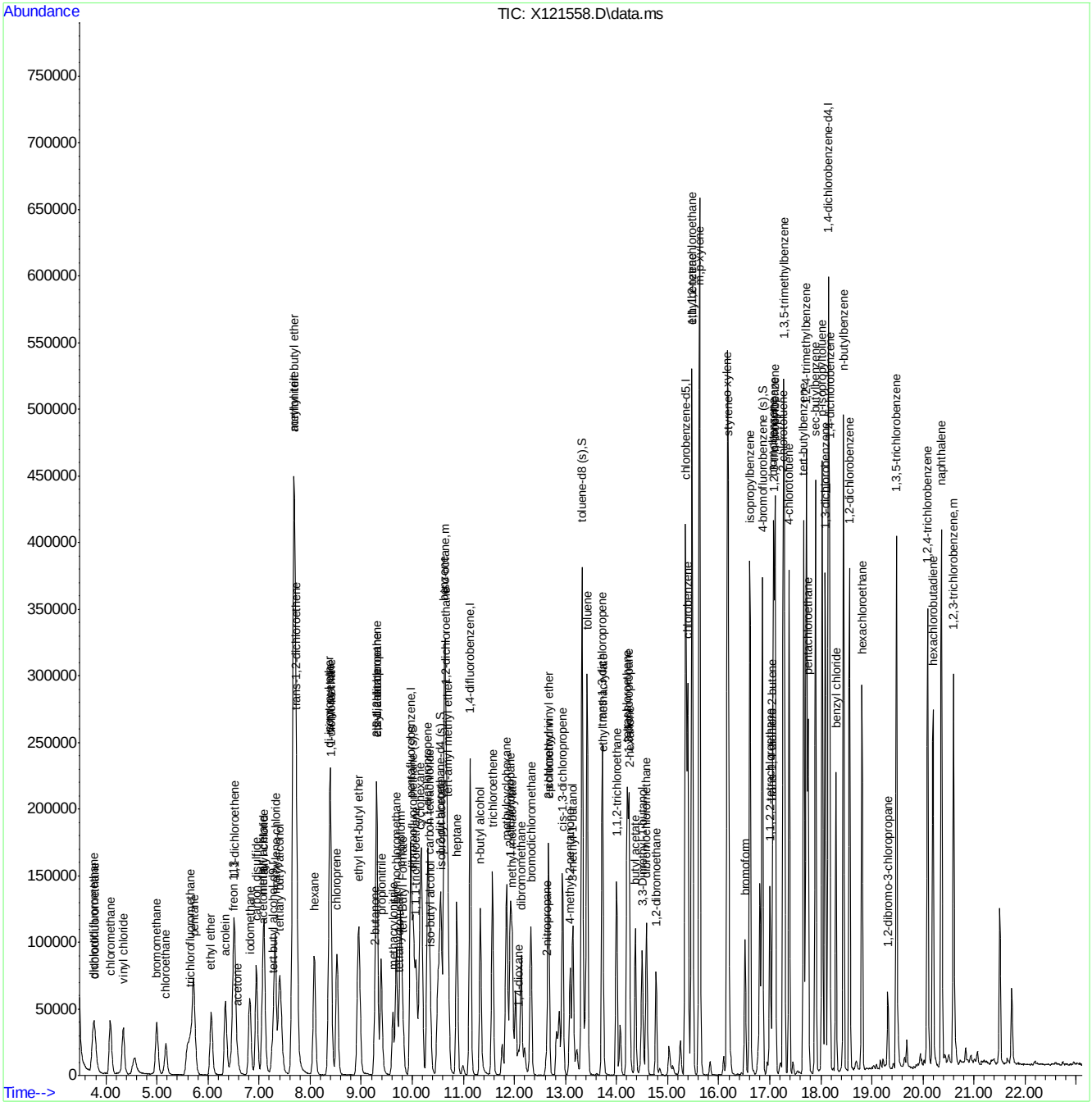
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.613	105	327313	35.01 ug/L	99
111) bromobenzene	17.073	156	96227	36.87 ug/L	95
112) 1,1,2,2-tetrachloroethane	17.005	83	84710	37.30 ug/L	98
113) trans-1,4-dichloro-2-b...	17.052	53	20600	36.90 ug/L	97
114) 1,2,3-trichloropropane	17.078	110	21160	37.62 ug/L #	82
115) n-propylbenzene	17.105	91	372022	33.83 ug/L	98
117) 2-chlorotoluene	17.261	126	83770	34.07 ug/L	99
118) 4-chlorotoluene	17.377	91	235766	33.80 ug/L	98
119) 1,3,5-trimethylbenzene	17.282	105	265813	34.20 ug/L	99
120) tert-butylbenzene	17.664	119	243368	34.96 ug/L	98
121) pentachloroethane	17.753	167	64196	36.19 ug/L	97
122) 1,2,4-trimethylbenzene	17.716	105	276625	34.82 ug/L	100
124) sec-butylbenzene	17.894	105	354575	34.25 ug/L	99
125) 1,3-dichlorobenzene	18.083	146	174680	35.19 ug/L	99
126) p-isopropyltoluene	18.025	119	298817	34.48 ug/L	100
127) 1,4-dichlorobenzene	18.172	146	173834	34.38 ug/L	100
128) 1,2-dichlorobenzene	18.564	146	169479	35.80 ug/L	98
129) benzyl chloride	18.297	91	167042	39.10 ug/L	100
131) n-butylbenzene	18.443	92	154946	33.57 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.312	75	14660	36.32 ug/L	96
134) 1,3,5-trichlorobenzene	19.479	180	148667	33.99 ug/L	99
135) hexachlorobutadiene	20.196	225	73773	33.67 ug/L	97
136) naphthalene	20.363	128	357207	59.29 ug/L	98
137) 1,2,4-trichlorobenzene	20.091	180	127905	36.35 ug/L	97
138) 1,2,3-trichlorobenzene	20.598	180	114106	36.70 ug/L	99
139) hexachloroethane	18.810	201	63775	36.36 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121558.D
Acq On : 9 Dec 2011 3:52 pm
Operator : tamikag
Sample : JA93445-17MS
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 12 12:26:37 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



MX5154.M Mon Dec 12 13:30:16 2011 ACCNJ

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121559.D
Acq On : 9 Dec 2011 4:21 pm
Operator : tamikag
Sample : JA93445-17MSD
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 12 12:26:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.277	65	92221	500.00	ug/L	-0.01
5) pentafluorobenzene	9.970	168	196583	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.132	114	288162	50.00	ug/L	-0.01
93) chlorobenzene-d5	15.352	117	294047	50.00	ug/L	-0.01
108) 1,4-dichlorobenzene-d4	18.145	152	161742	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.018	113	92343	58.19	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 116.38%			
55) 1,2-dichloroethane-d4 (s)	10.546	65	85327	53.55	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 107.10%			
85) toluene-d8 (s)	13.323	98	343281	57.53	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 115.06%			
110) 4-bromofluorobenzene (s)	16.853	95	136444	47.90	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 95.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.402	59	204202	842.44	ug/L	72
4) 1,4-dioxane	12.083	88	19412	846.29	ug/L #	95
11) chlorodifluoromethane	3.773	51	49164	31.72	ug/L	98
12) dichlorodifluoromethane	3.752	85	73466	31.61	ug/L	98
15) chloromethane	4.081	50	83090	30.27	ug/L	98
16) vinyl chloride	4.337	62	71695	32.52	ug/L	100
18) bromomethane	4.991	94	49292	35.93	ug/L	98
19) chloroethane	5.174	64	38621	34.47	ug/L	95
21) trichlorofluoromethane	5.650	101	88533	34.84	ug/L	99
22) pentane	5.713	43	90631	31.31	ug/L	99
23) ethyl ether	6.063	74	35940	40.00	ug/L	93
27) acrolein	6.341	56	100507	366.06	ug/L #	100
28) 1,1-dichloroethene	6.513	96	53314	38.99	ug/L	99
29) acetone	6.581	58	6886	63.82	ug/L #	80
30) allyl chloride	7.094	76	36406	37.43	ug/L	90
31) acetonitrile	7.057	40	51238	388.95	ug/L #	54
32) iodomethane	6.811	142	119447	39.52	ug/L	98
33) iso-butyl alcohol	10.352	43	32462	457.62	ug/L	97
34) carbon disulfide	6.942	76	191025	36.59	ug/L	98
35) methylene chloride	7.313	84	67445	38.72	ug/L	94
36) methyl acetate	7.078	43	48981	42.23	ug/L	96
37) methyl tert butyl ether	7.685	73	640183	151.44	ug/L	98
38) trans-1,2-dichloroethene	7.732	96	61117	38.82	ug/L	89
39) di-isopropyl ether	8.380	45	217090	33.15	ug/L	98
40) 2-butanone	9.270	72	8655	57.08	ug/L	90
41) 1,1-dichloroethane	8.396	63	114018	38.31	ug/L	98
42) chloroprene	8.527	53	84081	33.88	ug/L	99
43) acrylonitrile	7.685	53	111783	226.49	ug/L	99
44) vinyl acetate	8.391	86	9476	40.82	ug/L	54
45) ethyl tert-butyl ether	8.951	59	195820	35.98	ug/L	98
46) ethyl acetate	9.296	70	7929	52.55	ug/L #	19
47) 2,2-dichloropropane	9.301	77	87364	37.77	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121559.D
Acq On : 9 Dec 2011 4:21 pm
Operator : tamikag
Sample : JA93445-17MSD
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 12 12:26:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48) cis-1,2-dichloroethene	9.306	96	72469	39.90 ug/L	93
49) propionitrile	9.390	54	90430	468.26 ug/L	95
50) tert-Butyl Formate	9.803	59	52432	41.39 ug/L #	99
51) bromochloromethane	9.688	128	38448	42.38 ug/L	83
52) tetrahydrofuran	9.725	42	22507	42.07 ug/L	95
53) chloroform	9.766	83	116539	40.16 ug/L	95
56) freon 113	6.503	151	44008	36.73 ug/L	96
57) methacrylonitrile	9.620	41	37057	41.54 ug/L	95
58) 1,1,1-trichloroethane	10.070	97	92222	40.30 ug/L	96
59) cyclohexane	10.159	84	78661	34.69 ug/L	92
61) iso-octane	10.640	57	188831	29.59 ug/L	98
64) epichlorohydrin	12.664	57	20473	166.22 ug/L	97
65) n-butyl alcohol	11.330	56	108984	2449.29 ug/L	97
66) carbon tetrachloride	10.326	117	86734	39.20 ug/L	100
67) 1,1-dichloropropene	10.300	75	83632	37.30 ug/L	98
68) hexane	8.077	57	72149	30.00 ug/L	98
69) benzene	10.629	78	251767	38.11 ug/L	97
70) tert-amyl methyl ether	10.692	73	196764	39.59 ug/L	96
71) heptane	10.870	57	41091	29.05 ug/L	98
72) isopropyl acetate	10.567	43	89646	27.69 ug/L	83
73) 1,2-dichloroethane	10.661	62	79827	39.82 ug/L	98
74) trichloroethene	11.571	130	71335	40.00 ug/L	98
77) 2-nitropropane	12.638	46	596	23.92 ug/L #	62
78) 2-chloroethyl vinyl ether	12.669	63	102744	163.63 ug/L	98
79) methyl methacrylate	11.958	69	43837	44.08 ug/L	84
80) 1,2-dichloropropane	11.921	63	70400	37.93 ug/L	98
81) dibromomethane	12.136	93	42554	41.60 ug/L	99
82) methylcyclohexane	11.848	83	88907	32.57 ug/L	95
83) bromodichloromethane	12.319	83	93142	40.97 ug/L	100
84) cis-1,3-dichloropropene	12.941	75	116821	40.25 ug/L	95
86) 4-methyl-2-pentanone	13.093	58	31621	53.98 ug/L	92
87) toluene	13.422	92	163200	38.67 ug/L	98
88) 3-methyl-1-butanol	13.145	55	64408	986.58 ug/L	96
89) trans-1,3-dichloropropene	13.715	75	105648	41.52 ug/L	98
90) ethyl methacrylate	13.731	69	81926	43.19 ug/L	92
91) 1,1,2-trichloroethane	13.998	83	51654	42.04 ug/L	96
92) 2-hexanone	14.249	58	39020	71.00 ug/L	93
94) 3,3-Dimethyl-1-butanol	14.500	57	69619	455.92 ug/L	98
95) tetrachloroethene	14.207	164	63545	35.07 ug/L	96
96) 1,3-dichloropropane	14.238	76	98632	36.63 ug/L	100
97) butyl acetate	14.369	56	43463	38.25 ug/L	90
98) dibromochloromethane	14.589	129	82838	40.43 ug/L	99
99) 1,2-dibromoethane	14.772	107	65848	40.90 ug/L	99
101) chlorobenzene	15.394	112	192800	36.50 ug/L	98
102) 1,1,1,2-tetrachloroethane	15.483	131	73919	37.64 ug/L	99
103) ethylbenzene	15.478	91	305228	35.62 ug/L	99
104) m,p-xylene	15.624	106	241390	71.36 ug/L	100
105) o-xylene	16.168	106	124346	36.48 ug/L	98
106) styrene	16.189	104	208715	35.75 ug/L	95
107) bromoform	16.513	173	61489	41.12 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121559.D
Acq On : 9 Dec 2011 4:21 pm
Operator : tamikag
Sample : JA93445-17MSD
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 12 12:26:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

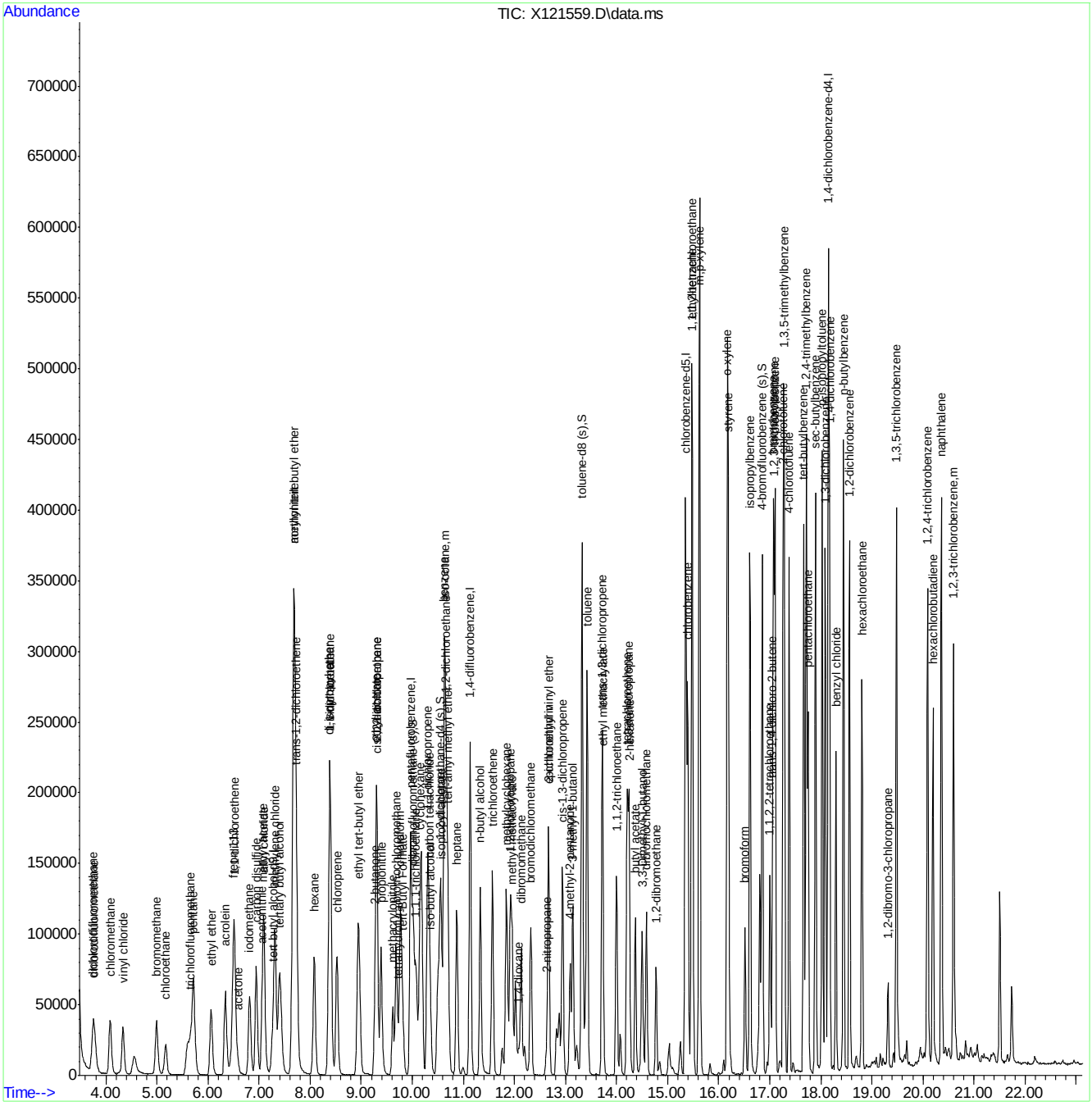
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
109) isopropylbenzene	16.613	105	306462	33.03	ug/L		99
111) bromobenzene	17.073	156	92106	35.56	ug/L		96
112) 1,1,2,2-tetrachloroethane	17.000	83	84861	37.65	ug/L		99
113) trans-1,4-dichloro-2-b...	17.052	53	20695	37.35	ug/L		97
114) 1,2,3-trichloropropane	17.078	110	21736	38.94	ug/L	#	72
115) n-propylbenzene	17.105	91	353089	32.35	ug/L		99
117) 2-chlorotoluene	17.261	126	79950	32.76	ug/L		99
118) 4-chlorotoluene	17.376	91	227504	32.86	ug/L		99
119) 1,3,5-trimethylbenzene	17.282	105	253122	32.81	ug/L		99
120) tert-butylbenzene	17.664	119	229029	33.15	ug/L		97
121) pentachloroethane	17.753	167	61668	35.02	ug/L		98
122) 1,2,4-trimethylbenzene	17.716	105	264008	33.49	ug/L		99
124) sec-butylbenzene	17.894	105	332029	32.32	ug/L		98
125) 1,3-dichlorobenzene	18.083	146	168867	34.28	ug/L		99
126) p-isopropyltoluene	18.025	119	284193	33.04	ug/L		98
127) 1,4-dichlorobenzene	18.171	146	170427	33.96	ug/L		100
128) 1,2-dichlorobenzene	18.558	146	165747	35.27	ug/L		99
129) benzyl chloride	18.297	91	166004	39.15	ug/L		99
131) n-butylbenzene	18.443	92	147054	32.10	ug/L		98
133) 1,2-dibromo-3-chloropr...	19.317	75	15115	37.74	ug/L		83
134) 1,3,5-trichlorobenzene	19.479	180	144453	33.27	ug/L		99
135) hexachlorobutadiene	20.196	225	69009	31.73	ug/L		96
136) naphthalene	20.363	128	343515	57.45	ug/L		99
137) 1,2,4-trichlorobenzene	20.091	180	128427	36.78	ug/L		99
138) 1,2,3-trichlorobenzene	20.598	180	116825	37.86	ug/L		99
139) hexachloroethane	18.804	201	59664	34.27	ug/L		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121559.D
Acq On : 9 Dec 2011 4:21 pm
Operator : tamikag
Sample : JA93445-17MSD
Misc : MS22413,VX5174,4.8,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 12 12:26:41 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190190.D Vial: 67
Acq On : 10 Dec 2011 6:48 pm Operator: EmilyT
Sample : ja93486-6ms Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:34 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.53	65	157053	500.00 ug/L	0.03
4) pentafluorobenzene	9.75	168	263784	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.65	114	427271	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	412972	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.57	152	251332	50.00 ug/L	0.00

System Monitoring Compounds					
44) dibromofluoromethane (s)	9.75	113	133895	46.52 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 93.04%		
45) 1,2-dichloroethane-d4 (s)	10.16	65	156710	45.30 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 90.60%		
75) toluene-d8 (s)	12.37	98	536534	47.03 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 94.06%		
99) 4-bromofluorobenzene (s)	15.27	95	224622	39.32 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 78.64%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.36	88	53808	1460.50 ug/L #	94
3) tertiary butyl alcohol	7.64	59	103728	254.13 ug/L	99
6) chlorodifluoromethane	4.24	51	143583	41.80 ug/L	99
7) dichlorodifluoromethane	4.24	85	164510	42.08 ug/L	99
8) chloromethane	4.55	50	221481	53.17 ug/L	99
9) vinyl chloride	4.82	62	203050	50.18 ug/L	99
10) bromomethane	5.41	94	27363	10.62 ug/L	99
11) chloroethane	5.59	64	50951	21.64 ug/L	91
13) trichlorofluoromethane	6.11	101	200998	42.95 ug/L	100
14) pentane	6.20	43	304032	46.72 ug/L	99
15) ethyl ether	6.51	74	113230	57.01 ug/L	98
16) acrolein	6.67	56	342324	463.61 ug/L	99
18) 1,1-dichloroethene	6.91	96	139532	44.50 ug/L	98
19) acetone	6.90	58	17782	52.75 ug/L	97
20) allyl chloride	7.40	41	306237	45.97 ug/L	93
21) acetonitrile	7.26	40	125557	635.06 ug/L	99
23) iodomethane	7.15	142	263068	50.16 ug/L	99
24) iso-butyl alcohol	9.98	74	7453	440.94 ug/L	97
25) carbon disulfide	7.31	76	495483	48.57 ug/L	99
26) methylene chloride	7.55	84	184712	51.11 ug/L	97
27) methyl acetate	7.37	43	176324	62.99 ug/L	98
28) methyl tert butyl ether	7.97	73	525382	51.06 ug/L	99
29) trans-1,2-dichloroethene	7.97	96	154736	46.69 ug/L	98
30) di-isopropyl ether	8.57	45	563451	52.74 ug/L	95
31) ethyl tert-butyl ether	9.02	59	534493	51.90 ug/L	98
32) 2-butanone	9.16	72	20392	48.71 ug/L	94
33) 1,1-dichloroethane	8.49	63	289997	49.82 ug/L	100
34) chloroprene	8.63	53	227828	47.37 ug/L	97
35) acrylonitrile	7.81	53	360013	270.61 ug/L	96
36) vinyl acetate	8.51	86	11348	16.84 ug/L	95
37) ethyl acetate	9.22	45	20001	48.34 ug/L	95
38) 2,2-dichloropropane	9.25	77	214956	43.30 ug/L	98
39) cis-1,2-dichloroethene	9.21	96	177621	49.75 ug/L	100

(#) = qualifier out of range (m) = manual integration
D190190.D MD7671.M Mon Dec 12 16:35:13 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190190.D Vial: 67
Acq On : 10 Dec 2011 6:48 pm Operator: EmilyT
Sample : ja93486-6ms Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:34 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.18	54	280233	544.28 ug/L	100
41) bromochloromethane	9.49	128	87352	51.42 ug/L	97
42) tetrahydrofuran	9.59	72	24682	50.61 ug/L	99
43) chloroform	9.56	83	271460	50.73 ug/L	100
46) freon 113	6.92	151	104161	42.29 ug/L	95
47) methacrylonitrile	9.41	41	101238	51.92 ug/L	98
48) t-butyl formate	9.65	59	90434	30.58 ug/L	94
49) 1,1,1-trichloroethane	9.87	97	217050	45.18 ug/L	98
50) tert-amyl methyl ether	10.38	73	493281	49.52 ug/L	98
52) cyclohexane	10.00	84	222030	43.57 ug/L #	100
53) tert amyl alcohol	10.14	55	40383	266.03 ug/L	81
54) 2,2,4-trimethylpentane	10.40	57	562261	43.68 ug/L	99
55) epichlorohydrin	11.87	57	92413	241.08 ug/L	97
56) n-butyl alcohol	10.72	56	266254	2582.51 ug/L	98
57) carbon tetrachloride	10.10	117	183624	43.86 ug/L	97
58) 1,1-dichloropropene	10.05	75	199942	44.64 ug/L	99
59) hexane	8.34	57	190001	41.61 ug/L	98
60) benzene	10.29	78	635722	48.63 ug/L	99
61) heptane	10.56	57	108028	43.40 ug/L	99
62) isopropyl acetate	10.22	43	301033	48.23 ug/L	99
63) 1,2-dichloroethane	10.25	62	221513	50.43 ug/L	100
64) Ethyl Acrylate	11.01	55	198136	46.96 ug/L	99
65) trichloroethene	11.02	95	166798	49.78 ug/L	99
66) 2-nitropropane	11.70	43	45846	42.51 ug/L	98
67) 2-chloroethyl vinyl ether	11.78	63	561205	263.23 ug/L	99
68) methyl methacrylate	11.28	100	46742	46.73 ug/L	94
69) tert-amyl ethyl ether	11.24	87	251346	53.18 ug/L	96
70) 1,2-dichloropropane	11.25	63	173009	50.29 ug/L	97
71) methylcyclohexane	11.31	83	242702	42.12 ug/L	98
72) dibromomethane	11.38	93	101354	49.40 ug/L	100
73) bromodichloromethane	11.52	83	214059	50.30 ug/L	99
74) cis-1,3-dichloropropene	12.02	75	272848	50.41 ug/L	98
76) 4-methyl-2-pentanone	12.13	58	74617	51.11 ug/L	97
77) toluene	12.44	92	386305	47.24 ug/L	99
78) 3-methyl-1-butanol	12.12	70	107111	1076.49 ug/L	97
79) trans-1,3-dichloropropene	12.59	75	253930	48.91 ug/L	96
80) ethyl methacrylate	12.64	69	225673	48.32 ug/L	98
81) 1,1,2-trichloroethane	12.82	83	126689	49.25 ug/L	98
82) 2-hexanone	13.04	58	74119	52.88 ug/L	99
84) tetrachloroethene	13.10	166	299838	81.91 ug/L	96
85) 1,3-dichloropropane	13.02	76	259087	48.68 ug/L	99
86) butyl acetate	13.15	56	108383	44.60 ug/L	98
87) 3,3-dimethyl-1-butanol	13.21	57	209237	566.35 ug/L	98
88) dibromochloromethane	13.31	129	168558	46.91 ug/L	99
89) 1,2-dibromoethane	13.47	107	156547	49.68 ug/L	100
90) chlorobenzene	14.02	112	429299	46.29 ug/L	99
91) 1,1,1,2-tetrachloroethane	14.08	131	161589	47.77 ug/L	100
92) ethylbenzene	14.11	91	722915	45.46 ug/L	99
93) m,p-xylene	14.23	106	573647	90.73 ug/L	100

(#) = qualifier out of range (m) = manual integration
D190190.D MD7671.M Mon Dec 12 16:35:14 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190190.D Vial: 67
Acq On : 10 Dec 2011 6:48 pm Operator: EmilyT
Sample : ja93486-6ms Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:34 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

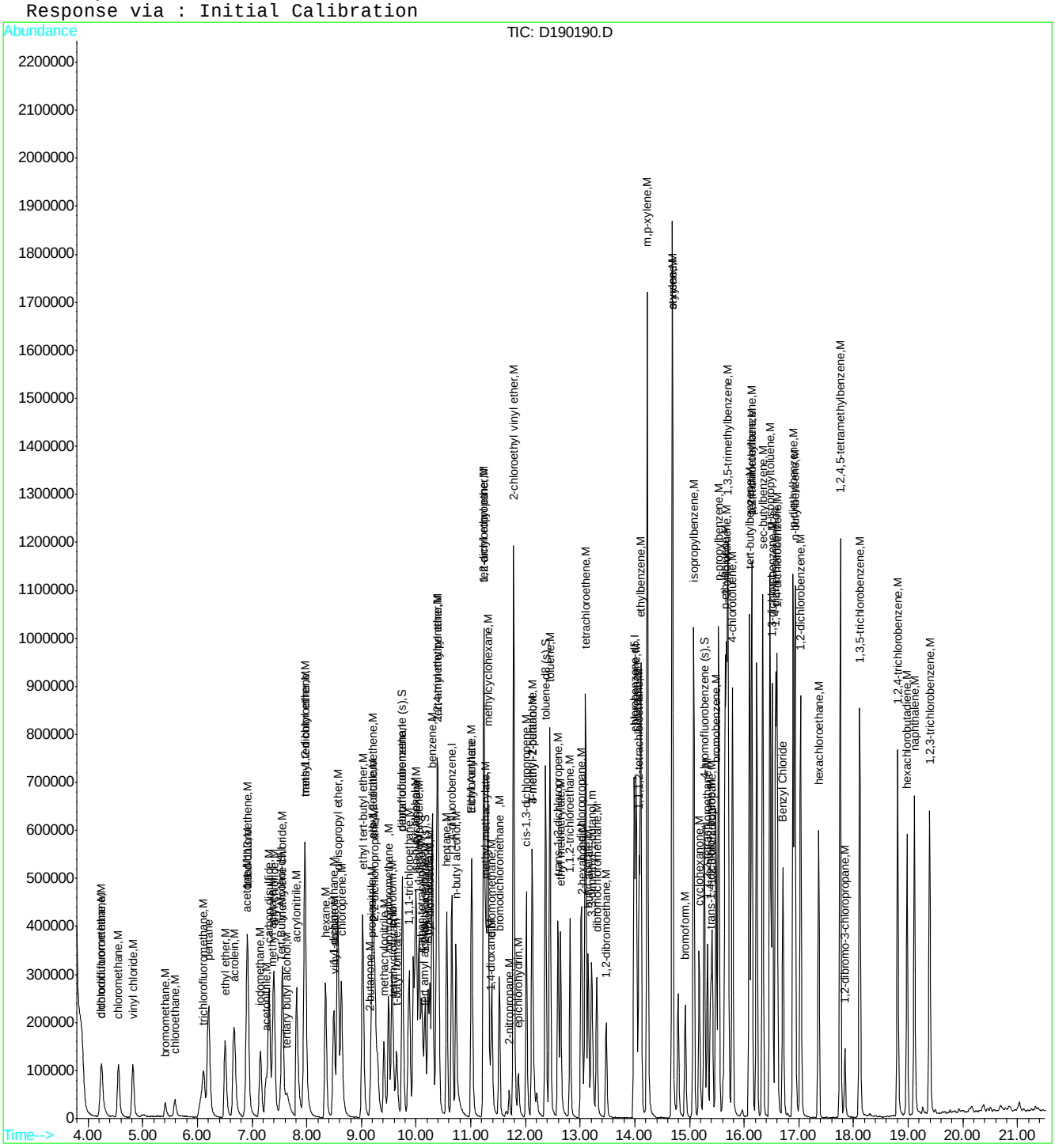
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
94)	o-xylene	14.68	106	293651	46.76 ug/L		98
95)	styrene	14.68	104	506284	46.67 ug/L		99
96)	bromoform	14.92	173	124175	43.33 ug/L		98
98)	isopropylbenzene	15.07	105	736913	41.25 ug/L		99
100)	bromobenzene	15.48	156	210742	45.81 ug/L		95
101)	cyclohexanone	15.17	55	188867	457.09 ug/L		98
102)	1,1,2,2-tetrachloroethane	15.33	83	198892	40.29 ug/L		100
103)	trans-1,4-dichloro-2-buten	15.38	53	66742	47.11 ug/L		97
104)	1,2,3-trichloropropane	15.41	110	61527	44.33 ug/L		94
105)	n-propylbenzene	15.54	91	879469	42.19 ug/L		100
106)	p-ethyltoluene	15.65	105	681687	41.77 ug/L		99
107)	2-chlorotoluene	15.68	126	182319	42.14 ug/L		95
108)	4-chlorotoluene	15.78	91	584328	42.62 ug/L		99
109)	1,3,5-trimethylbenzene	15.70	105	668126	41.75 ug/L		99
110)	tert-butylbenzene	16.09	119	636421	45.62 ug/L		98
111)	pentachloroethane	16.15	167	6744	2.26 ug/L		94
112)	1,2,4-trimethylbenzene	16.14	105	691587	43.38 ug/L		90
113)	sec-butylbenzene	16.34	105	830413	41.21 ug/L		99
114)	1,3-dichlorobenzene	16.51	146	407837	46.46 ug/L		100
115)	p-isopropyltoluene	16.47	119	706221	42.79 ug/L		99
116)	1,4-dichlorobenzene	16.60	146	438513	45.48 ug/L		99
117)	Benzyl Chloride	16.71	91	427187	43.16 ug/L		99
118)	p-diethylbenzene	16.90	119	427506	42.52 ug/L		99
119)	1,2-dichlorobenzene	17.03	146	415947	47.08 ug/L		99
120)	n-butylbenzene	16.93	92	399323	42.69 ug/L		99
121)	1,2,4,5-tetramethylbenzene	17.76	119	694886	44.44 ug/L		100
122)	1,2-dibromo-3-chloropropan	17.84	75	40887	49.42 ug/L		99
123)	1,3,5-trichlorobenzene	18.11	180	326106	46.32 ug/L		98
124)	1,2,4-trichlorobenzene	18.80	180	293119	48.51 ug/L		98
125)	hexachlorobutadiene	18.98	225	148219	43.85 ug/L	#	69
126)	naphthalene	19.11	128	647361	57.87 ug/L		99
127)	1,2,3-trichlorobenzene	19.39	180	249433	57.32 ug/L		98
128)	hexachloroethane	17.36	119	127156	42.96 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190190.D Vial: 67
Acq On : 10 Dec 2011 6:48 pm Operator: EmilyT
Sample : ja93486-6ms Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:34 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190191.D Vial: 68
Acq On : 10 Dec 2011 7:18 pm Operator: EmilyT
Sample : ja93486-6msd Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:35 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.53	65	154121	500.00 ug/L	0.02
4) pentafluorobenzene	9.75	168	263326	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.65	114	422740	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	421752	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	260702	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	134215	46.71 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 93.42%		
45) 1,2-dichloroethane-d4 (s)	10.16	65	155750	45.10 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 90.20%		
75) toluene-d8 (s)	12.36	98	533088	47.23 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 94.46%		
99) 4-bromofluorobenzene (s)	15.27	95	237611	40.10 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 80.20%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.36	88	47627	1330.27 ug/L #	96
3) tertiary butyl alcohol	7.65	59	101431	253.23 ug/L	96
6) chlorodifluoromethane	4.24	51	146451	42.71 ug/L	97
7) dichlorodifluoromethane	4.24	85	168307	43.13 ug/L	99
8) chloromethane	4.56	50	224522	54.00 ug/L	100
9) vinyl chloride	4.82	62	205936	50.98 ug/L	100
10) bromomethane	5.41	94	30074	11.70 ug/L	99
11) chloroethane	5.59	64	61540	26.18 ug/L	92
13) trichlorofluoromethane	6.11	101	204425	43.76 ug/L	100
14) pentane	6.21	43	308531	47.50 ug/L	99
15) ethyl ether	6.51	74	111998	56.49 ug/L	97
16) acrolein	6.67	56	328157	445.20 ug/L	99
18) 1,1-dichloroethene	6.91	96	141728	45.28 ug/L	98
19) acetone	6.89	58	17789	52.86 ug/L	94
20) allyl chloride	7.40	41	290797	43.73 ug/L	94
21) acetonitrile	7.26	40	123731	626.91 ug/L	99
23) iodomethane	7.16	142	264484	50.51 ug/L	98
24) iso-butyl alcohol	9.98	74	7847	465.05 ug/L	98
25) carbon disulfide	7.31	76	496881	48.79 ug/L	99
26) methylene chloride	7.55	84	184241	51.07 ug/L	95
27) methyl acetate	7.38	43	178684	63.94 ug/L	98
28) methyl tert butyl ether	7.97	73	525024	51.11 ug/L	99
29) trans-1,2-dichloroethene	7.97	96	156587	47.33 ug/L	97
30) di-isopropyl ether	8.57	45	559079	52.42 ug/L	96
31) ethyl tert-butyl ether	9.02	59	531889	51.73 ug/L	100
32) 2-butanone	9.16	72	20425	48.87 ug/L	100
33) 1,1-dichloroethane	8.49	63	284496	48.96 ug/L	98
34) chloroprene	8.64	53	228664	47.62 ug/L	98
35) acrylonitrile	7.81	53	355238	267.48 ug/L	98
36) vinyl acetate	8.52	86	7126	11.48 ug/L	91
37) ethyl acetate	9.22	45	20012	48.45 ug/L	74
38) 2,2-dichloropropane	9.25	77	214061	43.20 ug/L	99
39) cis-1,2-dichloroethene	9.21	96	176226	49.44 ug/L	100

(#) = qualifier out of range (m) = manual integration
D190191.D MD7671.M Mon Dec 12 16:36:09 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190191.D Vial: 68
Acq On : 10 Dec 2011 7:18 pm Operator: EmilyT
Sample : ja93486-6msd Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:35 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.18	54	276243	537.47 ug/L	98
41) bromochloromethane	9.50	128	87772	51.76 ug/L	99
42) tetrahydrofuran	9.58	72	24095	49.50 ug/L	98
43) chloroform	9.56	83	273388	51.18 ug/L	100
46) freon 113	6.92	151	105876	43.06 ug/L	96
47) methacrylonitrile	9.41	41	99723	51.23 ug/L	99
48) t-butyl formate	9.65	59	79730	27.01 ug/L	94
49) 1,1,1-trichloroethane	9.88	97	220281	45.93 ug/L	97
50) tert-amyl methyl ether	10.38	73	492724	49.55 ug/L	98
52) cyclohexane	10.00	84	224915	44.61 ug/L #	100
53) tert amyl alcohol	10.13	55	39821	265.14 ug/L	81
54) 2,2,4-trimethylpentane	10.40	57	567638	44.57 ug/L	99
55) epichlorohydrin	11.87	57	91940	242.42 ug/L	99
56) n-butyl alcohol	10.73	56	254387	2493.85 ug/L	99
57) carbon tetrachloride	10.10	117	186424	45.01 ug/L	98
58) 1,1-dichloropropene	10.05	75	197772	44.63 ug/L	99
59) hexane	8.34	57	191050	42.29 ug/L	97
60) benzene	10.30	78	631273	48.81 ug/L	99
61) heptane	10.56	57	108698	44.14 ug/L	97
62) isopropyl acetate	10.22	43	297496	48.17 ug/L	100
63) 1,2-dichloroethane	10.25	62	220446	50.72 ug/L	100
64) Ethyl Acrylate	11.01	55	197263	47.25 ug/L	99
65) trichloroethene	11.02	95	167460	50.51 ug/L	99
66) 2-nitropropane	11.70	43	46458	43.54 ug/L	96
67) 2-chloroethyl vinyl ether	11.78	63	563882	267.32 ug/L	99
68) methyl methacrylate	11.28	100	45554	46.03 ug/L	94
69) tert-amyl ethyl ether	11.24	87	249654	53.39 ug/L	98
70) 1,2-dichloropropane	11.25	63	171274	50.32 ug/L	96
71) methylcyclohexane	11.31	83	244100	42.81 ug/L	98
72) dibromomethane	11.38	93	100571	49.54 ug/L	99
73) bromodichloromethane	11.52	83	211302	50.18 ug/L	99
74) cis-1,3-dichloropropene	12.01	75	268652	50.16 ug/L	97
76) 4-methyl-2-pentanone	12.12	58	73973	51.21 ug/L	97
77) toluene	12.44	92	381577	47.17 ug/L	100
78) 3-methyl-1-butanol	12.12	70	105257	1069.19 ug/L	98
79) trans-1,3-dichloropropene	12.59	75	254720	49.59 ug/L	98
80) ethyl methacrylate	12.64	69	227721	49.29 ug/L	98
81) 1,1,2-trichloroethane	12.81	83	126807	49.82 ug/L	99
82) 2-hexanone	13.04	58	75324	54.32 ug/L	96
84) tetrachloroethene	13.10	166	301390	80.62 ug/L	98
85) 1,3-dichloropropane	13.02	76	260366	47.90 ug/L	100
86) butyl acetate	13.14	56	111170	44.78 ug/L	96
87) 3,3-dimethyl-1-butanol	13.21	57	210333	557.47 ug/L	99
88) dibromochloromethane	13.31	129	168584	45.94 ug/L	99
89) 1,2-dibromoethane	13.48	107	156356	48.58 ug/L	97
90) chlorobenzene	14.02	112	433797	45.80 ug/L	99
91) 1,1,1,2-tetrachloroethane	14.08	131	159620	46.21 ug/L	99
92) ethylbenzene	14.11	91	735968	45.31 ug/L	99
93) m,p-xylene	14.23	106	579594	89.76 ug/L	98

(#) = qualifier out of range (m) = manual integration
D190191.D MD7671.M Mon Dec 12 16:36:09 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190191.D Vial: 68
Acq On : 10 Dec 2011 7:18 pm Operator: EmilyT
Sample : ja93486-6msd Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:35 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

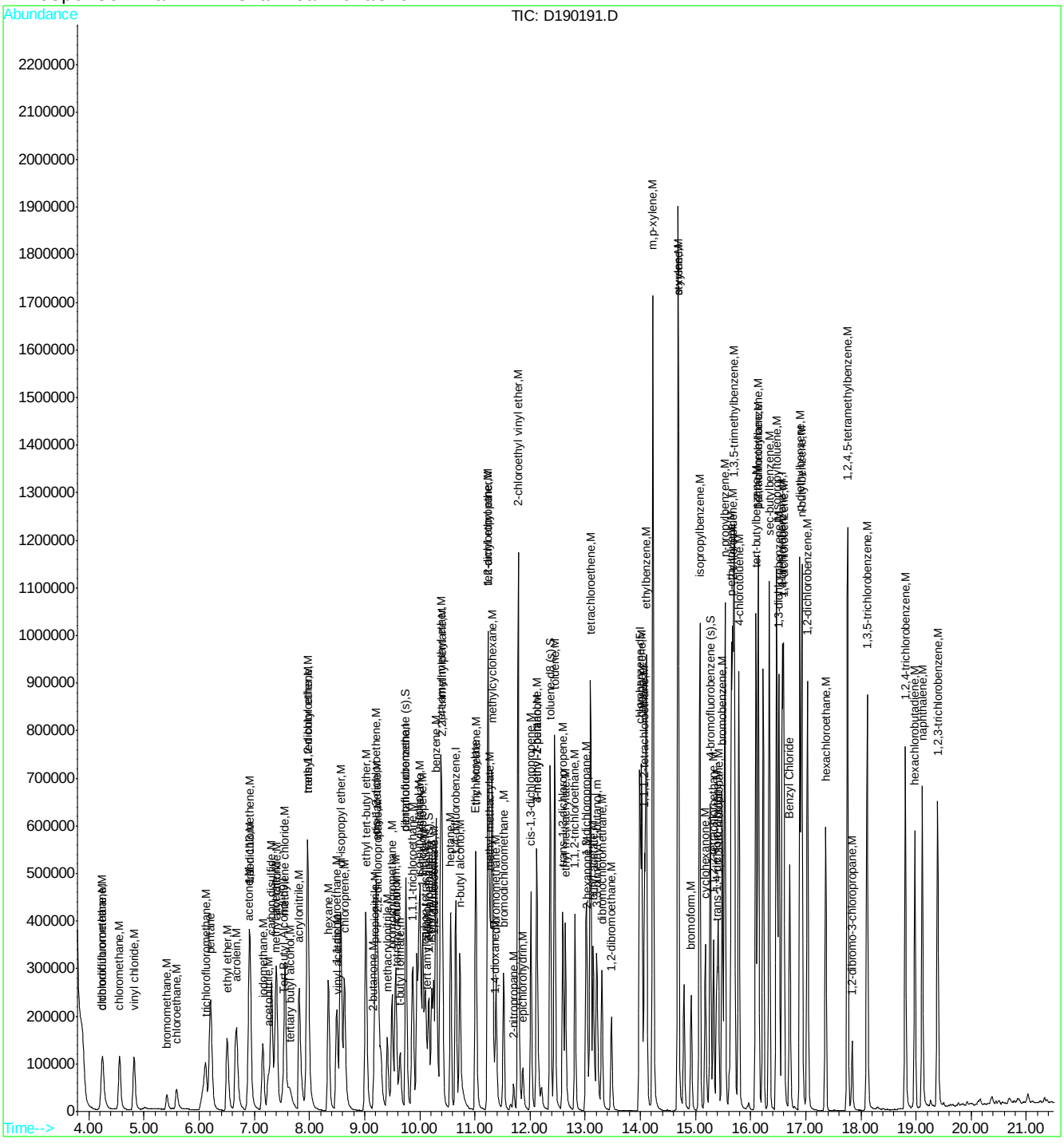
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
94)	o-xylene	14.68	106	297210	46.34 ug/L		97
95)	styrene	14.68	104	520990	47.02 ug/L		100
96)	bromoform	14.92	173	129348	44.16 ug/L		98
98)	isopropylbenzene	15.08	105	743359	40.12 ug/L		99
100)	bromobenzene	15.49	156	216035	45.28 ug/L		99
101)	cyclohexanone	15.18	55	197327	460.40 ug/L		99
102)	1,1,2,2-tetrachloroethane	15.33	83	197634	38.60 ug/L		99
103)	trans-1,4-dichloro-2-buten	15.38	53	68508	46.62 ug/L		96
104)	1,2,3-trichloropropane	15.41	110	63788	44.31 ug/L		95
105)	n-propylbenzene	15.53	91	907110	41.96 ug/L		99
106)	p-ethyltoluene	15.65	105	699278	41.31 ug/L		100
107)	2-chlorotoluene	15.68	126	188572	42.01 ug/L		96
108)	4-chlorotoluene	15.79	91	609056	42.82 ug/L		99
109)	1,3,5-trimethylbenzene	15.70	105	681477	41.06 ug/L		99
110)	tert-butylbenzene	16.09	119	635237	43.90 ug/L		97
111)	pentachloroethane	16.15	167	3215	1.04 ug/L		98
112)	1,2,4-trimethylbenzene	16.14	105	706089	42.70 ug/L		90
113)	sec-butylbenzene	16.34	105	842428	40.30 ug/L		100
114)	1,3-dichlorobenzene	16.51	146	416337	45.72 ug/L		100
115)	p-isopropyltoluene	16.47	119	711742	41.58 ug/L		99
116)	1,4-dichlorobenzene	16.60	146	440228	44.01 ug/L		99
117)	Benzyl Chloride	16.71	91	425821	41.48 ug/L		99
118)	p-diethylbenzene	16.89	119	431362	41.36 ug/L		99
119)	1,2-dichlorobenzene	17.03	146	420790	45.91 ug/L		100
120)	n-butylbenzene	16.93	92	403750	41.61 ug/L		99
121)	1,2,4,5-tetramethylbenzene	17.76	119	698531	43.07 ug/L		99
122)	1,2-dibromo-3-chloropropan	17.84	75	40848	47.59 ug/L		99
123)	1,3,5-trichlorobenzene	18.11	180	327104	44.79 ug/L		99
124)	1,2,4-trichlorobenzene	18.81	180	295742	47.19 ug/L		99
125)	hexachlorobutadiene	18.98	225	151441	43.19 ug/L	#	69
126)	naphthalene	19.11	128	655067	56.44 ug/L		100
127)	1,2,3-trichlorobenzene	19.39	180	252830	56.04 ug/L		98
128)	hexachloroethane	17.36	119	128228	41.77 ug/L		99

(#) = qualifier out of range (m) = manual integration
D190191.D MD7671.M Mon Dec 12 16:36:10 2011 RPT1 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190191.D Vial: 68
Acq On : 10 Dec 2011 7:18 pm Operator: EmilyT
Sample : ja93486-6msd Inst : MSD
Misc : MS22448,VD7742,5.8,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:35 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : x121651.d
Acq On : 12 Dec 2011 4:15 pm
Operator : tamikag
Sample : JA94019-5MS
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 13:38:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.261	65	77562	500.00	ug/L	-0.03
5) pentafluorobenzene	9.950	168	203861	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.116	114	303702	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	317033	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	163174	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.002	113	93256	56.66	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 113.32%			
55) 1,2-dichloroethane-d4 (s)	10.530	65	81152	49.11	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 98.22%			
85) toluene-d8 (s)	13.307	98	358370	56.98	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 113.96%			
110) 4-bromofluorobenzene (s)	16.843	95	143584	49.96	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.92%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.392	59	43147	211.65	ug/L	96
4) 1,4-dioxane	12.068	88	22193	1150.40	ug/L #	93
11) chlorodifluoromethane	3.762	51	98612	61.35	ug/L	97
12) dichlorodifluoromethane	3.741	85	116127	48.17	ug/L	99
15) chloromethane	4.076	50	122768	43.13	ug/L	98
16) vinyl chloride	4.322	62	109668	47.96	ug/L	98
18) bromomethane	4.981	94	73552	51.70	ug/L	97
19) chloroethane	5.159	64	55620	47.87	ug/L	96
21) trichlorofluoromethane	5.630	101	132812	50.39	ug/L	99
22) pentane	5.697	43	143091	47.67	ug/L	98
23) ethyl ether	6.048	74	43816	47.02	ug/L	98
27) acrolein	6.325	56	114059	400.59	ug/L #	99
28) 1,1-dichloroethene	6.498	96	75282	53.09	ug/L	95
29) acetone	6.560	58	7686	68.69	ug/L #	66
30) allyl chloride	7.078	76	48971	48.55	ug/L #	85
31) acetonitrile	7.047	40	59370	434.60	ug/L #	77
32) iodomethane	6.801	142	162909	51.98	ug/L	99
33) iso-butyl alcohol	10.331	43	33471	455.00	ug/L	96
34) carbon disulfide	6.927	76	251582	46.47	ug/L	97
35) methylene chloride	7.298	84	89130	49.35	ug/L	90
36) methyl acetate	7.063	43	62302	51.79	ug/L	96
37) methyl tert butyl ether	7.664	73	215674	49.20	ug/L	98
38) trans-1,2-dichloroethene	7.711	96	84754	51.91	ug/L	89
39) di-isopropyl ether	8.365	45	310844	45.77	ug/L	89
40) 2-butanone	9.249	72	8634	54.91	ug/L	80
41) 1,1-dichloroethane	8.381	63	154278	49.99	ug/L	98
42) chloroprene	8.506	53	132824	51.62	ug/L	97
43) acrylonitrile	7.669	53	114189	223.10	ug/L	98
44) vinyl acetate	8.370	86	10200	42.37	ug/L	74
45) ethyl tert-butyl ether	8.930	59	278471	49.34	ug/L	97
46) ethyl acetate	9.280	70	8115	51.86	ug/L	76
47) 2,2-dichloropropane	9.275	77	123500	51.49	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : x121651.d
Acq On : 12 Dec 2011 4:15 pm
Operator : tamikag
Sample : JA94019-5MS
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 13:38:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.285	96	96812	51.40	ug/L		89
49)	propionitrile	9.374	54	91386	456.32	ug/L		91
50)	tert-Butyl Formate	9.782	59	59789	45.51	ug/L	#	96
51)	bromochloromethane	9.667	128	48248	51.29	ug/L	#	81
52)	tetrahydrofuran	9.714	42	22512	40.57	ug/L		93
53)	chloroform	9.751	83	154985	51.50	ug/L		98
56)	freon 113	6.482	151	70772	56.96	ug/L		98
57)	methacrylonitrile	9.599	41	38749	41.88	ug/L		96
58)	1,1,1-trichloroethane	10.054	97	125570	52.92	ug/L		96
59)	cyclohexane	10.138	84	91760	39.02	ug/L		93
61)	iso-octane	10.619	57	157247	23.76	ug/L		94
64)	epichlorohydrin	12.654	57	35648	274.61	ug/L		98
65)	n-butyl alcohol	11.315	56	114094	2432.92	ug/L		96
66)	carbon tetrachloride	10.305	117	113444	48.64	ug/L		98
67)	1,1-dichloropropene	10.279	75	109128	46.19	ug/L		97
68)	hexane	8.062	57	90907	35.86	ug/L		95
69)	benzene	10.614	78	335328	48.16	ug/L		99
70)	tert-amyl methyl ether	10.677	73	246190	47.01	ug/L		94
71)	heptane	10.860	57	39104	26.23	ug/L		98
72)	isopropyl acetate	10.551	43	150280	44.05	ug/L		98
73)	1,2-dichloroethane	10.645	62	95653	45.28	ug/L		98
74)	trichloroethene	11.555	130	95444	50.77	ug/L		97
77)	2-nitropropane	12.612	46	1193	45.44	ug/L	#	56
78)	2-chloroethyl vinyl ether	12.654	63	184822	279.29	ug/L		96
79)	methyl methacrylate	11.948	69	47626	45.44	ug/L	#	78
80)	1,2-dichloropropane	11.906	63	88477	45.23	ug/L		99
81)	dibromomethane	12.115	93	49311	45.74	ug/L		95
82)	methylcyclohexane	11.833	83	108369	37.67	ug/L		97
83)	bromodichloromethane	12.303	83	113983	47.58	ug/L		100
84)	cis-1,3-dichloropropene	12.926	75	143423	46.88	ug/L		96
86)	4-methyl-2-pentanone	13.077	58	27415	44.41	ug/L		90
87)	toluene	13.407	92	209752	47.16	ug/L		98
88)	3-methyl-1-butanol	13.130	55	68617	997.27	ug/L		95
89)	trans-1,3-dichloropropene	13.700	75	122451	45.67	ug/L		99
90)	ethyl methacrylate	13.710	69	88064	44.05	ug/L		93
91)	1,1,2-trichloroethane	13.982	83	60982	47.09	ug/L		98
92)	2-hexanone	14.238	58	27567	47.59	ug/L		90
94)	3,3-Dimethyl-1-butanol	14.484	57	71305	433.11	ug/L		97
95)	tetrachloroethene	14.191	164	86999	44.54	ug/L		99
96)	1,3-dichloropropane	14.223	76	112917	38.89	ug/L		93
97)	butyl acetate	14.354	56	48155	39.30	ug/L		92
98)	dibromochloromethane	14.568	129	93697	42.41	ug/L		100
99)	1,2-dibromoethane	14.756	107	73204	42.17	ug/L		100
101)	chlorobenzene	15.379	112	227562	39.96	ug/L		99
102)	1,1,1,2-tetrachloroethane	15.468	131	88343	41.73	ug/L		96
103)	ethylbenzene	15.468	91	357047	38.64	ug/L		99
104)	m,p-xylene	15.609	106	283968	77.86	ug/L		99
105)	o-xylene	16.153	106	144429	39.31	ug/L		99
106)	styrene	16.174	104	231384	36.76	ug/L		96
107)	bromoform	16.503	173	64286	39.87	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : x121651.d
Acq On : 12 Dec 2011 4:15 pm
Operator : tamikag
Sample : JA94019-5MS
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 13:38:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

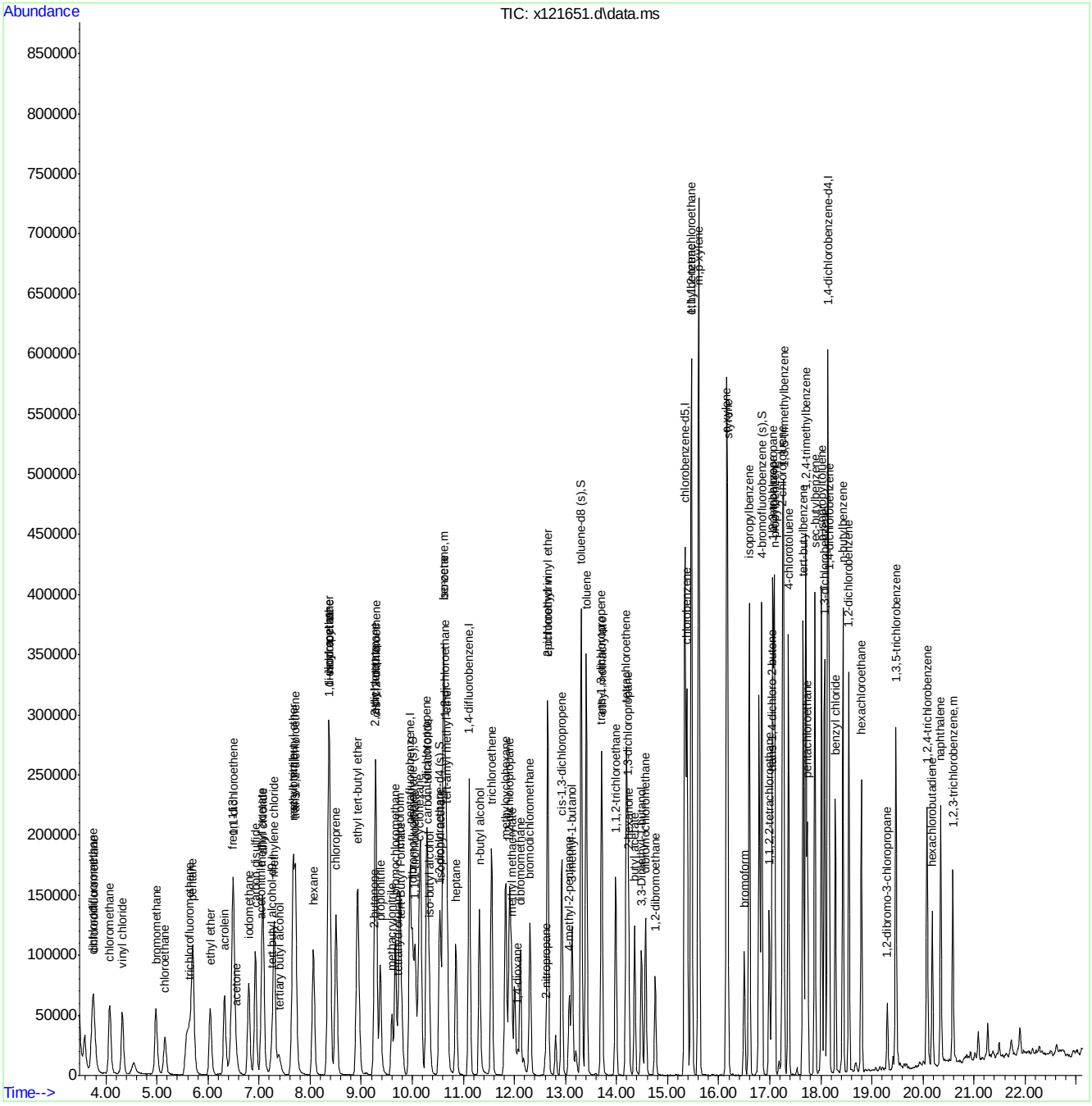
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.597	105	329969	35.25 ug/L	99
111) bromobenzene	17.058	156	97330	37.25 ug/L	97
112) 1,1,2,2-tetrachloroethane	16.990	83	83848	36.87 ug/L	97
113) trans-1,4-dichloro-2-b...	17.042	53	20589	36.84 ug/L #	78
114) 1,2,3-trichloropropane	17.063	110	22316	39.63 ug/L #	79
115) n-propylbenzene	17.094	91	362880	32.96 ug/L	99
117) 2-chlorotoluene	17.251	126	83625	33.97 ug/L	94
118) 4-chlorotoluene	17.366	91	232944	33.35 ug/L	99
119) 1,3,5-trimethylbenzene	17.272	105	258783	33.25 ug/L	99
120) tert-butylbenzene	17.654	119	226551	32.51 ug/L	97
121) pentachloroethane	17.738	167	50987	28.70 ug/L	98
122) 1,2,4-trimethylbenzene	17.706	105	270552	34.02 ug/L	98
124) sec-butylbenzene	17.884	105	313493	30.25 ug/L	99
125) 1,3-dichlorobenzene	18.072	146	159821	32.16 ug/L	99
126) p-isopropyltoluene	18.015	119	263106	30.32 ug/L	99
127) 1,4-dichlorobenzene	18.161	146	159314	31.47 ug/L	99
128) 1,2-dichlorobenzene	18.548	146	149259	31.49 ug/L	98
129) benzyl chloride	18.287	91	173802	40.63 ug/L	99
131) n-butylbenzene	18.433	92	125852	27.23 ug/L	98
133) 1,2-dibromo-3-chloropr...	19.301	75	13304	32.92 ug/L	89
134) 1,3,5-trichlorobenzene	19.469	180	105134	24.00 ug/L	98
135) hexachlorobutadiene	20.185	225	34891	15.90 ug/L	97
136) naphthalene	20.347	128	173343	28.74 ug/L	98
137) 1,2,4-trichlorobenzene	20.081	180	82208	23.33 ug/L	98
138) 1,2,3-trichlorobenzene	20.588	180	66611	21.40 ug/L	99
139) hexachloroethane	18.794	201	54471	31.01 ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : x121651.d
Acq On : 12 Dec 2011 4:15 pm
Operator : tamikag
Sample : JA94019-5MS
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 13:38:23 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121652.D
Acq On : 12 Dec 2011 4:45 pm
Operator : tamikag
Sample : JA94019-5MSD
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 13 13:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.256	65	76705	500.00	ug/L	-0.03
5) pentafluorobenzene	9.955	168	204359	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.116	114	304654	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.337	117	315689	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.135	152	154902	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	9.997	113	93598	56.73	ug/L	-0.03
Spiked Amount 50.000 Range 67 - 131 Recovery = 113.46%						
55) 1,2-dichloroethane-d4 (s)	10.530	65	78883	47.62	ug/L	-0.02
Spiked Amount 50.000 Range 66 - 130 Recovery = 95.24%						
85) toluene-d8 (s)	13.307	98	360151	57.09	ug/L	-0.03
Spiked Amount 50.000 Range 76 - 125 Recovery = 114.18%						
110) 4-bromofluorobenzene (s)	16.843	95	141480	51.86	ug/L	-0.02
Spiked Amount 50.000 Range 53 - 142 Recovery = 103.72%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.392	59	41803	207.35	ug/L	92
4) 1,4-dioxane	12.068	88	20857	1093.22	ug/L #	95
11) chlorodifluoromethane	3.762	51	85312	52.94	ug/L	97
12) dichlorodifluoromethane	3.741	85	98936	40.94	ug/L	99
15) chloromethane	4.076	50	108388	37.98	ug/L	98
16) vinyl chloride	4.322	62	95823	41.81	ug/L	94
18) bromomethane	4.976	94	64168	44.99	ug/L	99
19) chloroethane	5.159	64	52865	45.39	ug/L	96
21) trichlorofluoromethane	5.629	101	112071	42.42	ug/L	99
22) pentane	5.703	43	106164	35.28	ug/L	98
23) ethyl ether	6.043	74	40653	43.52	ug/L	97
27) acrolein	6.325	56	108923	381.62	ug/L #	99
28) 1,1-dichloroethene	6.503	96	64635	45.47	ug/L	94
29) acetone	6.566	58	5787	51.59	ug/L	96
30) allyl chloride	7.078	76	43031	42.56	ug/L #	88
31) acetonitrile	7.052	40	55600	406.01	ug/L	88
32) iodomethane	6.796	142	142725	45.43	ug/L	98
33) iso-butyl alcohol	10.337	43	33739	457.52	ug/L	97
34) carbon disulfide	6.932	76	206020	37.96	ug/L	98
35) methylene chloride	7.298	84	80168	44.28	ug/L	90
36) methyl acetate	7.068	43	64208	53.25	ug/L	96
37) methyl tert butyl ether	7.674	73	202628	46.11	ug/L	98
38) trans-1,2-dichloroethene	7.716	96	72882	44.53	ug/L	92
39) di-isopropyl ether	8.365	45	288089	42.32	ug/L	77
40) 2-butanone	9.254	72	7664	48.62	ug/L	97
41) 1,1-dichloroethane	8.380	63	137311	44.38	ug/L	99
42) chloroprene	8.511	53	110572	42.86	ug/L	96
43) acrylonitrile	7.669	53	109454	213.33	ug/L	97
44) vinyl acetate	8.375	86	7749	32.11	ug/L	92
45) ethyl tert-butyl ether	8.935	59	258189	45.63	ug/L	97
46) ethyl acetate	9.291	70	7314	46.63	ug/L	62
47) 2,2-dichloropropane	9.285	77	106469	44.28	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121652.D
Acq On : 12 Dec 2011 4:45 pm
Operator : tamikag
Sample : JA94019-5MSD
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 13 13:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.285	96	84707	44.87	ug/L		91
49)	propionitrile	9.374	54	88708	441.86	ug/L		90
50)	tert-Butyl Formate	9.793	59	49151	37.32	ug/L	#	97
51)	bromochloromethane	9.667	128	43794	46.44	ug/L	#	83
52)	tetrahydrofuran	9.719	42	21354	38.39	ug/L		93
53)	chloroform	9.751	83	136722	45.32	ug/L		98
56)	freon 113	6.482	151	56375	45.26	ug/L		99
57)	methacrylonitrile	9.604	41	37253	40.17	ug/L		94
58)	1,1,1-trichloroethane	10.054	97	105323	44.28	ug/L		97
59)	cyclohexane	10.143	84	68301	28.98	ug/L		82
61)	iso-octane	10.619	57	103058	15.54	ug/L	#	71
64)	epichlorohydrin	12.654	57	31007	238.11	ug/L		94
65)	n-butyl alcohol	11.315	56	111015	2359.87	ug/L		96
66)	carbon tetrachloride	10.310	117	93039	39.77	ug/L		98
67)	1,1-dichloropropene	10.279	75	88711	37.43	ug/L		98
68)	hexane	8.061	57	63516	24.98	ug/L		98
69)	benzene	10.614	78	292016	41.81	ug/L		97
70)	tert-amyl methyl ether	10.671	73	229321	43.65	ug/L		94
71)	heptane	10.854	57	25316	16.93	ug/L		96
72)	isopropyl acetate	10.556	43	135748	39.66	ug/L		97
73)	1,2-dichloroethane	10.645	62	88066	41.55	ug/L		100
74)	trichloroethene	11.555	130	78929	41.86	ug/L		97
77)	2-nitropropane	12.643	46	399	15.15	ug/L	#	1
78)	2-chloroethyl vinyl ether	12.654	63	159133	239.72	ug/L		97
79)	methyl methacrylate	11.948	69	46144	43.89	ug/L		82
80)	1,2-dichloropropane	11.906	63	80318	40.93	ug/L		98
81)	dibromomethane	12.115	93	45254	41.85	ug/L		96
82)	methylcyclohexane	11.827	83	77848	26.97	ug/L		97
83)	bromodichloromethane	12.303	83	102441	42.62	ug/L		99
84)	cis-1,3-dichloropropene	12.931	75	126860	41.34	ug/L		94
86)	4-methyl-2-pentanone	13.072	58	26662	43.05	ug/L		87
87)	toluene	13.407	92	174123	39.03	ug/L		99
88)	3-methyl-1-butanol	13.130	55	66749	967.09	ug/L		95
89)	trans-1,3-dichloropropene	13.700	75	108588	40.37	ug/L		98
90)	ethyl methacrylate	13.715	69	81624	40.70	ug/L		94
91)	1,1,2-trichloroethane	13.987	83	55455	42.69	ug/L		99
92)	2-hexanone	14.238	58	24314	41.84	ug/L		98
94)	3,3-Dimethyl-1-butanol	14.489	57	68503	417.86	ug/L		98
95)	tetrachloroethene	14.191	164	65361	33.60	ug/L		98
96)	1,3-dichloropropane	14.228	76	102644	35.51	ug/L		94
97)	butyl acetate	14.353	56	42957	35.21	ug/L		93
98)	dibromochloromethane	14.573	129	82841	37.66	ug/L		98
99)	1,2-dibromoethane	14.756	107	66332	38.37	ug/L		100
101)	chlorobenzene	15.379	112	185639	32.73	ug/L		98
102)	1,1,1,2-tetrachloroethane	15.467	131	74957	35.56	ug/L		98
103)	ethylbenzene	15.467	91	280228	30.46	ug/L		99
104)	m,p-xylene	15.609	106	221422	60.97	ug/L		97
105)	o-xylene	16.158	106	112509	30.75	ug/L		98
106)	styrene	16.174	104	184641	29.46	ug/L		96
107)	bromoform	16.503	173	55946	34.85	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121652.D
Acq On : 12 Dec 2011 4:45 pm
Operator : tamikag
Sample : JA94019-5MSD
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 13 13:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

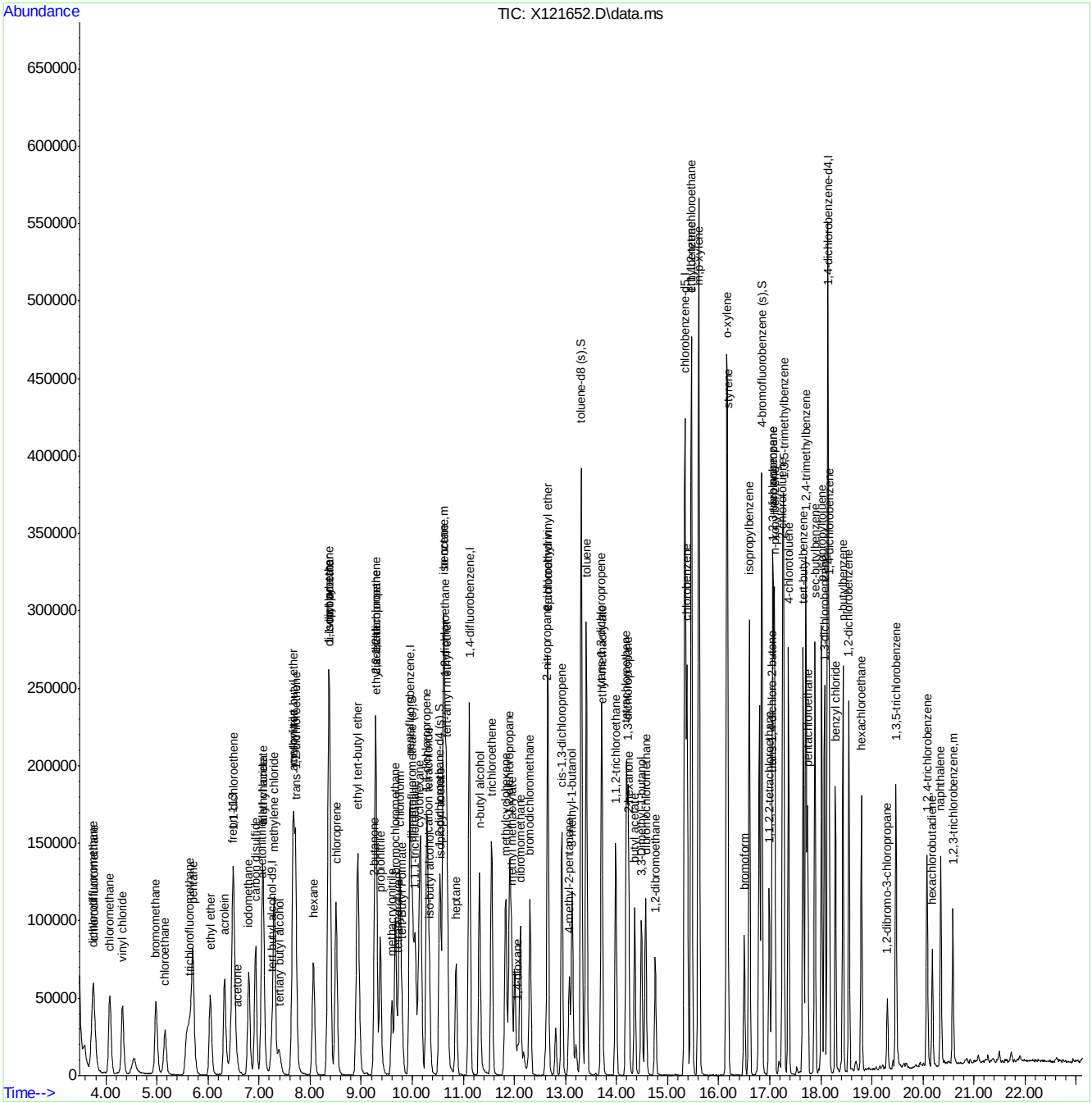
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.597	105	250841	28.23 ug/L	98
111) bromobenzene	17.063	156	76251	30.74 ug/L	97
112) 1,1,2,2-tetrachloroethane	16.989	83	73265	33.94 ug/L	99
113) trans-1,4-dichloro-2-b...	17.042	53	18075	34.07 ug/L	88
114) 1,2,3-trichloropropane	17.068	110	20202	37.79 ug/L #	48
115) n-propylbenzene	17.094	91	269245	25.76 ug/L	99
117) 2-chlorotoluene	17.251	126	63212	27.05 ug/L	96
118) 4-chlorotoluene	17.366	91	171173	25.82 ug/L	97
119) 1,3,5-trimethylbenzene	17.272	105	190450	25.78 ug/L	99
120) tert-butylbenzene	17.654	119	164753	24.90 ug/L	98
121) pentachloroethane	17.743	167	43016	25.51 ug/L	97
122) 1,2,4-trimethylbenzene	17.706	105	199284	26.39 ug/L	99
124) sec-butylbenzene	17.884	105	222170	22.58 ug/L	99
125) 1,3-dichlorobenzene	18.077	146	116169	24.62 ug/L	98
126) p-isopropyltoluene	18.015	119	186181	22.60 ug/L	98
127) 1,4-dichlorobenzene	18.161	146	115620	24.06 ug/L	98
128) 1,2-dichlorobenzene	18.548	146	107771	23.95 ug/L	99
129) benzyl chloride	18.287	91	142310	35.04 ug/L	99
131) n-butylbenzene	18.433	92	85583	19.51 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.301	75	10785	28.11 ug/L	84
134) 1,3,5-trichlorobenzene	19.469	180	69220	16.65 ug/L	99
135) hexachlorobutadiene	20.185	225	20690	9.93 ug/L	95
136) naphthalene	20.347	128	119223	20.82 ug/L	99
137) 1,2,4-trichlorobenzene	20.081	180	52018	15.55 ug/L	96
138) 1,2,3-trichlorobenzene	20.588	180	40517	13.71 ug/L	98
139) hexachloroethane	18.794	201	38267	22.95 ug/L	99

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

Quantitation Report (QT Reviewed)

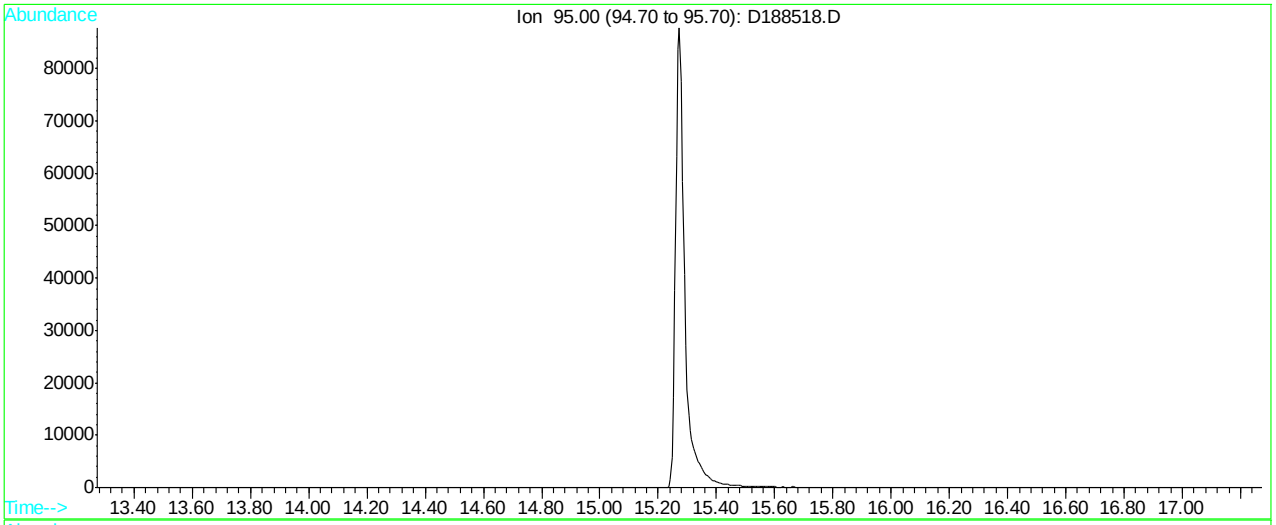
Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121652.D
Acq On : 12 Dec 2011 4:45 pm
Operator : tamikag
Sample : JA94019-5MSD
Misc : MS22755,VX5178,4.6,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 13 13:36:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\HPCHEM\1\DATA\D188518.D Vial: 1
Acq On : 28 Oct 2011 8:53 am Operator: EmilyT
Sample : BFB Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B



AutoFind: Scans 2195, 2196, 2197; Background Corrected with Scan 2186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	14760	PASS
75	95	30	60	47.5	39411	PASS
95	95	100	100	100.0	83021	PASS
96	95	5	9	6.7	5575	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.2	67379	PASS
175	174	5	9	7.5	5024	PASS
176	174	95	101	97.3	65571	PASS
177	176	5	9	6.5	4276	PASS

D188518.D MD7671.M Fri Oct 28 16:22:34 2011 RPT1

Average of 15.268 to 15.279 min.: D188518.D
BFB
Modified:subtracted

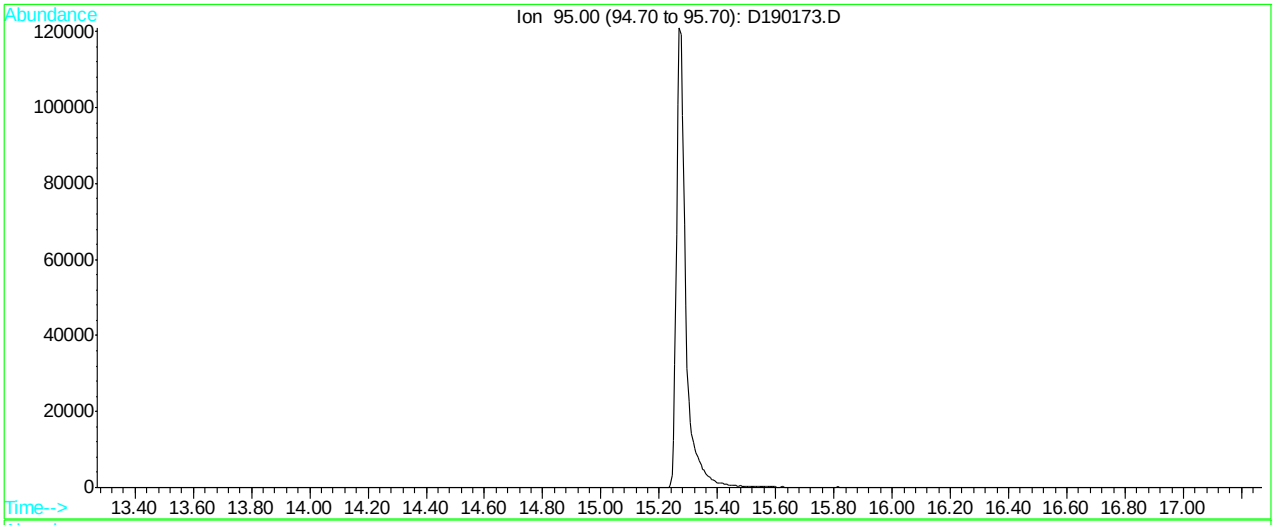
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	694	50.00	14760	64.00	256	77.90	318
37.00	3709	51.00	4651	67.05	190	78.90	1741
38.00	3504	51.95	206	68.00	7642	79.90	488
39.00	1339	54.95	223	69.00	7592	80.90	1730
40.00	89	56.00	1093	70.00	579	81.85	359
42.90	38	57.00	1931	71.95	431	86.90	3339
44.00	362	57.90	47	73.00	3358	87.90	3155
45.00	647	60.00	696	74.00	12656	90.90	230
47.00	1011	61.00	3342	75.00	39411	91.95	2033
48.00	453	62.00	3424	76.00	3413	92.95	2950
49.00	3143	63.00	2559	76.90	470	94.00	8850

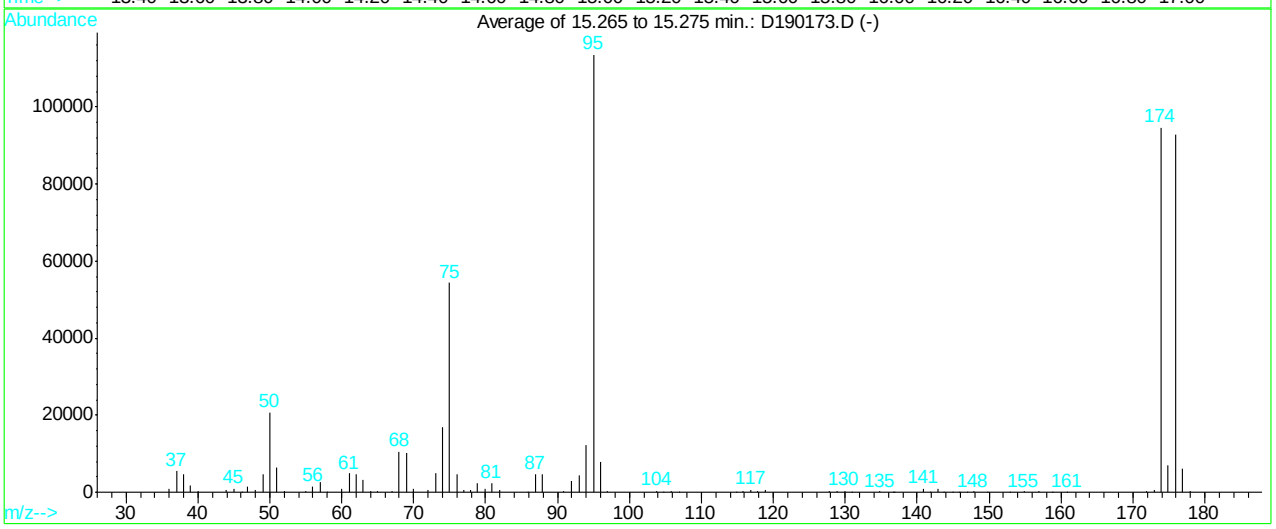
Average of 15.268 to 15.279 min.: D188518.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	83021	127.90	221	147.80	202		
96.00	5575	128.80	46	149.90	37		
96.95	160	128.95	94	154.90	196		
103.90	274	129.90	248	156.90	157		
104.90	77	130.85	80	173.90	67379		
105.85	274	134.80	144	174.90	5024		
106.90	34	136.90	74	175.90	65571		
115.85	247	140.85	695	176.90	4276		
116.85	463	141.85	71	177.85	125		
117.85	262	142.80	676	206.90	34		
118.85	375	145.80	87				

SW-846 Method 8260

Data File : C:\HPCHEM\1\DATA\D190173.D Vial: 1
Acq On : 10 Dec 2011 9:22 am Operator: EmilyT
Sample : bfb Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B





AutoFind: Scans 2194, 2195, 2196; Background Corrected with Scan 2185

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	20661	PASS
75	95	30	60	47.8	54299	PASS
95	95	100	100	100.0	113595	PASS
96	95	5	9	7.0	7938	PASS
173	174	0.00	2	0.7	687	PASS
174	95	50	120	83.3	94592	PASS
175	174	5	9	7.5	7096	PASS
176	174	95	101	98.1	92816	PASS
177	176	5	9	6.6	6126	PASS

D190173.D MD7671.M Mon Dec 12 16:14:05 2011 RPT1

Average of 15.265 to 15.275 min.: D190173.D
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	976	50.00	20661	64.00	378	76.95	722
37.00	5404	51.00	6426	64.95	220	77.90	466
38.00	4730	51.95	297	66.95	199	78.85	2313
39.00	1722	54.95	239	68.00	10485	79.90	786
39.95	195	55.95	1470	69.00	10319	80.85	2358
43.95	479	57.00	2614	69.95	882	81.90	536
44.95	909	58.00	87	72.00	582	85.90	46
46.10	35	59.95	969	73.00	4852	86.90	4779
46.95	1515	61.00	4813	74.00	16894	87.90	4645
48.00	602	62.00	4808	75.00	54299	90.90	316
49.00	4541	63.00	3347	76.00	4742	91.95	2797

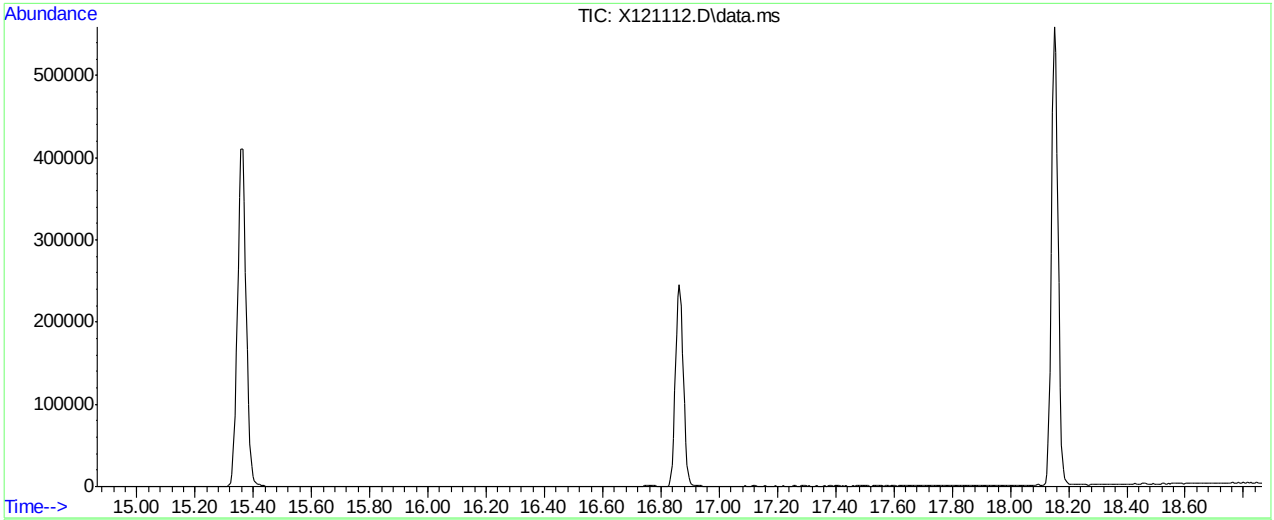
Average of 15.265 to 15.275 min.: D190173.D
bfb
Modified:subtracted

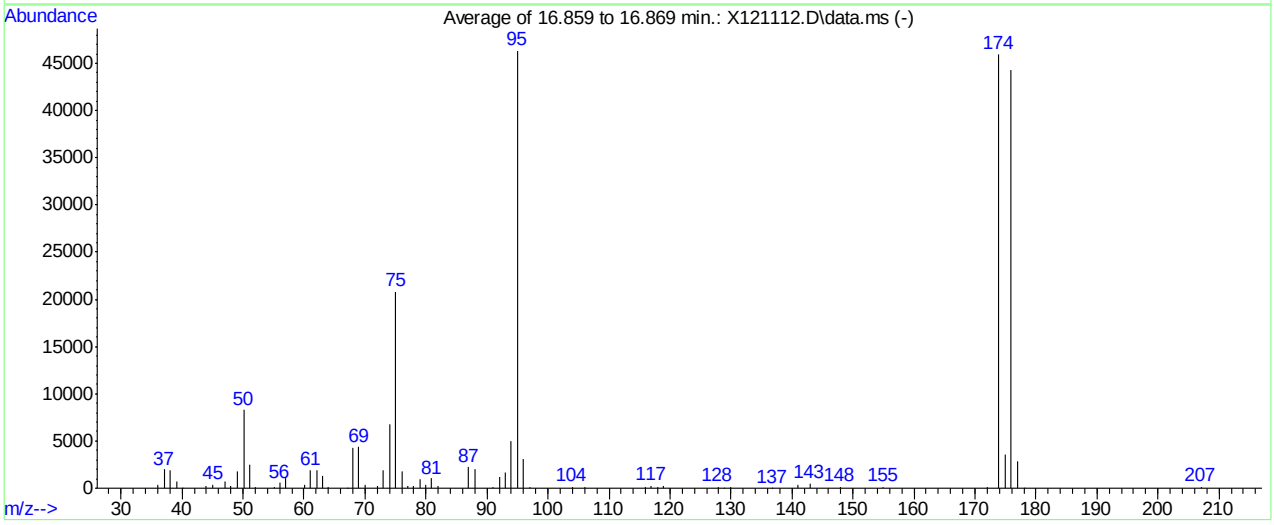
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	4236	116.90	589	141.75	88	158.85	82
94.00	12116	117.85	331	142.90	837	160.85	87
95.00	113595	118.85	479	143.70	35	171.90	355
96.00	7938	127.80	348	144.90	88	172.95	687
96.95	278	128.85	183	145.80	126	173.90	94592
103.85	433	129.90	375	146.90	43	174.90	7096
104.75	119	130.85	134	147.85	261	175.90	92816
105.85	365	134.85	179	149.70	45	176.90	6126
106.85	81	136.70	36	152.85	76	177.95	172
114.90	51	136.85	99	154.90	272		
115.85	297	140.90	886	156.85	163		

BFB

Data File : C:\msdchem\1\DATA\X\vx5154final\X121112.D Vial: 1
Acq On : 28 Nov 2011 1:26 pm Operator: tamikag
Sample : BFB Inst : MSX
Misc : MS21975,VX5154,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2558, 2559, 2560; Background Corrected with Scan 2548

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	8271	PASS
75	95	30	60	44.8	20781	PASS
95	95	100	100	100.0	46360	PASS
96	95	5	9	6.8	3140	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.2	46008	PASS
175	174	5	9	7.7	3529	PASS
176	174	95	101	96.3	44296	PASS
177	176	5	9	6.4	2855	PASS

X121112.D MX5154.M Tue Nov 29 17:34:27 2011 ACCNJ

Average of 16.859 to 16.869 min.: X121112.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	416	51.10	2504	68.00	4283	79.95	328
37.10	2018	52.05	90	69.00	4371	80.90	1025
38.10	1914	55.10	122	70.00	316	81.90	209
39.10	691	56.00	586	72.05	229	87.00	2239
40.00	21	57.00	1081	73.00	1890	88.00	1966
44.00	253	60.05	350	74.00	6814	90.90	147
45.05	391	61.05	1922	75.00	20781	92.00	1154
47.05	755	62.05	1860	76.00	1797	93.00	1698
47.95	233	63.00	1335	76.95	274	94.00	5043
49.10	1766	64.00	102	78.00	242	95.00	46360
50.10	8271	67.00	45	78.95	930	96.00	3140

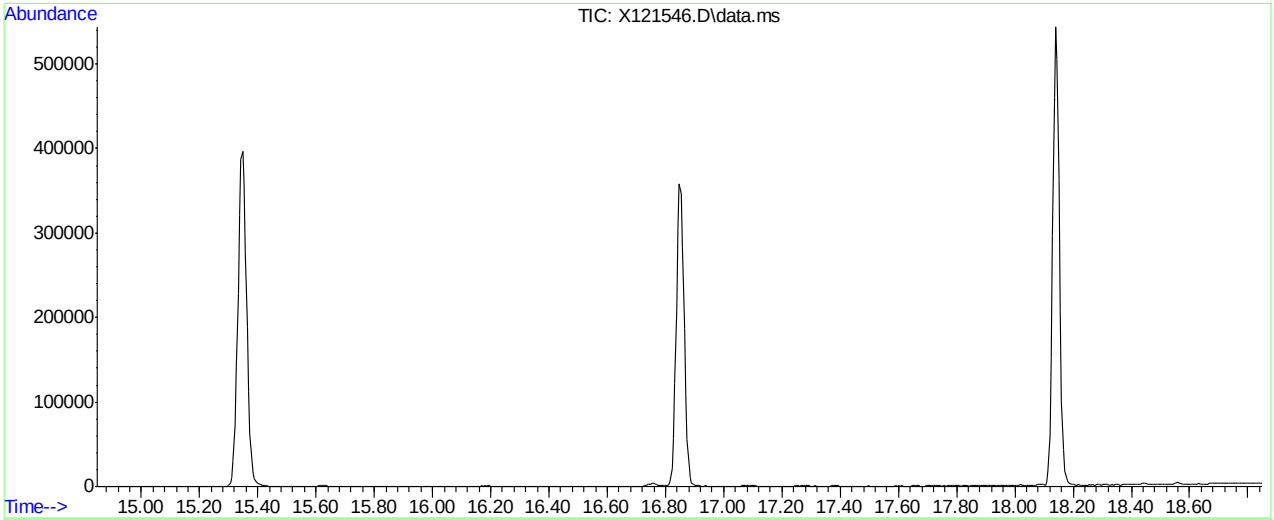
Average of 16.859 to 16.869 min.: X121112.D\data.ms
BFB
Modified:subtracted

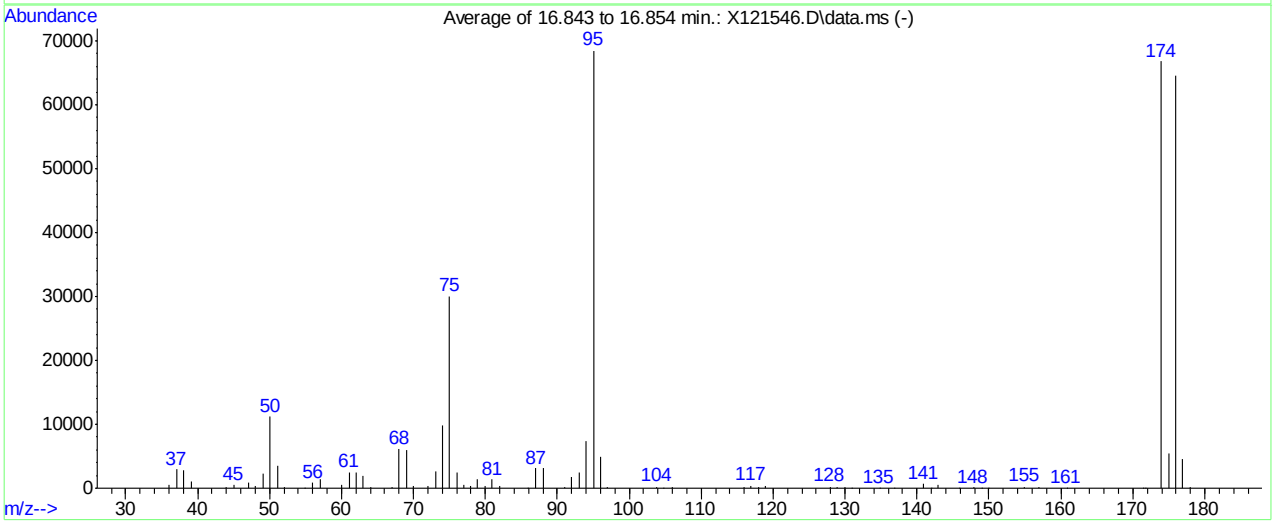
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.10	85	140.90	413				
103.95	164	142.90	479				
105.95	154	147.90	124				
115.90	161	154.95	148				
116.90	274	172.05	72				
117.90	146	173.90	46008				
118.90	204	175.00	3529				
127.90	175	175.90	44296				
128.90	35	176.90	2855				
129.90	149	178.00	39				
136.80	41	207.05	137				

BFB

Data File : C:\msdchem\1\DATA\X\VX5174\X121546.D Vial: 1
Acq On : 9 Dec 2011 8:53 am Operator: tamikag
Sample : BFB Inst : MSX
Misc : MS22716,VX5174,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2555, 2556, 2557; Background Corrected with Scan 2545

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	11211	PASS
75	95	30	60	43.9	30056	PASS
95	95	100	100	100.0	68517	PASS
96	95	5	9	7.1	4886	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	97.6	66840	PASS
175	174	5	9	8.2	5456	PASS
176	174	95	101	96.7	64608	PASS
177	176	5	9	6.9	4480	PASS

X121546.D MX5154.M Fri Dec 09 14:00:41 2011 ACCNJ

Average of 16.843 to 16.854 min.: X121546.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	505	52.05	124	69.00	6034	80.90	1330
37.10	2904	54.95	23	70.05	414	81.95	306
38.10	2746	56.00	804	72.05	287	85.90	35
39.10	979	57.05	1477	73.05	2655	87.00	3139
44.00	253	60.00	562	74.00	9810	88.00	3084
45.05	501	61.05	2515	75.00	30056	90.95	234
47.05	876	62.05	2512	76.05	2533	92.00	1716
48.05	364	63.05	1959	76.95	465	93.00	2507
49.05	2269	64.05	136	78.00	343	94.05	7337
50.10	11211	67.05	163	78.90	1352	95.00	68517
51.10	3577	68.00	6067	79.90	399	96.05	4886

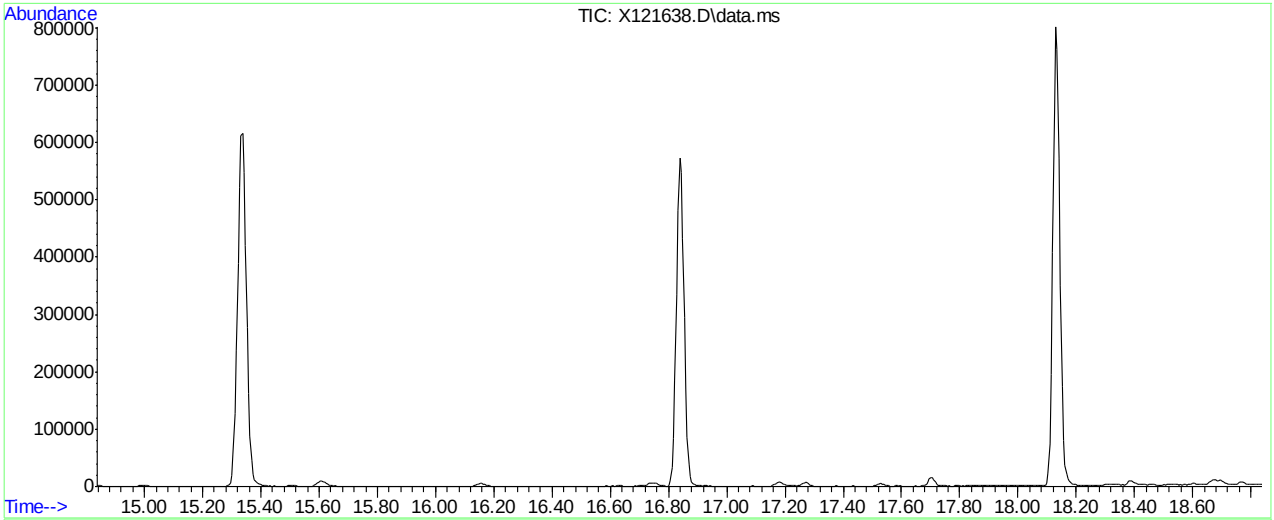
Average of 16.843 to 16.854 min.: X121546.D\data.ms
BFB
Modified:subtracted

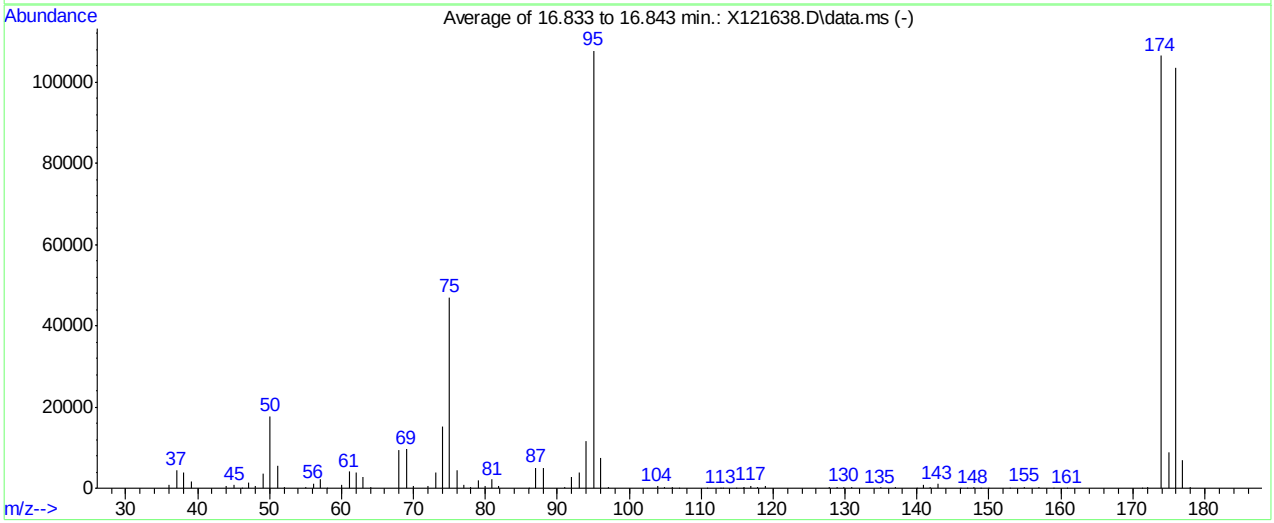
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	209	130.90	77	156.90	131		
103.85	244	134.80	76	160.80	36		
104.70	35	136.90	81	171.50	43		
105.95	221	140.90	637	171.80	37		
115.90	226	142.00	38	173.95	66840		
116.95	359	142.90	576	175.00	5456		
117.95	232	145.90	78	175.90	64608		
118.95	332	147.85	145	176.90	4480		
127.90	252	149.00	39	177.95	131		
128.90	112	149.90	41				
129.95	235	154.95	177				

BFB

Data File : C:\msdchem\1\DATA\X\VX5178\X121638.D Vial: 1
Acq On : 12 Dec 2011 8:52 am Operator: tamikag
Sample : BFB Inst : MSX
Misc : MS22489,VX5178,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX5154.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2553, 2554, 2555; Background Corrected with Scan 2543

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	17757	PASS
75	95	30	60	43.6	47024	PASS
95	95	100	100	100.0	107755	PASS
96	95	5	9	6.8	7325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.7	106397	PASS
175	174	5	9	8.3	8880	PASS
176	174	95	101	97.3	103565	PASS
177	176	5	9	6.8	7033	PASS

X121638.D MX5154.M Mon Dec 12 16:19:53 2011 ACCNJ

Average of 16.833 to 16.843 min.: X121638.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	839	51.10	5497	68.00	9531	79.95	691
37.10	4442	52.00	251	69.00	9558	80.90	2090
38.10	3837	55.05	250	70.05	699	81.90	457
39.10	1675	56.05	1203	72.00	552	86.00	84
44.00	434	57.05	2203	73.05	3884	87.00	5105
45.10	805	58.05	96	74.00	15162	88.00	4845
46.10	36	60.05	807	75.05	47024	90.95	303
47.05	1493	61.05	4097	76.05	4405	92.00	2671
48.00	627	62.05	3839	77.00	749	93.00	4008
49.10	3613	63.05	2882	77.95	422	94.05	11686
50.10	17757	64.05	323	78.95	2005	95.00	107755

Average of 16.833 to 16.843 min.: X121638.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.05	7325	116.00	225	140.90	898	159.00	108
97.05	289	116.90	575	141.85	154	160.85	88
103.90	424	117.90	321	142.90	1031	171.25	118
104.95	150	118.90	471	146.00	114	172.00	154
105.95	391	127.85	349	146.90	84	173.90	106397
106.90	45	128.95	202	147.90	254	175.00	8880
110.80	35	129.90	413	148.90	40	175.90	103565
112.70	41	130.95	156	150.00	38	176.90	7033
113.00	44	134.90	163	152.85	91	177.95	244
114.90	71	136.95	153	154.95	292		
115.80	89	139.95	91	156.95	194		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188519.D Vial: 2
Acq On : 28 Oct 2011 9:24 am Operator: EmilyT
Sample : IC7671-0.5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	201878	500.00	ug/L	0.00
4) pentafluorobenzene	9.75	168	316246	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	504103	50.00	ug/L	0.00
83) chlorobenzene-d5	13.99	117	487722	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	263941	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	9.76	113	2199	0.64	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 1.28%#			
45) 1,2-dichloroethane-d4 (s)	10.19	65	2205	0.53	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 1.06%#			
75) toluene-d8 (s)	12.40	98	7292	0.54	ug/L	0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 1.08%#			
99) 4-bromofluorobenzene (s)	15.32	95	4607	0.77	ug/L	0.05
Spiked Amount 50.000	Range 53 - 142		Recovery = 1.54%#			

Target Compounds						Qvalue
3) tertiary butyl alcohol	7.63	59	1431	2.73	ug/L	54
6) chlorodifluoromethane	4.23	51	2072	0.50	ug/L	91
7) dichlorodifluoromethane	4.25	85	2110	0.45	ug/L	90
8) chloromethane	4.54	50	2557	0.51	ug/L	90
9) vinyl chloride	4.79	62	2560	0.53	ug/L	84
10) bromomethane	5.44	94	1614	0.52	ug/L	90
11) chloroethane	5.63	64	1321	0.47	ug/L	95
13) trichlorofluoromethane	6.10	101	2483	0.44	ug/L	73
14) pentane	6.24	43	3875	0.50	ug/L #	85
15) ethyl ether	6.52	74	1226	0.51	ug/L	77
16) acrolein	6.71	56	4866	5.41	ug/L	97
18) 1,1-dichloroethene	6.93	96	1961	0.52	ug/L	90
20) allyl chloride	7.41	41	6387	0.80	ug/L	91
23) iodomethane	7.16	142	2957	0.47	ug/L	86
24) iso-butyl alcohol	10.07	74	84	4.15	ug/L	50
25) carbon disulfide	7.32	76	6116	0.50	ug/L	79
26) methylene chloride	7.57	84	2243	0.52	ug/L	96
28) methyl tert butyl ether	7.97	73	6288	0.51	ug/L	95
29) trans-1,2-dichloroethene	7.99	96	2044	0.51	ug/L	74
30) di-isopropyl ether	8.57	45	6264	0.49	ug/L	94
31) ethyl tert-butyl ether	9.03	59	5898	0.48	ug/L	98
33) 1,1-dichloroethane	8.50	63	3571	0.51	ug/L	97
34) chloroprene	8.67	53	2751	0.48	ug/L	96
35) acrylonitrile	7.94	53	3233	2.03	ug/L	78
36) vinyl acetate	8.38	86	288	2.70	ug/L #	1
38) 2,2-dichloropropane	9.26	77	3001	0.50	ug/L	91
39) cis-1,2-dichloroethene	9.23	96	2205	0.52	ug/L #	76
40) propionitrile	9.28	54	3372	5.46	ug/L	69
41) bromochloromethane	9.52	128	835	0.41	ug/L #	86
42) tetrahydrofuran	9.76	72	148	0.25	ug/L #	3
43) chloroform	9.57	83	3182	0.50	ug/L	98
46) freon 113	6.93	151	1218	0.41	ug/L	78
47) methacrylonitrile	9.50	41	1812	0.77	ug/L	75

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188519.D Vial: 2
Acq On : 28 Oct 2011 9:24 am Operator: EmilyT
Sample : IC7671-0.5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	t-butyl formate	9.67	59	1503	0.42 ug/L #	54
49)	1,1,1-trichloroethane	9.87	97	2796	0.49 ug/L #	75
50)	tert-amyl methyl ether	10.39	73	6122	0.51 ug/L	97
52)	cyclohexane	10.00	84	3109	0.52 ug/L #	100
53)	tert amyl alcohol	10.17	55	408	2.28 ug/L #	2
54)	2,2,4-trimethylpentane	10.40	57	8706	0.57 ug/L	91
55)	epichlorohydrin	11.85	57	1092	2.42 ug/L	64
56)	n-butyl alcohol	10.66	56	9704	80.17 ug/L #	36
57)	carbon tetrachloride	10.11	117	2476	0.50 ug/L	93
58)	1,1-dichloropropene	10.07	75	2603	0.49 ug/L	93
59)	hexane	8.36	57	2819	0.52 ug/L	92
60)	benzene	10.32	78	7605	0.49 ug/L	92
61)	heptane	10.58	57	1695	0.58 ug/L	85
62)	isopropyl acetate	10.27	43	4071	0.55 ug/L	77
63)	1,2-dichloroethane	10.28	62	2579	0.50 ug/L	90
65)	trichloroethene	11.04	95	1977	0.50 ug/L	98
66)	2-nitropropane	11.44	43	4348	3.42 ug/L	69
67)	2-chloroethyl vinyl ether	11.84	63	5413	2.15 ug/L	93
69)	tert-amyl ethyl ether	11.25	87	2492	0.45 ug/L	88
70)	1,2-dichloropropane	11.26	63	1998	0.49 ug/L	96
71)	methylcyclohexane	11.32	83	3477	0.51 ug/L	83
72)	dibromomethane	11.40	93	1225	0.51 ug/L	77
73)	bromodichloromethane	11.54	83	2472	0.49 ug/L	93
74)	cis-1,3-dichloropropene	12.05	75	3117	0.49 ug/L	93
76)	4-methyl-2-pentanone	12.22	58	1043	0.61 ug/L #	1
77)	toluene	12.48	92	4913	0.51 ug/L	93
78)	3-methyl-1-butanol	12.23	70	353	3.01 ug/L #	1
79)	trans-1,3-dichloropropene	12.64	75	3060	0.50 ug/L	83
80)	ethyl methacrylate	12.74	69	2430	0.44 ug/L	83
81)	1,1,2-trichloroethane	12.84	83	1863	0.61 ug/L	79
84)	tetrachloroethene	13.11	166	2180	0.50 ug/L	85
85)	1,3-dichloropropane	13.05	76	3361	0.53 ug/L	98
86)	butyl acetate	13.27	56	1508	3.10 ug/L #	13
87)	3,3-dimethyl-1-butanol	13.26	57	1953	4.48 ug/L #	80
88)	dibromochloromethane	13.33	129	2045	0.48 ug/L	97
89)	1,2-dibromoethane	13.52	107	1890	0.51 ug/L	94
90)	chlorobenzene	14.03	112	6076	0.55 ug/L	97
91)	1,1,1,2-tetrachloroethane	14.09	131	2082	0.52 ug/L #	84
92)	ethylbenzene	14.13	91	10130	0.54 ug/L	87
93)	m,p-xylene	14.27	106	7831	1.05 ug/L	78
94)	o-xylene	14.72	106	3797	0.51 ug/L	90
95)	styrene	14.75	104	6748	0.53 ug/L	90
96)	bromoform	14.95	173	1677	2.33 ug/L	84
98)	isopropylbenzene	15.11	105	11213	0.60 ug/L	98
100)	bromobenzene	15.53	156	2925	0.61 ug/L	89
101)	cyclohexanone	15.24	55	2087	4.81 ug/L	90
102)	1,1,2,2-tetrachloroethane	15.35	83	4305	0.83 ug/L	93
103)	trans-1,4-dichloro-2-buten	15.45	53	641	0.43 ug/L #	1
104)	1,2,3-trichloropropane	15.44	110	1011	0.69 ug/L #	74

(#) = qualifier out of range (m) = manual integration
D188519.D MD7671.M Fri Oct 28 17:22:28 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188519.D Vial: 2
Acq On : 28 Oct 2011 9:24 am Operator: EmilyT
Sample : IC7671-0.5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

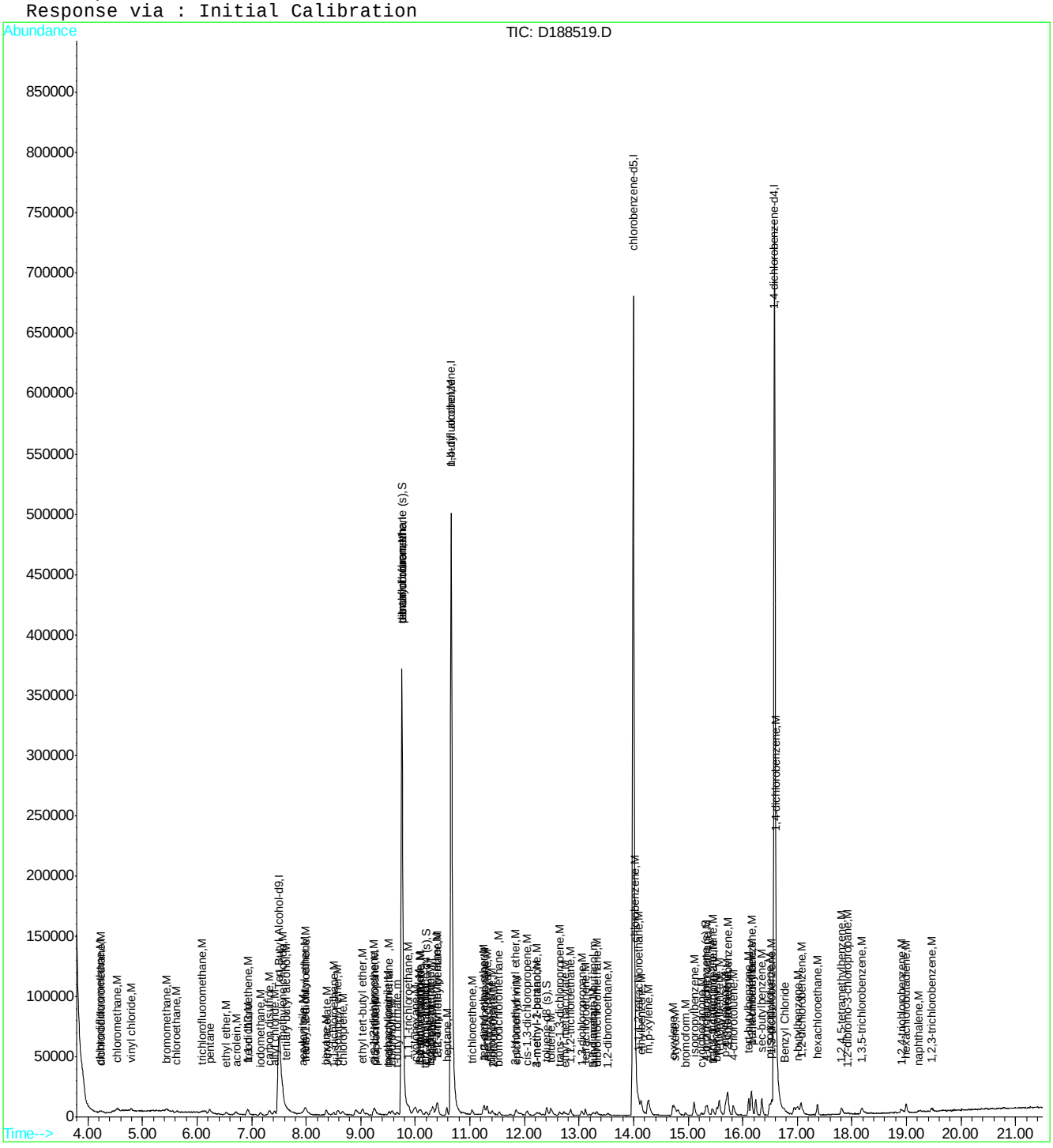
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
105)	n-propylbenzene	15.57	91	13511	0.62	ug/L		98
106)	p-ethyltoluene	15.68	105	7035	0.41	ug/L	#	93
107)	2-chlorotoluene	15.71	126	2752	0.61	ug/L	#	69
108)	4-chlorotoluene	15.83	91	9650	0.67	ug/L		93
109)	1,3,5-trimethylbenzene	15.72	105	10847	0.65	ug/L		94
110)	tert-butylbenzene	16.11	119	8852	0.60	ug/L		95
111)	pentachloroethane	16.16	167	1974	0.63	ug/L		88
112)	1,2,4-trimethylbenzene	16.16	105	10802	0.65	ug/L		87
113)	sec-butylbenzene	16.35	105	13096	0.62	ug/L		98
114)	1,3-dichlorobenzene	16.54	146	5760	0.62	ug/L		93
115)	p-isopropyltoluene	16.50	119	11187	0.65	ug/L		93
116)	1,4-dichlorobenzene	16.61	146	7424	0.73	ug/L		84
117)	Benzyl Chloride	16.77	91	4425	0.43	ug/L	#	85
119)	1,2-dichlorobenzene	17.07	146	6271	0.68	ug/L		91
120)	n-butylbenzene	17.01	92	5479	0.56	ug/L		93
121)	1,2,4,5-tetramethylbenzene	17.81	119	6610	0.40	ug/L		94
122)	1,2-dibromo-3-chloropropan	17.92	75	568	0.65	ug/L	#	34
123)	1,3,5-trichlorobenzene	18.18	180	4421	0.60	ug/L		85
124)	1,2,4-trichlorobenzene	18.91	180	2988	0.76	ug/L		78
125)	hexachlorobutadiene	19.00	225	2217	0.62	ug/L	#	61
126)	naphthalene	19.22	128	5773	0.53	ug/L		69
127)	1,2,3-trichlorobenzene	19.46	180	2221	1.52	ug/L	#	66
128)	hexachloroethane	17.37	119	2143	0.69	ug/L		84

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188519.D Vial: 2
Acq On : 28 Oct 2011 9:24 am Operator: EmilyT
Sample : IC7671-0.5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:29 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:18:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188520.D Vial: 3
Acq On : 28 Oct 2011 9:53 am Operator: EmilyT
Sample : IC7671-1 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:33 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	193208	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	319834	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	506155	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	495178	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	265939	50.00 ug/L	0.00

System Monitoring Compounds					
44) dibromofluoromethane (s)	9.77	113	3674	1.05 ug/L	0.02
Spiked Amount 50.000	Range 67 - 131		Recovery	= 2.10%#	
45) 1,2-dichloroethane-d4 (s)	10.19	65	4239	1.01 ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery	= 2.02%#	
75) toluene-d8 (s)	12.40	98	14235	1.05 ug/L	0.03
Spiked Amount 50.000	Range 76 - 125		Recovery	= 2.10%#	
99) 4-bromofluorobenzene (s)	15.32	95	6937	1.15 ug/L	0.05
Spiked Amount 50.000	Range 53 - 142		Recovery	= 2.30%#	

Target Compounds					Qvalue
3) tertiary butyl alcohol	7.63	59	2621	5.22 ug/L #	37
6) chlorodifluoromethane	4.23	51	4144	1.00 ug/L	98
7) dichlorodifluoromethane	4.23	85	4457	0.94 ug/L	92
8) chloromethane	4.54	50	4981	0.99 ug/L	96
9) vinyl chloride	4.79	62	4591	0.94 ug/L	93
10) bromomethane	5.45	94	3219	1.03 ug/L	84
11) chloroethane	5.62	64	2843	1.00 ug/L	96
13) trichlorofluoromethane	6.13	101	5201	0.92 ug/L	89
14) pentane	6.24	43	8535	1.08 ug/L	91
15) ethyl ether	6.52	74	2050	0.85 ug/L	77
16) acrolein	6.71	56	9814	10.79 ug/L	98
18) 1,1-dichloroethene	6.93	96	3658	0.96 ug/L	87
20) allyl chloride	7.42	41	10389	1.29 ug/L	93
21) acetonitrile	7.30	40	2058	8.59 ug/L	92
23) iodomethane	7.17	142	5453	0.86 ug/L	91
24) iso-butyl alcohol	10.05	74	71	3.46 ug/L	50
25) carbon disulfide	7.32	76	10999	0.90 ug/L	92
26) methylene chloride	7.56	84	4178	0.95 ug/L	94
28) methyl tert butyl ether	7.97	73	10795	0.87 ug/L	89
29) trans-1,2-dichloroethene	7.99	96	3705	0.92 ug/L	88
30) di-isopropyl ether	8.58	45	11983	0.92 ug/L	100
31) ethyl tert-butyl ether	9.03	59	11624	0.93 ug/L	97
33) 1,1-dichloroethane	8.51	63	6294	0.89 ug/L	95
34) chloroprene	8.67	53	5134	0.88 ug/L	87
35) acrylonitrile	7.89	53	6601	4.09 ug/L	84
36) vinyl acetate	8.37	86	804	3.24 ug/L #	1
38) 2,2-dichloropropane	9.25	77	5668	0.94 ug/L	99
39) cis-1,2-dichloroethene	9.23	96	3778	0.87 ug/L	86
40) propionitrile	9.26	54	4607	7.38 ug/L	80
41) bromochloromethane	9.52	128	1669	0.81 ug/L	97
42) tetrahydrofuran	9.62	72	202	0.34 ug/L #	1
43) chloroform	9.57	83	5529	0.85 ug/L	96
46) freon 113	6.92	151	2518	0.84 ug/L	96

(#) = qualifier out of range (m) = manual integration
D188520.D MD7671.M Fri Oct 28 17:22:57 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188520.D Vial: 3
Acq On : 28 Oct 2011 9:53 am Operator: EmilyT
Sample : IC7671-1 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:33 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	methacrylonitrile	9.50	41	2464	1.04 ug/L	73
48)	t-butyl formate	9.67	59	3062	0.85 ug/L #	53
49)	1,1,1-trichloroethane	9.88	97	4989	0.86 ug/L	76
50)	tert-amyl methyl ether	10.38	73	11657	0.97 ug/L	95
52)	cyclohexane	10.02	84	5817	0.96 ug/L #	100
53)	tert amyl alcohol	10.19	55	1102	6.13 ug/L #	17
54)	2,2,4-trimethylpentane	10.40	57	14534	0.95 ug/L	94
55)	epichlorohydrin	11.92	57	2437	5.37 ug/L	87
56)	n-butyl alcohol	10.85	56	6039	49.69 ug/L	89
57)	carbon tetrachloride	10.11	117	4337	0.87 ug/L	88
58)	1,1-dichloropropene	10.06	75	5012	0.94 ug/L	90
59)	hexane	8.37	57	5205	0.96 ug/L	95
60)	benzene	10.32	78	13666	0.88 ug/L	97
61)	heptane	10.58	57	2813	0.95 ug/L	94
62)	isopropyl acetate	10.26	43	5592	0.76 ug/L	98
63)	1,2-dichloroethane	10.27	62	4322	0.83 ug/L	99
65)	trichloroethene	11.04	95	3515	0.89 ug/L	96
66)	2-nitropropane	11.74	43	1106	0.87 ug/L	80
67)	2-chloroethyl vinyl ether	11.83	63	10635	4.21 ug/L	97
68)	methyl methacrylate	11.38	100	532	0.45 ug/L #	1
69)	tert-amyl ethyl ether	11.25	87	4917	0.88 ug/L	97
70)	1,2-dichloropropane	11.26	63	3538	0.87 ug/L	94
71)	methylcyclohexane	11.31	83	6453	0.95 ug/L	97
72)	dibromomethane	11.41	93	2093	0.86 ug/L	75
73)	bromodichloromethane	11.53	83	4152	0.82 ug/L	97
74)	cis-1,3-dichloropropene	12.04	75	5538	0.86 ug/L	93
77)	toluene	12.48	92	8200	0.85 ug/L	96
78)	3-methyl-1-butanol	12.19	70	1968	16.70 ug/L #	52
79)	trans-1,3-dichloropropene	12.63	75	4943	0.80 ug/L	97
80)	ethyl methacrylate	12.73	69	3993	0.72 ug/L	93
81)	1,1,2-trichloroethane	12.84	83	2469	0.81 ug/L	92
82)	2-hexanone	13.19	58	760	0.46 ug/L #	54
84)	tetrachloroethene	13.11	166	3633	0.83 ug/L	96
85)	1,3-dichloropropane	13.05	76	5132	0.80 ug/L	97
86)	butyl acetate	13.24	56	2827	3.52 ug/L #	39
87)	3,3-dimethyl-1-butanol	13.24	57	3952	8.92 ug/L	84
88)	dibromochloromethane	13.33	129	3072	0.71 ug/L	92
89)	1,2-dibromoethane	13.51	107	2962	0.78 ug/L	94
90)	chlorobenzene	14.03	112	9514	0.86 ug/L	97
91)	1,1,1,2-tetrachloroethane	14.09	131	3470	0.86 ug/L	84
92)	ethylbenzene	14.13	91	16400	0.86 ug/L	95
93)	m,p-xylene	14.26	106	13109	1.73 ug/L	87
94)	o-xylene	14.71	106	6269	0.83 ug/L	100
95)	styrene	14.75	104	10198	0.78 ug/L	93
96)	bromoform	14.95	173	2082	2.43 ug/L	83
98)	isopropylbenzene	15.10	105	17027	0.90 ug/L	97
100)	bromobenzene	15.52	156	4151	0.85 ug/L	92
101)	cyclohexanone	15.24	55	3442	7.87 ug/L	91
102)	1,1,2,2-tetrachloroethane	15.34	83	4635	0.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
D188520.D MD7671.M Fri Oct 28 17:22:58 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188520.D Vial: 3
Acq On : 28 Oct 2011 9:53 am Operator: EmilyT
Sample : IC7671-1 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:33 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

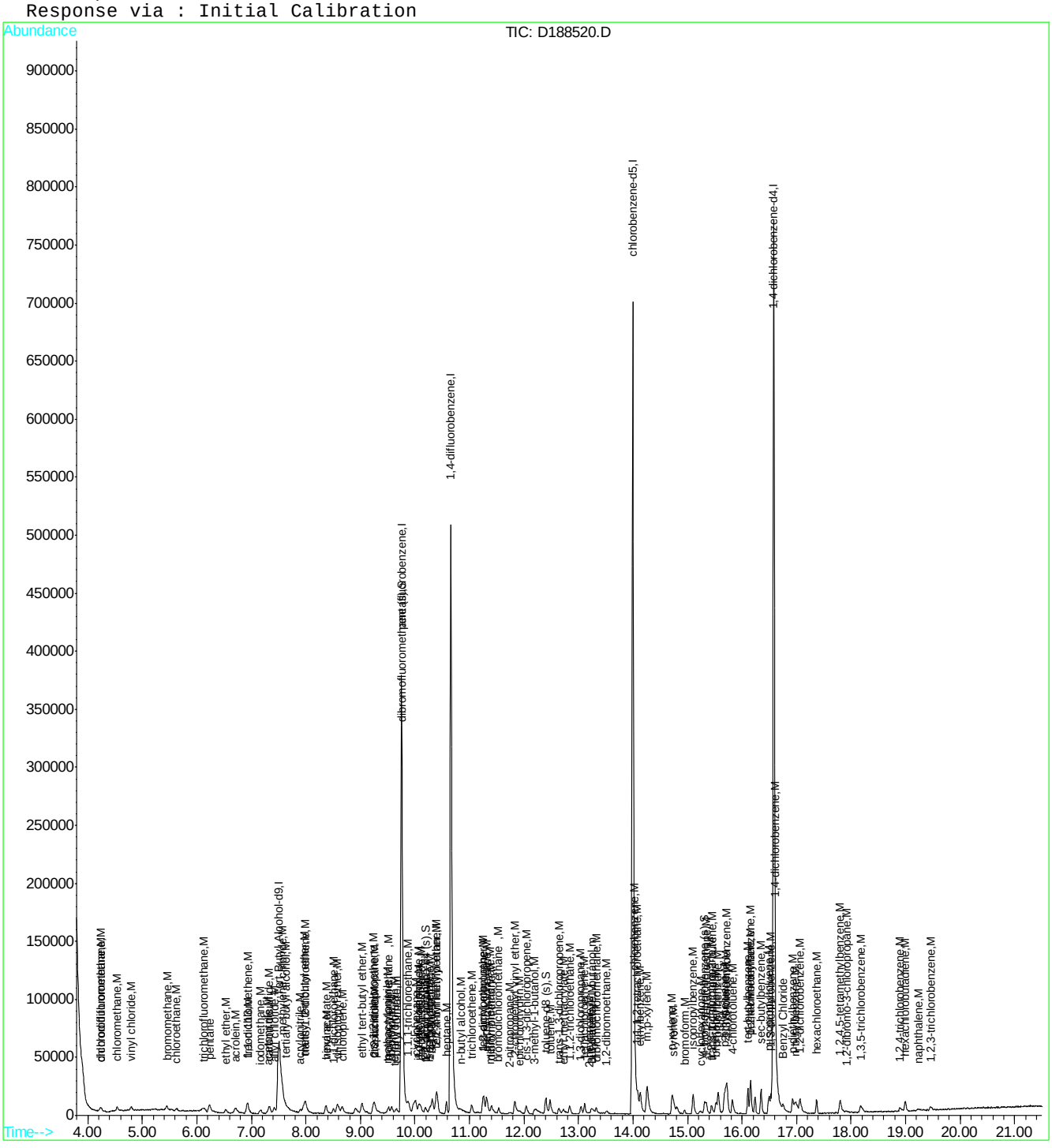
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
103) trans-1,4-dichloro-2-buten	15.45	53	951	0.63 ug/L #	1
104) 1,2,3-trichloropropane	15.44	110	1294	0.88 ug/L	98
105) n-propylbenzene	15.56	91	19667	0.89 ug/L	98
106) p-ethyltoluene	15.68	105	14701	0.85 ug/L	97
107) 2-chlorotoluene	15.70	126	3967	0.87 ug/L	90
108) 4-chlorotoluene	15.82	91	13547	0.93 ug/L	95
109) 1,3,5-trimethylbenzene	15.72	105	15229	0.90 ug/L	94
110) tert-butylbenzene	16.11	119	16615	1.13 ug/L	98
111) pentachloroethane	16.15	167	2470	0.78 ug/L	81
112) 1,2,4-trimethylbenzene	16.16	105	14813	0.88 ug/L	96
113) sec-butylbenzene	16.35	105	19584	0.92 ug/L	99
114) 1,3-dichlorobenzene	16.53	146	7532	0.81 ug/L	95
115) p-isopropyltoluene	16.49	119	15266	0.87 ug/L	95
116) 1,4-dichlorobenzene	16.61	146	9629	0.94 ug/L	98
117) Benzyl Chloride	16.75	91	8420	0.80 ug/L	93
118) p-diethylbenzene	16.93	119	9080	0.85 ug/L #	83
119) 1,2-dichlorobenzene	17.06	146	7955	0.85 ug/L	93
120) n-butylbenzene	16.98	92	7484	0.76 ug/L	95
121) 1,2,4,5-tetramethylbenzene	17.80	119	12579	0.76 ug/L	97
122) 1,2-dibromo-3-chloropropan	17.92	75	543	0.62 ug/L #	57
123) 1,3,5-trichlorobenzene	18.17	180	5022	0.67 ug/L	96
124) 1,2,4-trichlorobenzene	18.90	180	3293	0.80 ug/L	94
125) hexachlorobutadiene	19.00	225	2825	0.79 ug/L	90
126) naphthalene	19.23	128	6087	0.55 ug/L	97
127) 1,2,3-trichlorobenzene	19.46	180	2340	1.54 ug/L	87
128) hexachloroethane	17.37	119	2608	0.83 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188520.D Vial: 3
Acq On : 28 Oct 2011 9:53 am Operator: EmilyT
Sample : IC7671-1 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:33 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:18:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188521.D Vial: 4
Acq On : 28 Oct 2011 10:23 am Operator: EmilyT
Sample : IC7671-2 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:24 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	192540	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	317679	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	504419	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	492457	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	269380	50.00 ug/L	0.00

System Monitoring Compounds					
44) dibromofluoromethane (s)	9.77	113	6052	1.75 ug/L	0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 3.50%#		
45) 1,2-dichloroethane-d4 (s)	10.19	65	6959	1.67 ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 3.34%#		
75) toluene-d8 (s)	12.39	98	22446	1.67 ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 3.34%#		
99) 4-bromofluorobenzene (s)	15.30	95	11222	1.83 ug/L	0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 3.66%#		

Target Compounds					Qvalue
2) 1,4-dioxane	11.39	88	1406	160.34 ug/L #	99
3) tertiary butyl alcohol	7.64	59	4349	8.69 ug/L	65
6) chlorodifluoromethane	4.24	51	7564	1.83 ug/L	99
7) dichlorodifluoromethane	4.23	85	8165	1.73 ug/L	92
8) chloromethane	4.55	50	8870	1.77 ug/L	96
9) vinyl chloride	4.80	62	8541	1.75 ug/L	91
10) bromomethane	5.45	94	5665	1.83 ug/L	96
11) chloroethane	5.62	64	5334	1.88 ug/L	95
13) trichlorofluoromethane	6.14	101	9776	1.73 ug/L	91
14) pentane	6.23	43	13582	1.73 ug/L	94
15) ethyl ether	6.52	74	4435	1.85 ug/L	93
16) acrolein	6.66	56	916330	1014.20 ug/L	99
18) 1,1-dichloroethene	6.93	96	7092	1.88 ug/L	97
19) acetone	6.91	58	1687	4.16 ug/L	94
20) allyl chloride	7.41	41	13102	1.64 ug/L	95
21) acetonitrile	7.27	40	3697	15.53 ug/L	93
23) iodomethane	7.16	142	11758	1.86 ug/L	97
24) iso-butyl alcohol	10.01	74	103	5.06 ug/L	50
25) carbon disulfide	7.32	76	22656	1.86 ug/L	99
26) methylene chloride	7.56	84	7968	1.83 ug/L	98
27) methyl acetate	7.42	43	11094	3.26 ug/L	73
28) methyl tert butyl ether	7.97	73	23059	1.86 ug/L	96
29) trans-1,2-dichloroethene	7.99	96	7305	1.83 ug/L	92
30) di-isopropyl ether	8.57	45	24580	1.91 ug/L	74
31) ethyl tert-butyl ether	9.02	59	23105	1.86 ug/L	98
33) 1,1-dichloroethane	8.50	63	12674	1.81 ug/L	92
34) chloroprene	8.65	53	10601	1.83 ug/L	97
35) acrylonitrile	7.86	53	13299	8.30 ug/L	91
36) vinyl acetate	8.59	86	791	3.23 ug/L #	89
38) 2,2-dichloropropane	9.25	77	11190	1.87 ug/L	92
39) cis-1,2-dichloroethene	9.23	96	7806	1.82 ug/L	97
40) propionitrile	9.23	54	10042	16.20 ug/L	93
41) bromochloromethane	9.52	128	3474	1.70 ug/L	94

(#) = qualifier out of range (m) = manual integration
D188521.D MD7671.M Fri Oct 28 17:23:59 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188521.D Vial: 4
Acq On : 28 Oct 2011 10:23 am Operator: EmilyT
Sample : IC7671-2 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:24 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) tetrahydrofuran	9.62	72	804	1.37 ug/L #	31
43) chloroform	9.57	83	11527	1.79 ug/L	93
46) freon 113	6.93	151	5011	1.69 ug/L	96
47) methacrylonitrile	9.46	41	4224	1.79 ug/L	97
48) t-butyl formate	9.66	59	6252	1.76 ug/L #	67
49) 1,1,1-trichloroethane	9.88	97	10124	1.75 ug/L	87
50) tert-amyl methyl ether	10.39	73	22719	1.89 ug/L	99
52) cyclohexane	10.01	84	10962	1.82 ug/L #	100
53) tert amyl alcohol	10.16	55	1912	10.67 ug/L #	63
54) 2,2,4-trimethylpentane	10.40	57	27279	1.80 ug/L	98
55) epichlorohydrin	11.90	57	4477	9.90 ug/L	84
56) n-butyl alcohol	10.80	56	13087	108.05 ug/L	90
57) carbon tetrachloride	10.11	117	8707	1.76 ug/L	99
58) 1,1-dichloropropene	10.07	75	9705	1.84 ug/L	96
59) hexane	8.36	57	10033	1.86 ug/L	94
60) benzene	10.32	78	28886	1.87 ug/L	98
61) heptane	10.57	57	5246	1.79 ug/L	91
62) isopropyl acetate	10.25	43	11951	1.62 ug/L	97
63) 1,2-dichloroethane	10.27	62	9303	1.79 ug/L	92
64) Ethyl Acrylate	11.08	55	7444	1.50 ug/L #	80
65) trichloroethene	11.03	95	7187	1.82 ug/L	96
66) 2-nitropropane	11.73	43	1911	1.50 ug/L	86
67) 2-chloroethyl vinyl ether	11.81	63	22345	8.88 ug/L	97
68) methyl methacrylate	11.33	100	1585	1.34 ug/L #	81
69) tert-amyl ethyl ether	11.24	87	9659	1.73 ug/L	97
70) 1,2-dichloropropane	11.26	63	7526	1.85 ug/L	97
71) methylcyclohexane	11.31	83	12557	1.85 ug/L	98
72) dibromomethane	11.40	93	4156	1.72 ug/L	94
73) bromodichloromethane	11.53	83	8699	1.73 ug/L	97
74) cis-1,3-dichloropropene	12.04	75	10899	1.71 ug/L	95
76) 4-methyl-2-pentanone	12.18	58	2852	1.65 ug/L #	50
77) toluene	12.47	92	17468	1.81 ug/L	97
78) 3-methyl-1-butanol	12.17	70	4033	34.33 ug/L #	70
79) trans-1,3-dichloropropene	12.62	75	10320	1.68 ug/L	90
80) ethyl methacrylate	12.69	69	9399	1.70 ug/L	97
81) 1,1,2-trichloroethane	12.83	83	5119	1.69 ug/L	91
82) 2-hexanone	13.13	58	2809	1.70 ug/L #	73
84) tetrachloroethene	13.11	166	7565	1.73 ug/L	98
85) 1,3-dichloropropane	13.04	76	10958	1.73 ug/L	92
86) butyl acetate	13.24	56	8085	5.23 ug/L #	26
87) 3,3-dimethyl-1-butanol	13.23	57	7834	17.78 ug/L #	78
88) dibromochloromethane	13.32	129	6256	1.46 ug/L	93
89) 1,2-dibromoethane	13.50	107	6183	1.65 ug/L	98
90) chlorobenzene	14.03	112	19295	1.74 ug/L	83
91) 1,1,1,2-tetrachloroethane	14.09	131	6620	1.64 ug/L	91
92) ethylbenzene	14.13	91	33898	1.79 ug/L	97
93) m,p-xylene	14.25	106	27294	3.62 ug/L	88
94) o-xylene	14.70	106	12944	1.73 ug/L	94
95) styrene	14.72	104	21070	1.63 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188521.D Vial: 4
Acq On : 28 Oct 2011 10:23 am Operator: EmilyT
Sample : IC7671-2 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:24 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

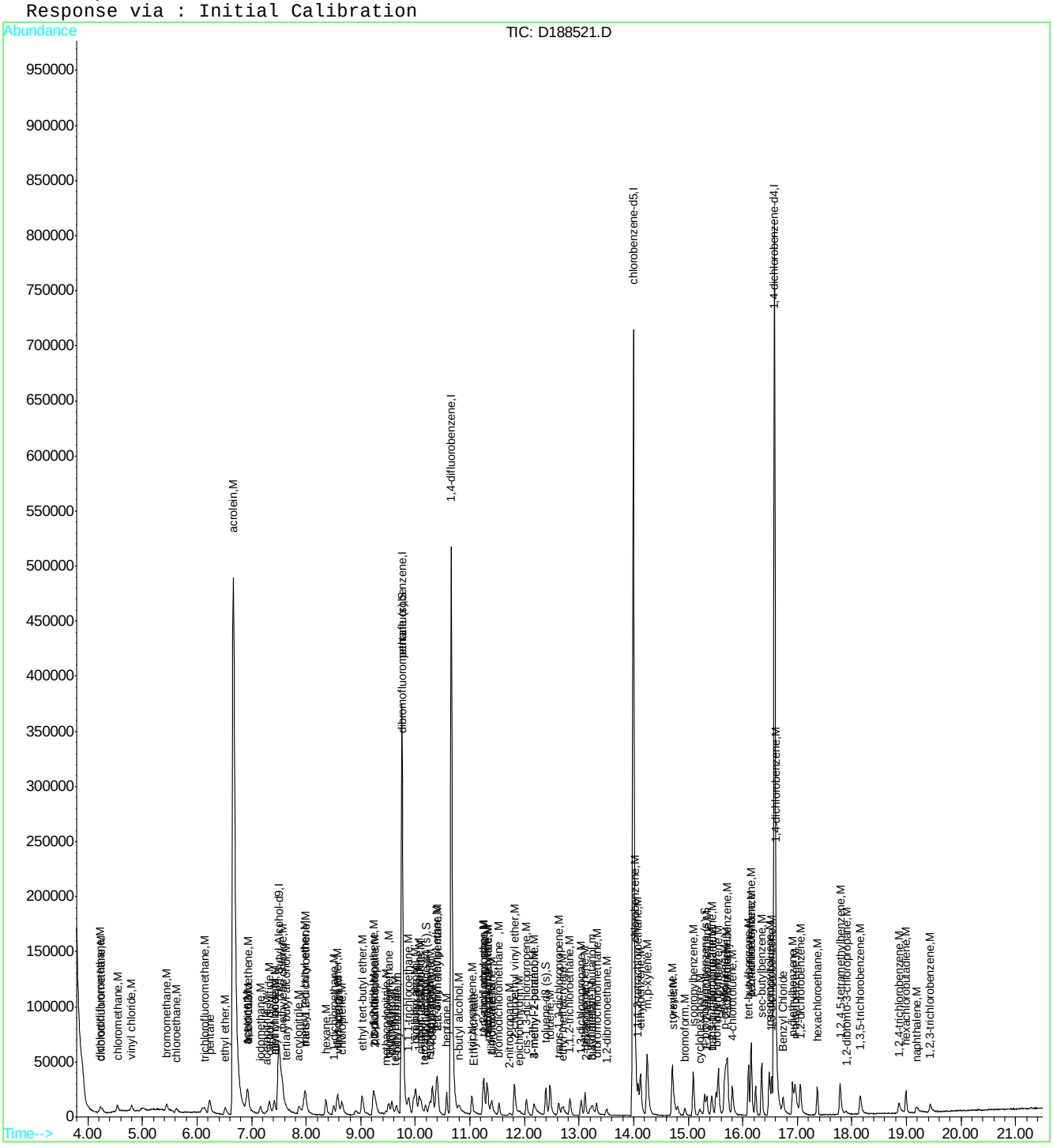
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
96)	bromoform	14.94	173	4513	3.12	ug/L		84
98)	isopropylbenzene	15.10	105	35349	1.85	ug/L		97
100)	bromobenzene	15.51	156	8759	1.78	ug/L		97
101)	cyclohexanone	15.22	55	6451	14.55	ug/L		96
102)	1,1,2,2-tetrachloroethane	15.34	83	10153	1.92	ug/L		97
103)	trans-1,4-dichloro-2-buten	15.43	53	2225	1.47	ug/L	#	1
104)	1,2,3-trichloropropane	15.43	110	2627	1.77	ug/L		94
105)	n-propylbenzene	15.55	91	41742	1.87	ug/L		98
106)	p-ethyltoluene	15.67	105	30714	1.76	ug/L		98
107)	2-chlorotoluene	15.69	126	8486	1.83	ug/L		94
108)	4-chlorotoluene	15.81	91	28428	1.93	ug/L		98
109)	1,3,5-trimethylbenzene	15.72	105	32393	1.89	ug/L		99
110)	tert-butylbenzene	16.11	119	26011	1.74	ug/L		97
111)	pentachloroethane	16.15	167	5175	1.62	ug/L		90
112)	1,2,4-trimethylbenzene	16.16	105	30866	1.81	ug/L		99
113)	sec-butylbenzene	16.35	105	40609	1.88	ug/L		97
114)	1,3-dichlorobenzene	16.53	146	16516	1.76	ug/L		97
115)	p-isopropyltoluene	16.48	119	31787	1.80	ug/L		96
116)	1,4-dichlorobenzene	16.61	146	19424	1.88	ug/L		92
117)	Benzyl Chloride	16.74	91	16903	1.59	ug/L		96
118)	p-diethylbenzene	16.91	119	17723	1.64	ug/L	#	76
119)	1,2-dichlorobenzene	17.05	146	16929	1.79	ug/L		95
120)	n-butylbenzene	16.96	92	16511	1.65	ug/L		95
121)	1,2,4,5-tetramethylbenzene	17.78	119	25217	1.50	ug/L		99
122)	1,2-dibromo-3-chloropropan	17.89	75	1200	1.35	ug/L		82
123)	1,3,5-trichlorobenzene	18.15	180	11559	1.53	ug/L		92
124)	1,2,4-trichlorobenzene	18.87	180	8043	1.53	ug/L		93
125)	hexachlorobutadiene	18.99	225	5718	1.58	ug/L		87
126)	naphthalene	19.19	128	14552	0.71	ug/L		95
127)	1,2,3-trichlorobenzene	19.43	180	5261	2.15	ug/L		94
128)	hexachloroethane	17.37	119	5376	1.69	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188521.D Vial: 4
Acq On : 28 Oct 2011 10:23 am Operator: EmilyT
Sample : IC7671-2 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:24 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:18:22 2011
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/31/11 15:09

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 17:17 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	185611	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	317995	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	504691	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	497893	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	270852	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.76	113	15934	4.59 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 9.18%#		
45) 1,2-dichloroethane-d4 (s)	10.18	65	19003	4.56 ug/L	0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 9.12%#		
75) toluene-d8 (s)	12.39	98	63737	4.73 ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 9.46%#		
99) 4-bromofluorobenzene (s)	15.29	95	30682	4.98 ug/L	0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 9.96%#		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.38	88	3621	207.67 ug/L #	99
3) tertiary butyl alcohol	7.62	59	10329	21.41 ug/L	74
6) chlorodifluoromethane	4.23	51	19764	4.77 ug/L	98
7) dichlorodifluoromethane	4.23	85	22981	4.88 ug/L	96
8) chloromethane	4.54	50	22995	4.58 ug/L	98
9) vinyl chloride	4.80	62	22695	4.65 ug/L	96
10) bromomethane	5.45	94	14527	4.68 ug/L	98
11) chloroethane	5.63	64	13430	4.73 ug/L	100
13) trichlorofluoromethane	6.14	101	26417	4.68 ug/L	96
14) pentane	6.23	43	36502	4.65 ug/L	99
15) ethyl ether	6.52	74	10832	4.52 ug/L	90
16) acrolein	6.69	56	44745	49.47 ug/L	99
18) 1,1-dichloroethene	6.92	96	17844	4.72 ug/L	94
19) acetone	6.94	58	1653	4.07 ug/L #	81
20) allyl chloride	7.41	41	41182	5.15 ug/L	94
21) acetonitrile	7.28	40	10951	45.95 ug/L	91
23) iodomethane	7.17	142	29763	4.71 ug/L	98
24) iso-butyl alcohol	10.00	74	802m	39.36 ug/L	
25) carbon disulfide	7.33	76	58301	4.78 ug/L	97
26) methylene chloride	7.56	84	20173	4.63 ug/L	95
27) methyl acetate	7.41	43	17170	5.04 ug/L	88
28) methyl tert butyl ether	7.96	73	57792	4.66 ug/L	96
29) trans-1,2-dichloroethene	7.99	96	18915	4.73 ug/L	94
30) di-isopropyl ether	8.57	45	59400	4.61 ug/L	80
31) ethyl tert-butyl ether	9.02	59	57135	4.60 ug/L	96
32) 2-butanone	9.20	72	2022m	3.99 ug/L	
33) 1,1-dichloroethane	8.50	63	33564	4.78 ug/L	98
34) chloroprene	8.65	53	28108	4.85 ug/L	93
35) acrylonitrile	7.85	53	35931	22.40 ug/L	92
36) vinyl acetate	8.55	86	2973	5.53 ug/L #	40
37) ethyl acetate	9.26	45	2811m	5.70 ug/L	
38) 2,2-dichloropropane	9.26	77	28734	4.80 ug/L	99
39) cis-1,2-dichloroethene	9.22	96	20273	4.71 ug/L	95

(#) = qualifier out of range (m) = manual integration
D188522.D MD7671.M Fri Oct 28 17:24:35 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 17:17 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
40) propionitrile	9.22	54	27532	44.36 ug/L		98
41) bromochloromethane	9.51	128	9324	4.55 ug/L		91
42) tetrahydrofuran	9.61	72	2562	4.36 ug/L	#	71
43) chloroform	9.57	83	30679	4.76 ug/L		97
46) freon 113	6.93	151	13307	4.48 ug/L		91
47) methacrylonitrile	9.44	41	9435	4.00 ug/L		90
48) t-butyl formate	9.65	59	15626	4.38 ug/L	#	74
49) 1,1,1-trichloroethane	9.88	97	27944	4.82 ug/L		98
50) tert-amyl methyl ether	10.38	73	54469	4.54 ug/L		99
52) cyclohexane	10.01	84	29190	4.85 ug/L	#	100
53) tert amyl alcohol	10.16	55	4546	25.35 ug/L	#	72
54) 2,2,4-trimethylpentane	10.40	57	71716	4.72 ug/L		99
55) epichlorohydrin	11.89	57	10800	23.86 ug/L		95
56) n-butyl alcohol	10.77	56	23494	193.87 ug/L		91
57) carbon tetrachloride	10.11	117	23292	4.71 ug/L		93
58) 1,1-dichloropropene	10.07	75	25119	4.75 ug/L		98
59) hexane	8.36	57	25921	4.81 ug/L		98
60) benzene	10.31	78	73942	4.79 ug/L		99
61) heptane	10.57	57	14160	4.82 ug/L		99
62) isopropyl acetate	10.24	43	30454	4.13 ug/L		99
63) 1,2-dichloroethane	10.27	62	24401	4.70 ug/L		98
64) Ethyl Acrylate	11.05	55	20361m	4.09 ug/L		
65) trichloroethene	11.03	95	18852	4.76 ug/L		97
66) 2-nitropropane	11.72	43	5237	4.11 ug/L		99
67) 2-chloroethyl vinyl ether	11.80	63	55788	22.15 ug/L		97
68) methyl methacrylate	11.31	100	4895	4.14 ug/L	#	27
69) tert-amyl ethyl ether	11.25	87	26058	4.67 ug/L		96
70) 1,2-dichloropropane	11.26	63	19034	4.68 ug/L		97
71) methylcyclohexane	11.31	83	32133	4.72 ug/L		98
72) dibromomethane	11.40	93	11208	4.62 ug/L		96
73) bromodichloromethane	11.53	83	23080	4.59 ug/L		99
74) cis-1,3-dichloropropene	12.03	75	29670	4.64 ug/L		96
76) 4-methyl-2-pentanone	12.15	58	8097	4.69 ug/L	#	77
77) toluene	12.46	92	45836	4.75 ug/L		98
78) 3-methyl-1-butanol	12.15	70	9931	84.50 ug/L		85
79) trans-1,3-dichloropropene	12.62	75	27307	4.45 ug/L		99
80) ethyl methacrylate	12.67	69	24553	4.45 ug/L		97
81) 1,1,2-trichloroethane	12.83	83	13863	4.56 ug/L		98
82) 2-hexanone	13.09	58	8381	5.06 ug/L		86
84) tetrachloroethene	13.11	166	20198	4.58 ug/L		92
85) 1,3-dichloropropane	13.03	76	29225	4.55 ug/L		95
86) butyl acetate	13.18	56	7550m	5.03 ug/L		
87) 3,3-dimethyl-1-butanol	13.23	57	18442	41.40 ug/L	#	82
88) dibromochloromethane	13.32	129	17145	3.96 ug/L		99
89) 1,2-dibromoethane	13.49	107	16694	4.39 ug/L		99
90) chlorobenzene	14.03	112	50736	4.54 ug/L		98
91) 1,1,1,2-tetrachloroethane	14.09	131	17815	4.37 ug/L		94
92) ethylbenzene	14.12	91	87839	4.58 ug/L		98
93) m,p-xylene	14.24	106	70724	9.28 ug/L		98

(#) = qualifier out of range (m) = manual integration
D188522.D MD7671.M Fri Oct 28 17:24:36 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 17:17 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

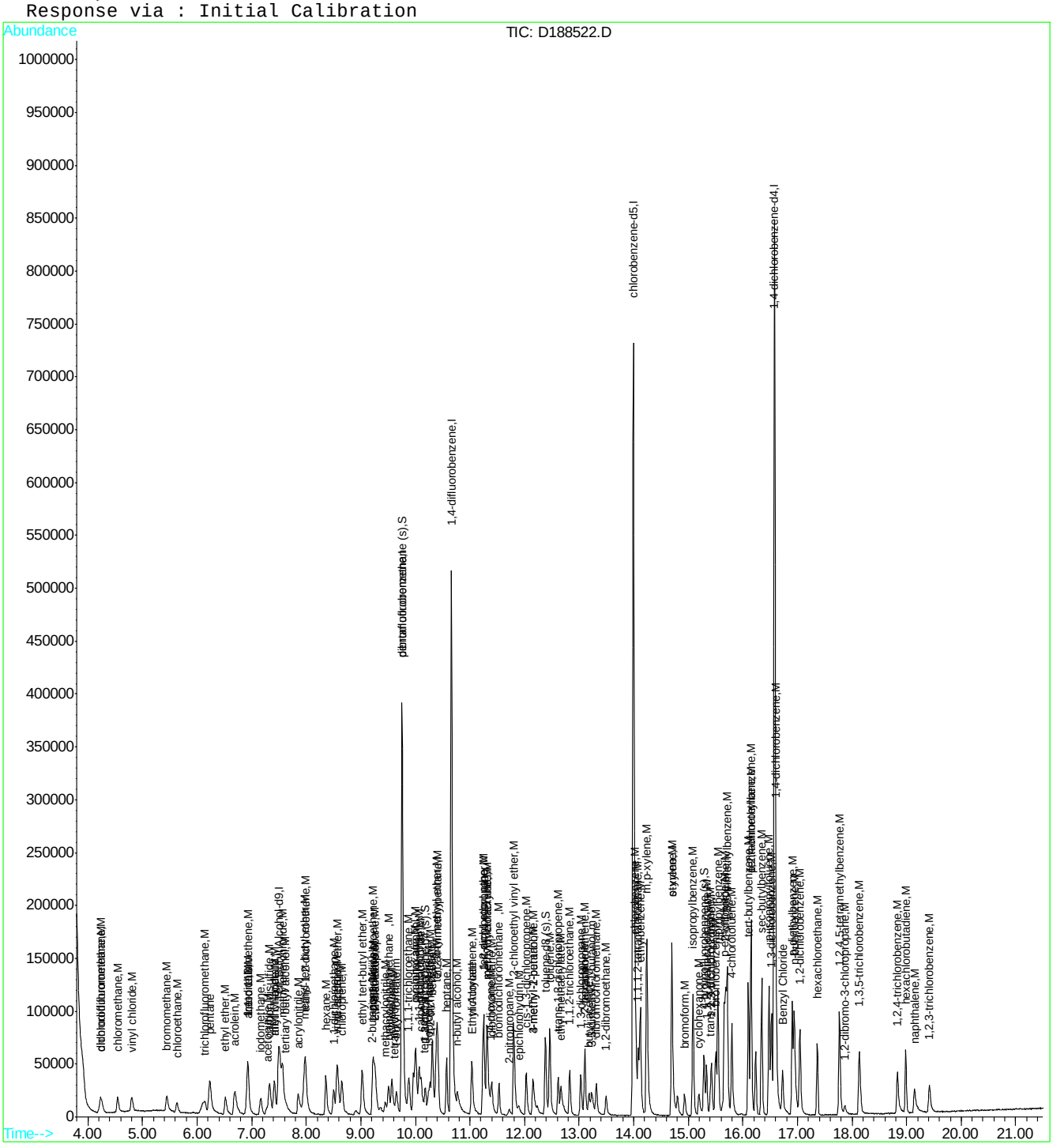
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
94)	o-xylene	14.70	106	34521	4.56	ug/L		97
95)	styrene	14.70	104	58053	4.44	ug/L		96
96)	bromoform	14.93	173	12315	5.27	ug/L		99
98)	isopropylbenzene	15.08	105	94170	4.89	ug/L		97
100)	bromobenzene	15.50	156	23109	4.66	ug/L		93
101)	cyclohexanone	15.19	55	19458	43.66	ug/L		96
102)	1,1,2,2-tetrachloroethane	15.34	83	25242	4.75	ug/L		97
103)	trans-1,4-dichloro-2-buten	15.40	53	6223	4.08	ug/L	#	62
104)	1,2,3-trichloropropane	15.42	110	6934	4.64	ug/L	#	80
105)	n-propylbenzene	15.54	91	110875	4.94	ug/L		99
106)	p-ethyltoluene	15.66	105	81861	4.65	ug/L		99
107)	2-chlorotoluene	15.69	126	22297	4.78	ug/L		97
108)	4-chlorotoluene	15.80	91	72708	4.92	ug/L		100
109)	1,3,5-trimethylbenzene	15.71	105	87506	5.07	ug/L		96
110)	tert-butylbenzene	16.10	119	69928	4.65	ug/L		99
111)	pentachloroethane	16.15	167	14244	4.43	ug/L		94
112)	1,2,4-trimethylbenzene	16.15	105	82895	4.83	ug/L		99
113)	sec-butylbenzene	16.34	105	105074	4.84	ug/L		98
114)	1,3-dichlorobenzene	16.52	146	44303	4.68	ug/L		98
115)	p-isopropyltoluene	16.48	119	85092	4.78	ug/L		98
116)	1,4-dichlorobenzene	16.61	146	50153	4.83	ug/L		99
117)	Benzyl Chloride	16.73	91	43573	4.09	ug/L		98
118)	p-diethylbenzene	16.90	119	51372	4.74	ug/L	#	80
119)	1,2-dichlorobenzene	17.05	146	45507	4.78	ug/L		98
120)	n-butylbenzene	16.94	92	45908	4.55	ug/L		98
121)	1,2,4,5-tetramethylbenzene	17.77	119	72482	4.30	ug/L		99
122)	1,2-dibromo-3-chloropropan	17.88	75	3762	4.22	ug/L		82
123)	1,3,5-trichlorobenzene	18.13	180	31781	4.19	ug/L		97
124)	1,2,4-trichlorobenzene	18.83	180	22719	3.76	ug/L		96
125)	hexachlorobutadiene	18.99	225	15459	4.24	ug/L	#	69
126)	naphthalene	19.15	128	42416	3.04	ug/L		96
127)	1,2,3-trichlorobenzene	19.41	180	15858	4.36	ug/L		96
128)	hexachloroethane	17.36	119	14366	4.50	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 17:17 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:18:22 2011
Response via : Initial Calibration



Manual Integration Approval Summary

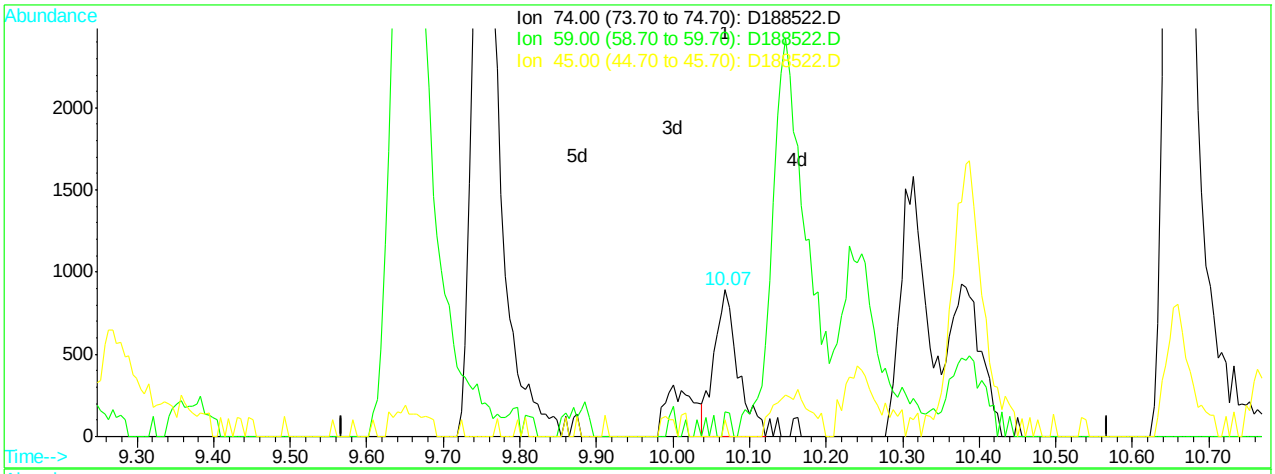
Sample Number:	VD7671-IC7671	**Method:**	SW846 8260B
Lab FileID:	D188522.D	**Analyst approved:**	10/31/11 08:51 Yunxia Chen
Injection Time:	10/28/11 10:52	**Supervisor approved:**	10/31/11 15:09 Kanya Veerawat

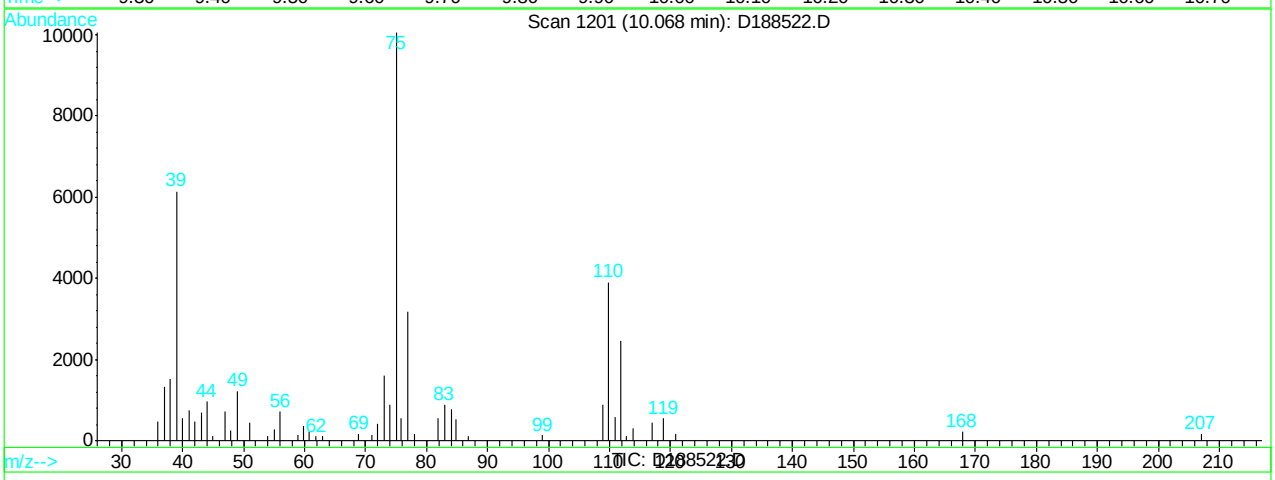
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Butanone (MEK)	78-93-3		9.20	Split peak
Ethyl Acetate	141-78-6		9.26	Split peak
Isobutyl alcohol	78-83-1		10.00	Missed peak
Ethyl Acrylate	140-88-5		11.05	Missed peak
Butyl Acetate	123-86-4		13.18	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:23 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 12:53:25 2011
Response via : Multiple Level Calibration





(24) iso-butyl alcohol (M)

10.07min 103.56ug/L

response 1916

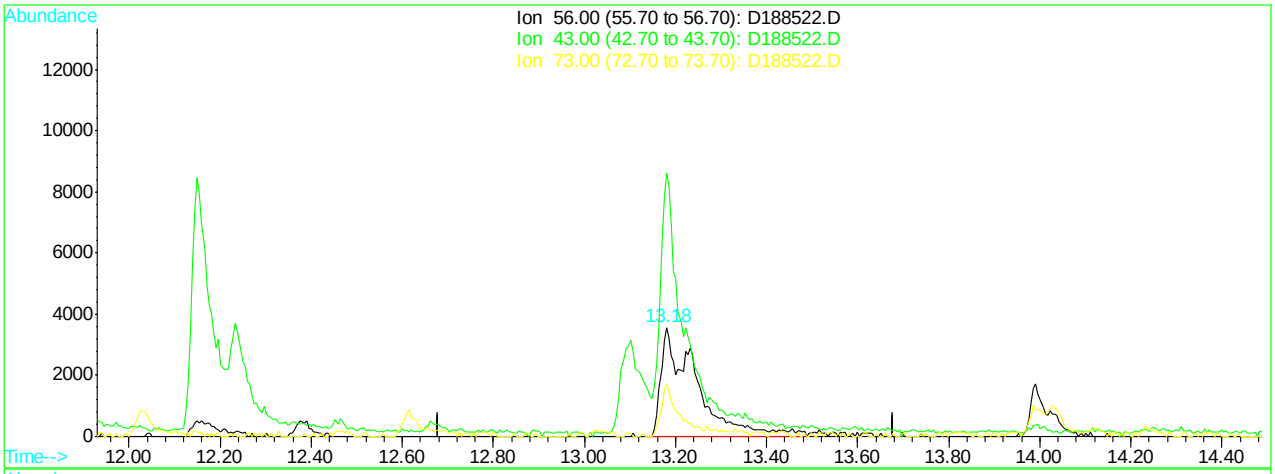
Ion	Exp%	Act%
74.00	100	100
59.00	26.20	16.69
45.00	29.30	11.53
0.00	0.00	0.00

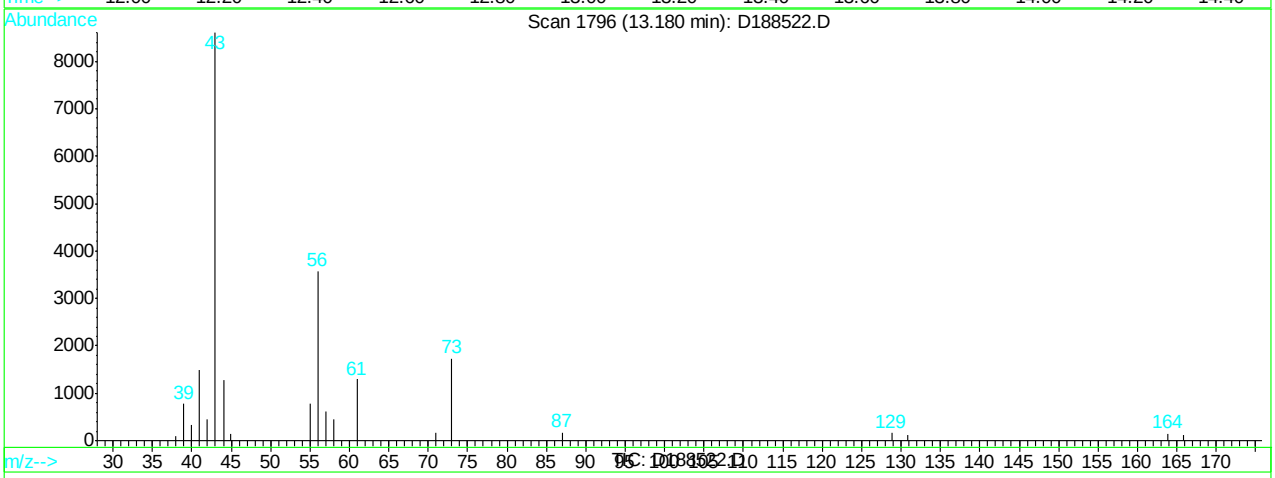
D188522.D MD7671.M Fri Oct 28 12:55:02 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 12:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 12:58:46 2011
Response via : Multiple Level Calibration





(86) butyl acetate (M)

13.18min 6.12ug/L

response 19423

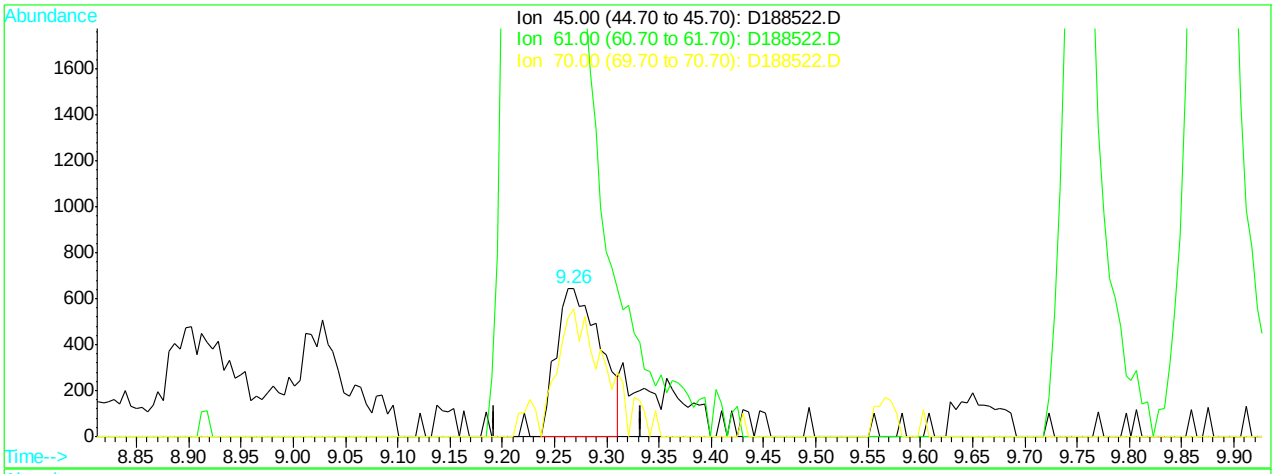
Ion	Exp%	Act%
56.00	100	100
43.00	259.20	233.05
73.00	37.40	48.64
0.00	0.00	0.00

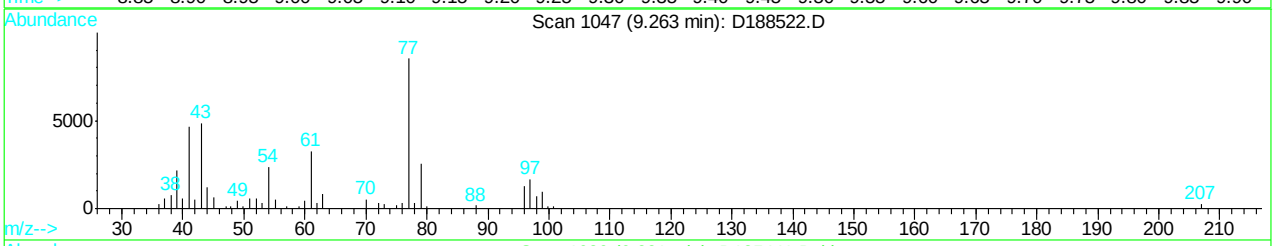
D188522.D MD7671.M Fri Oct 28 13:04:44 2011 RPT1

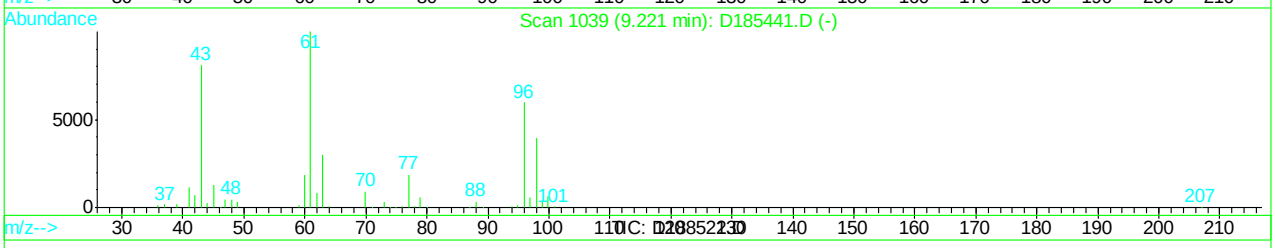
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 15:09 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 14:45:19 2011
Response via : Multiple Level Calibration







(37) ethyl acetate (M)

9.26min 4.48ug/L

response 1895

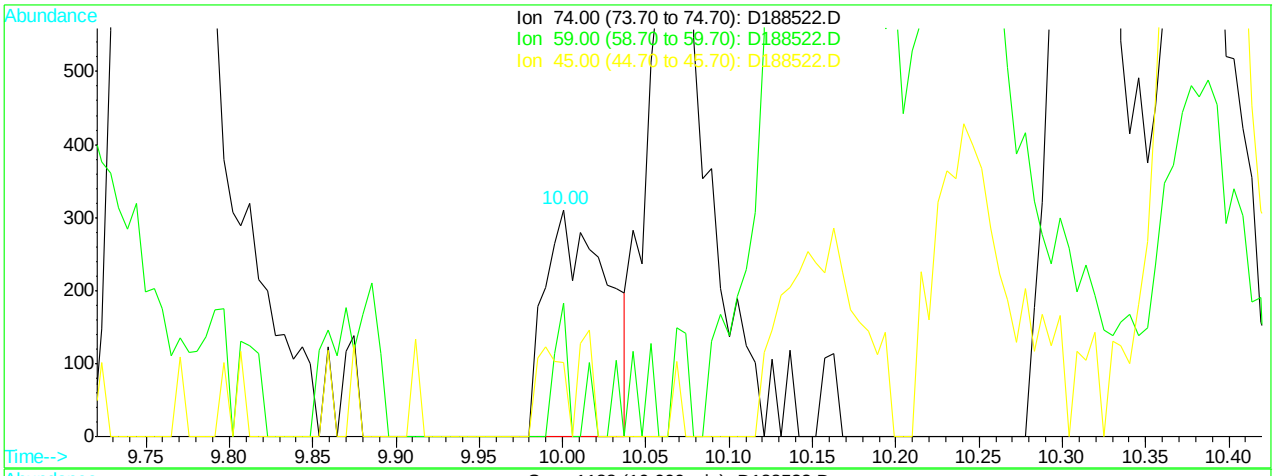
Ion	Exp%	Act%
45.00	100	100
61.00	790.90	403.56#
70.00	71.00	79.88
0.00	0.00	0.00

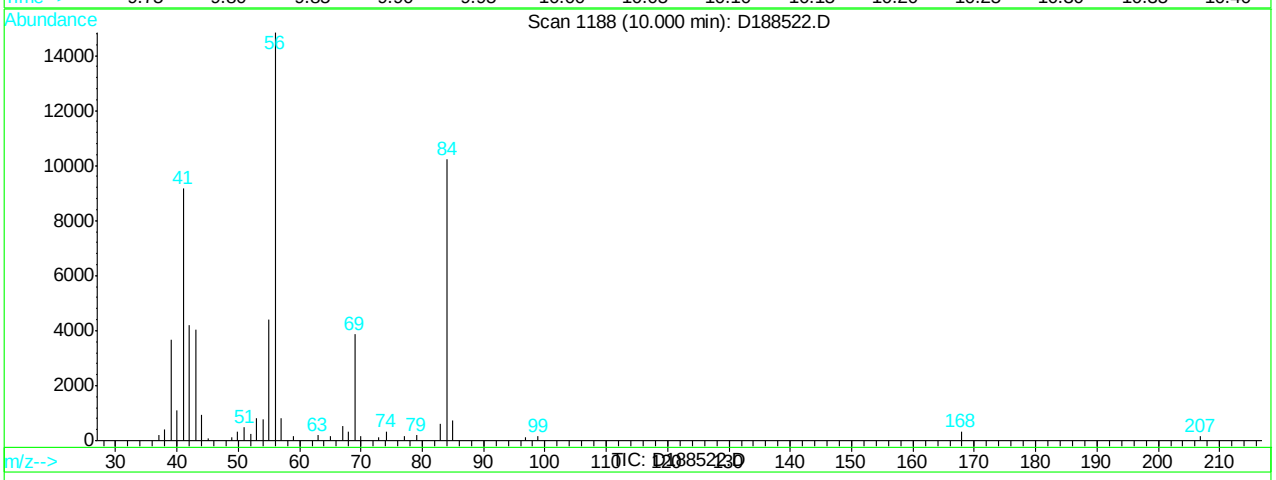
D188522.D MD7671.M Fri Oct 28 15:21:17 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:35 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Single Level Calibration





(24) iso-butyl alcohol (M)

10.00min 39.36ug/L m

response 802

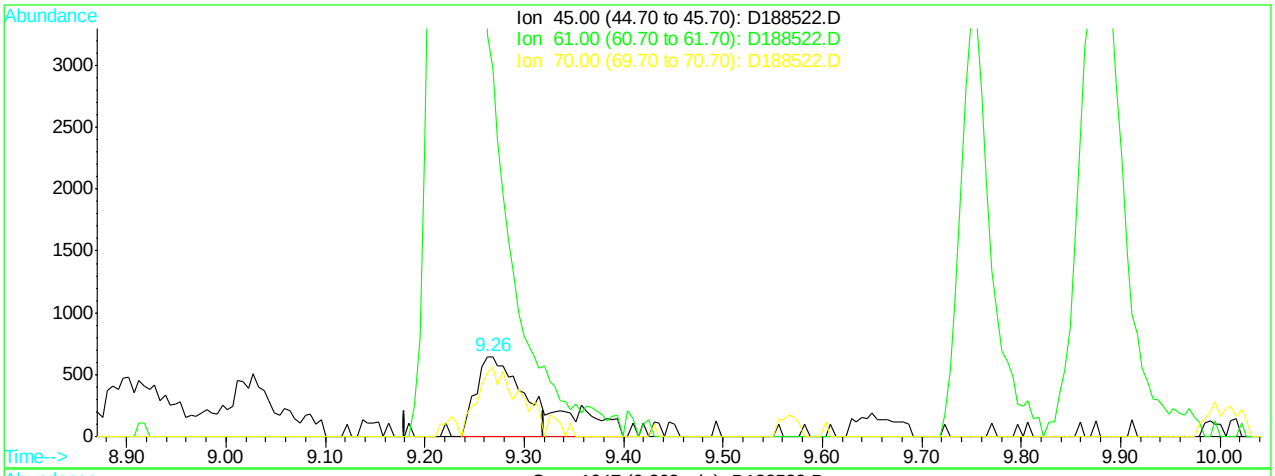
Ion	Exp%	Act%
74.00	100	100
59.00	28.20	58.84#
45.00	21.90	32.80
0.00	0.00	0.00

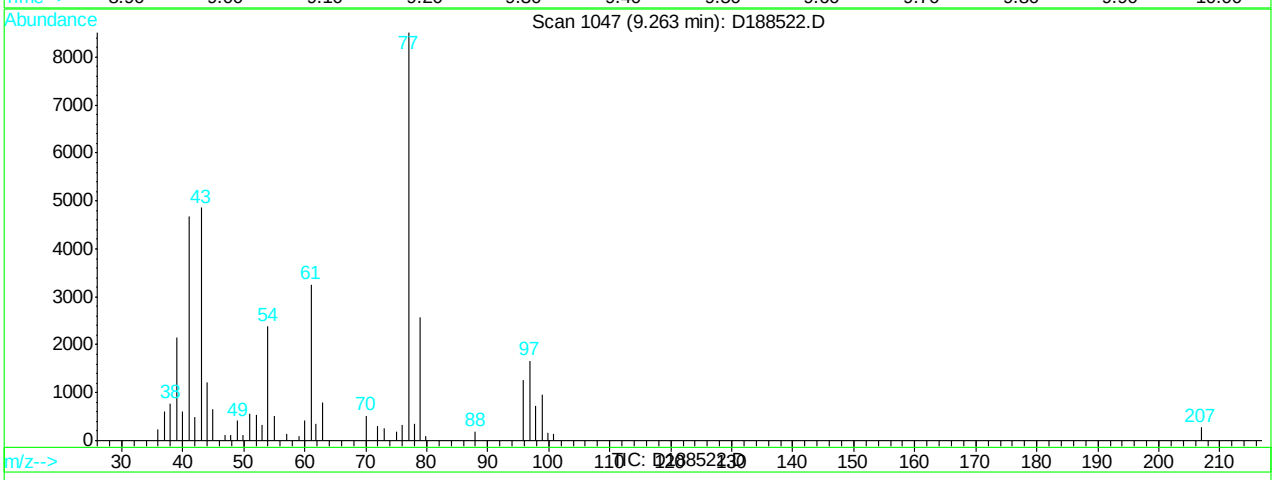
D188522.D MD7671.M Fri Oct 28 16:35:45 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:35 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Multiple Level Calibration





(37) ethyl acetate (M)

9.26min 5.70ug/L m

response 2811

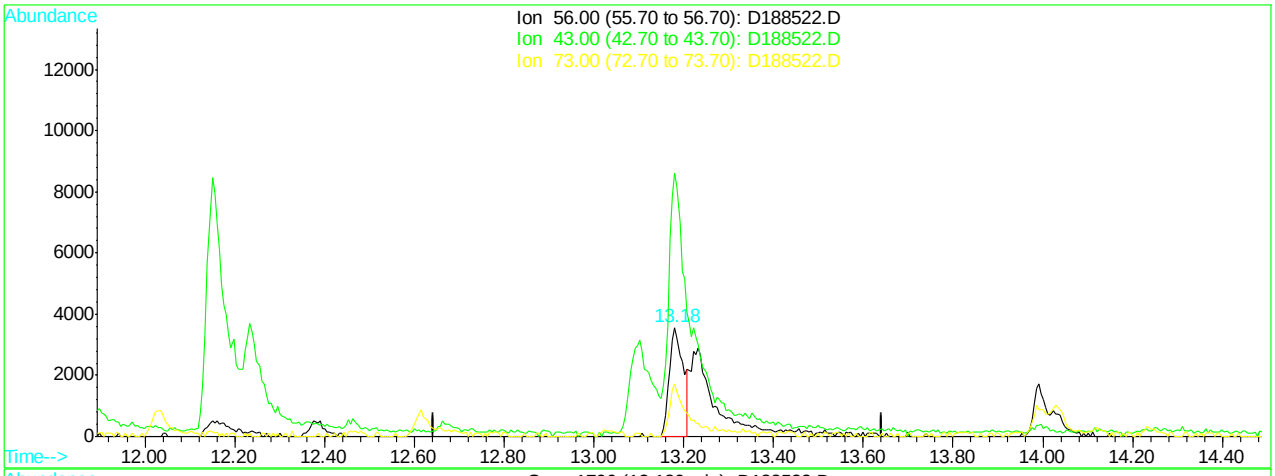
Ion	Exp%	Act%
45.00	100	100
61.00	821.80	503.25#
70.00	85.40	79.88
0.00	0.00	0.00

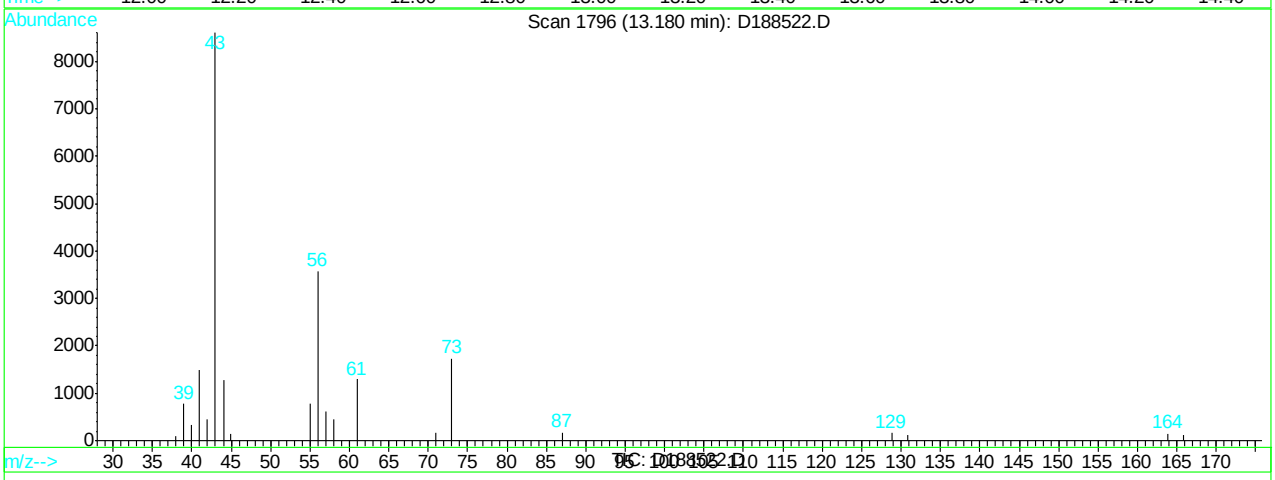
D188522.D MD7671.M Fri Oct 28 16:36:15 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:36 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:29:07 2011
Response via : Multiple Level Calibration





(86) butyl acetate (M)

13.18min 5.03ug/L m

response 7550

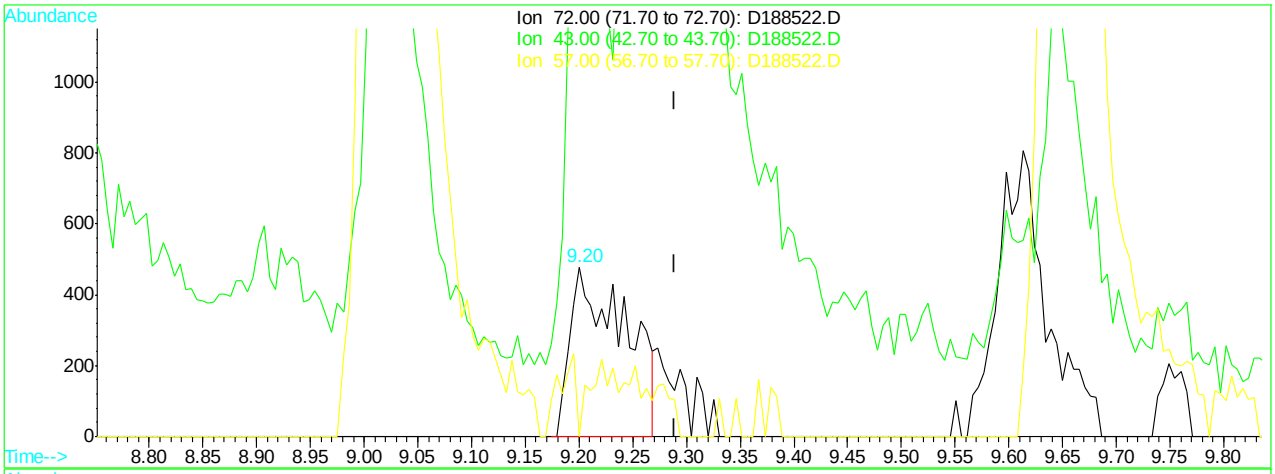
Ion	Exp%	Act%
56.00	100	100
43.00	231.90	240.83
73.00	42.30	48.64
0.00	0.00	0.00

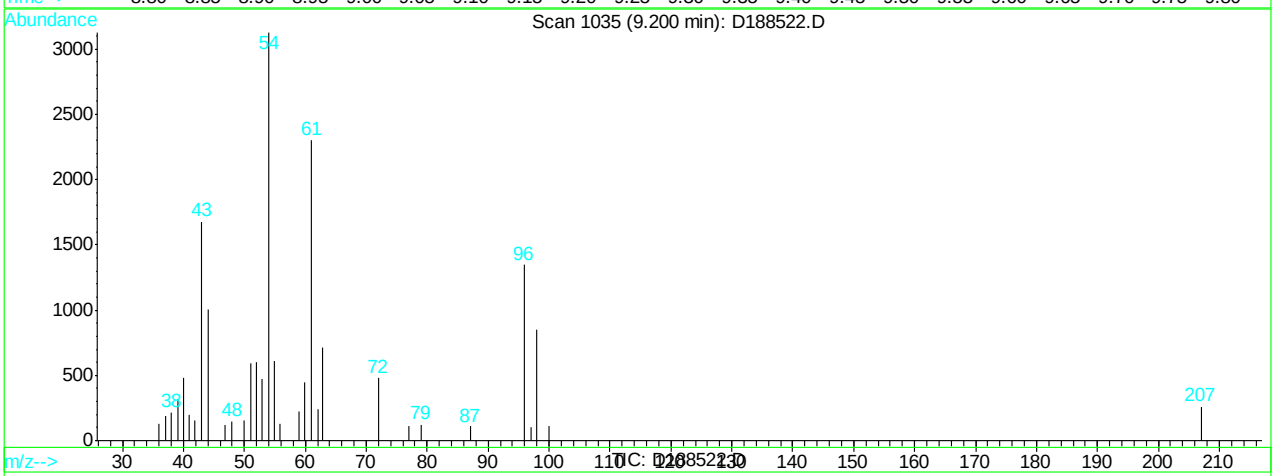
D188522.D MD7671.M Fri Oct 28 16:36:39 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:36 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:38:39 2011
Response via : Multiple Level Calibration





(32) 2-butanone (M)

9.20min 3.33ug/L

response 1690

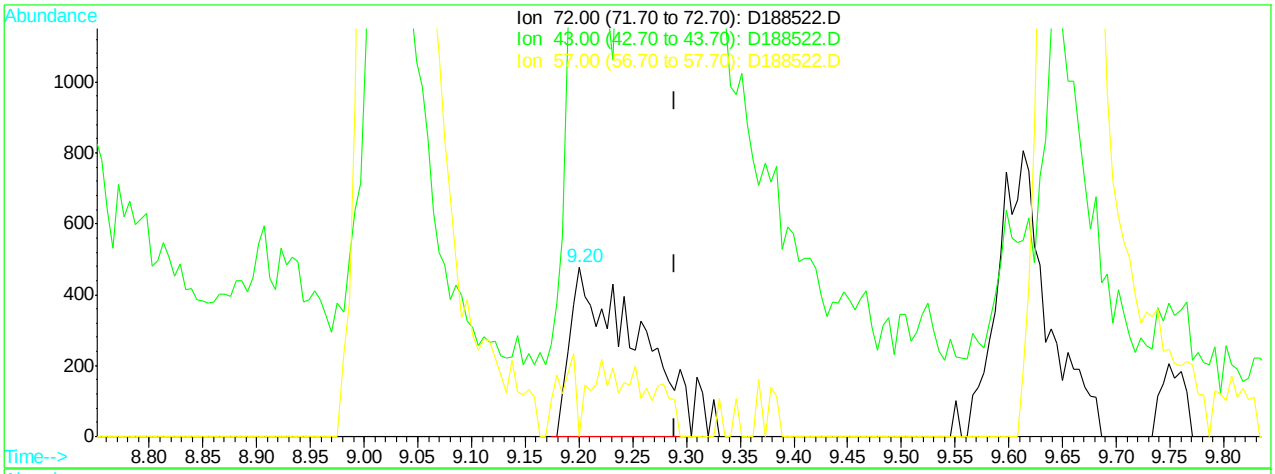
Ion	Exp%	Act%
72.00	100	100
43.00	297.10	204.20#
57.00	33.90	15.03#
0.00	0.00	0.00

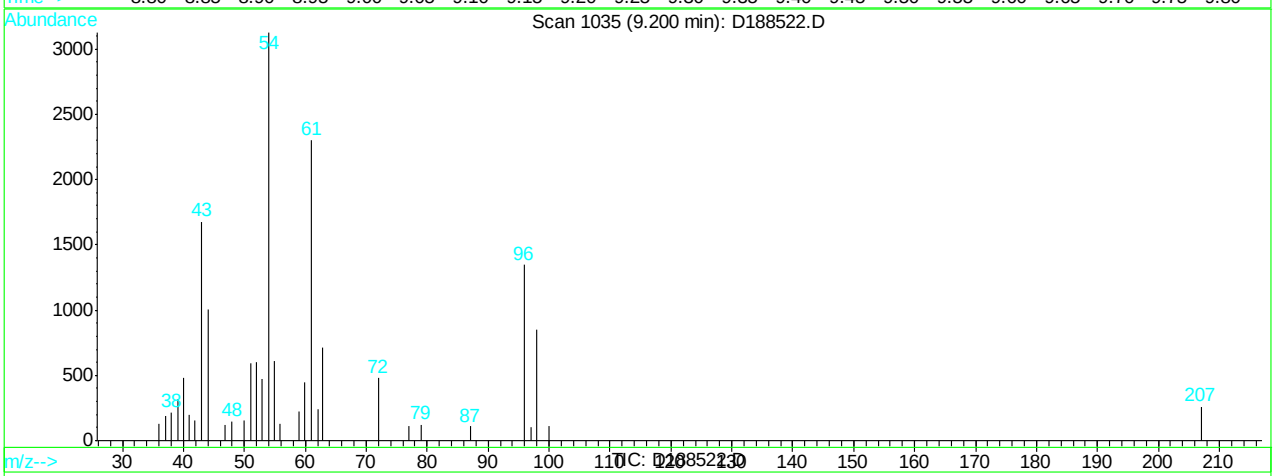
D188522.D MD7671.M Fri Oct 28 16:50:29 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:38:39 2011
Response via : Multiple Level Calibration





(32) 2-butanone (M)

9.20min 3.99ug/L m

response 2022

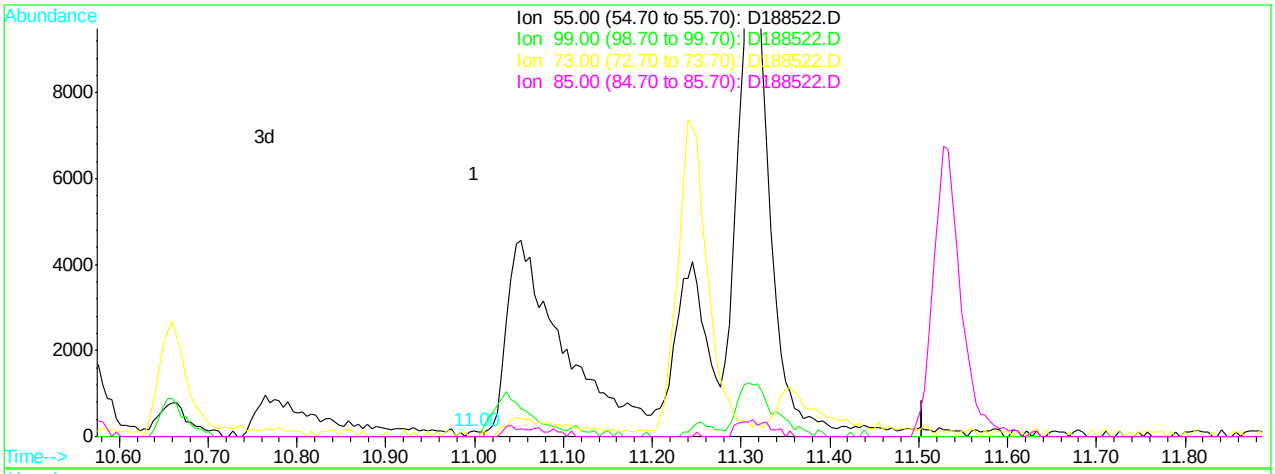
Ion	Exp%	Act%
72.00	100	100
43.00	297.10	170.67#
57.00	33.90	12.56#
0.00	0.00	0.00

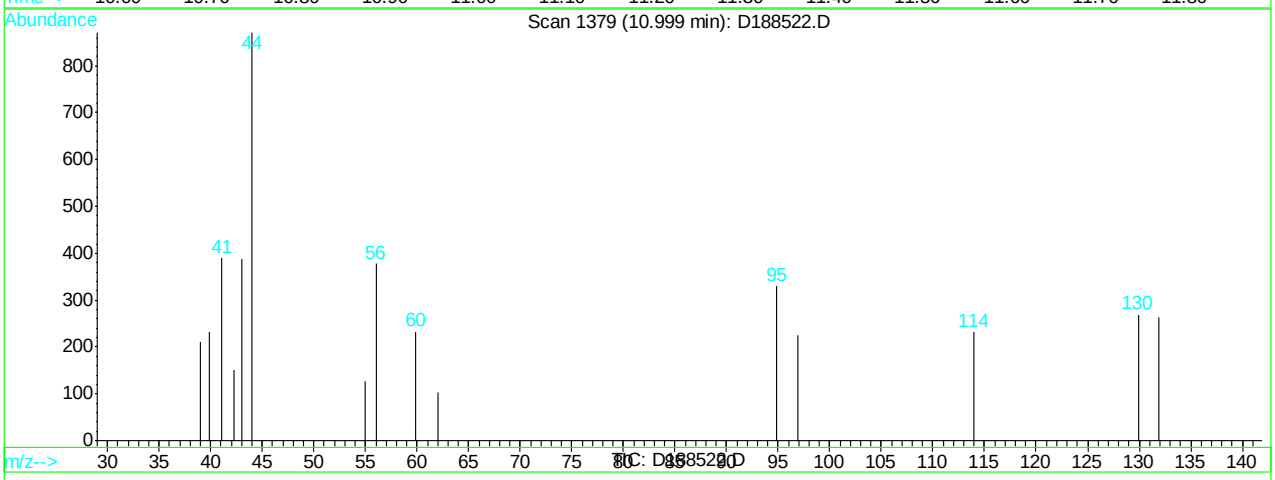
D188522.D MD7671.M Fri Oct 28 16:50:42 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 16:50 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:02:22 2011
Response via : Multiple Level Calibration





(64) Ethyl Acrylate

11.00min 0.03ug/L

response 149

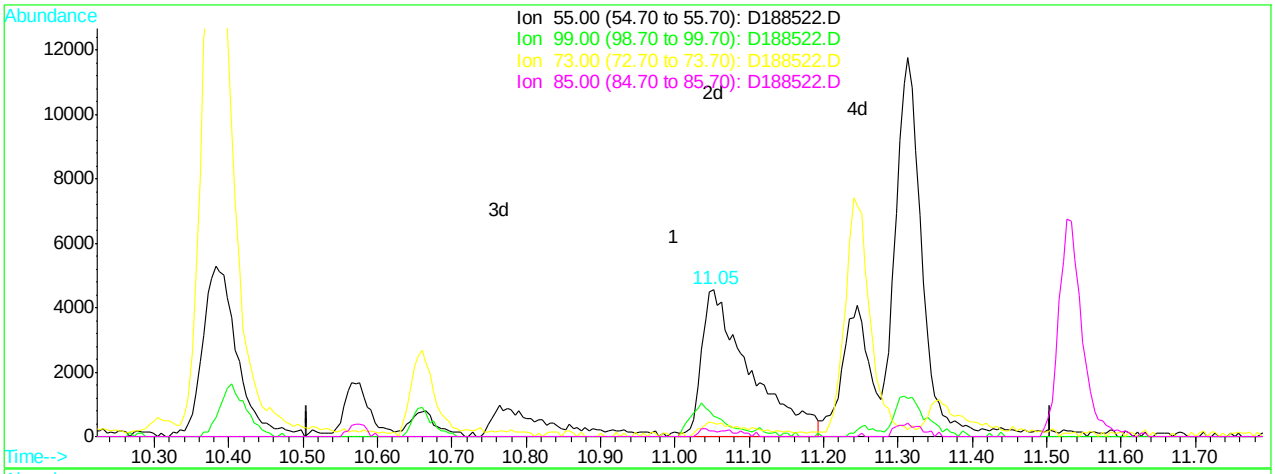
Ion	Exp%	Act%
55.00	100	100
99.00	15.30	0.00#
73.00	7.50	0.00#
85.00	5.00	0.00#

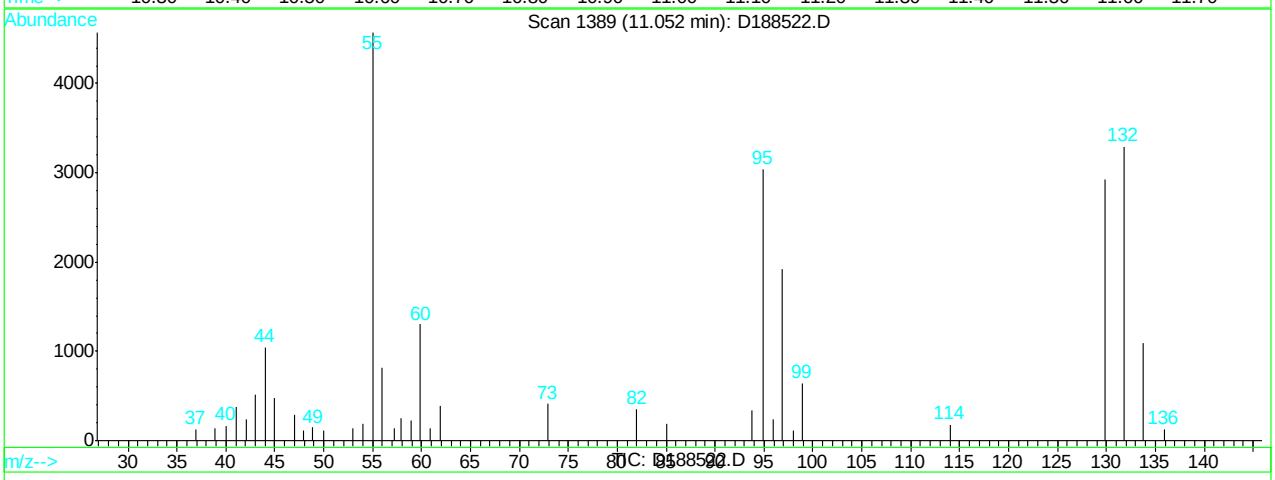
D188522.D MD7671.M Fri Oct 28 17:16:28 2011 RPT1

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D188522.D Vial: 5
Acq On : 28 Oct 2011 10:52 am Operator: EmilyT
Sample : IC7671-5 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 17:17 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 17:02:22 2011
Response via : Multiple Level Calibration





(64) Ethyl Acrylate

11.05min 4.09ug/L m

response 20361

Ion	Exp%	Act%
55.00	100	100
99.00	15.30	0.00#
73.00	7.50	0.00#
85.00	5.00	0.00#

D188522.D MD7671.M Fri Oct 28 17:17:06 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188523.D Vial: 6
Acq On : 28 Oct 2011 11:22 am Operator: EmilyT
Sample : IC7671-10 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:28 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	192974	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	313710	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	501139	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	468033	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	267563	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.76	113	31007	9.06 ug/L	0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 18.12%#		
45) 1,2-dichloroethane-d4 (s)	10.18	65	36901	8.97 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 17.94%#		
75) toluene-d8 (s)	12.38	98	122181	9.13 ug/L	0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 18.26%#		
99) 4-bromofluorobenzene (s)	15.28	95	62536	10.28 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 20.56%#		

Target Compounds					Qvalue
2) 1,4-dioxane	11.38	88	8982	312.50 ug/L #	89
3) tertiary butyl alcohol	7.63	59	23169	46.20 ug/L	87
6) chlorodifluoromethane	4.24	51	38095	9.33 ug/L	96
7) dichlorodifluoromethane	4.23	85	44839	9.64 ug/L	96
8) chloromethane	4.55	50	46134	9.31 ug/L	99
9) vinyl chloride	4.81	62	45501	9.46 ug/L	99
10) bromomethane	5.45	94	29099	9.50 ug/L	97
11) chloroethane	5.62	64	27122	9.69 ug/L	99
13) trichlorofluoromethane	6.14	101	52234	9.39 ug/L	99
14) pentane	6.23	43	71092	9.17 ug/L	96
15) ethyl ether	6.52	74	21237	8.99 ug/L	98
16) acrolein	6.68	56	75842	85.00 ug/L	98
18) 1,1-dichloroethene	6.92	96	34339	9.21 ug/L	96
19) acetone	6.92	58	3831	9.56 ug/L	93
20) allyl chloride	7.41	41	76566	9.71 ug/L	96
21) acetonitrile	7.26	40	21698	92.28 ug/L	98
23) iodomethane	7.17	142	58063	9.31 ug/L	99
24) iso-butyl alcohol	10.00	74	1802	89.64 ug/L	62
25) carbon disulfide	7.33	76	111601	9.27 ug/L	99
26) methylene chloride	7.56	84	39469	9.18 ug/L	95
27) methyl acetate	7.40	43	29244	8.70 ug/L	97
28) methyl tert butyl ether	7.96	73	114332	9.34 ug/L	98
29) trans-1,2-dichloroethene	7.98	96	36168	9.18 ug/L	96
30) di-isopropyl ether	8.57	45	120065	9.45 ug/L	90
31) ethyl tert-butyl ether	9.02	59	115200	9.40 ug/L	99
32) 2-butanone	9.18	72	4292	8.58 ug/L	65
33) 1,1-dichloroethane	8.50	63	64312	9.29 ug/L	99
34) chloroprene	8.65	53	52748	9.22 ug/L	99
35) acrylonitrile	7.84	53	70818	44.76 ug/L	99
36) vinyl acetate	8.53	86	6945	9.83 ug/L	83
37) ethyl acetate	9.25	45	3883	7.99 ug/L #	17
38) 2,2-dichloropropane	9.26	77	55489	9.40 ug/L	96
39) cis-1,2-dichloroethene	9.22	96	39164	9.22 ug/L	94

(#) = qualifier out of range (m) = manual integration
D188523.D MD7671.M Mon Oct 31 08:30:26 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188523.D Vial: 6
Acq On : 28 Oct 2011 11:22 am Operator: EmilyT
Sample : IC7671-10 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:28 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.20	54	57162	93.35 ug/L	96
41) bromochloromethane	9.51	128	18106	8.96 ug/L	93
42) tetrahydrofuran	9.59	72	4980	8.59 ug/L #	76
43) chloroform	9.57	83	59233	9.32 ug/L	99
46) freon 113	6.93	151	26563	9.07 ug/L	99
47) methacrylonitrile	9.44	41	20345	8.75 ug/L	93
48) t-butyl formate	9.65	59	32876	9.35 ug/L	94
49) 1,1,1-trichloroethane	9.88	97	53525	9.37 ug/L	98
50) tert-amyl methyl ether	10.38	73	108858	9.19 ug/L	99
52) cyclohexane	10.01	84	55202	9.24 ug/L #	100
53) tert amyl alcohol	10.14	55	7889	44.31 ug/L	91
54) 2,2,4-trimethylpentane	10.40	57	136696	9.05 ug/L	99
55) epichlorohydrin	11.88	57	21038	46.81 ug/L	99
56) n-butyl alcohol	10.75	56	54093	449.54 ug/L	99
57) carbon tetrachloride	10.11	117	45015	9.17 ug/L	100
58) 1,1-dichloropropene	10.06	75	48726	9.27 ug/L	97
59) hexane	8.35	57	49452	9.23 ug/L	97
60) benzene	10.31	78	144470	9.42 ug/L	100
61) heptane	10.57	57	25332	8.68 ug/L	99
62) isopropyl acetate	10.23	43	66300	9.05 ug/L	99
63) 1,2-dichloroethane	10.26	62	48049	9.33 ug/L	98
64) Ethyl Acrylate	11.03	55	41948	8.49 ug/L	98
65) trichloroethene	11.03	95	36293	9.23 ug/L	95
66) 2-nitropropane	11.72	43	10800	8.54 ug/L	96
67) 2-chloroethyl vinyl ether	11.79	63	115939	46.36 ug/L	98
68) methyl methacrylate	11.29	100	9859	8.40 ug/L #	75
69) tert-amyl ethyl ether	11.24	87	51462	9.28 ug/L	99
70) 1,2-dichloropropane	11.25	63	36929	9.15 ug/L	100
71) methylcyclohexane	11.31	83	62621	9.26 ug/L	96
72) dibromomethane	11.40	93	22410	9.31 ug/L	98
73) bromodichloromethane	11.53	83	45751	9.17 ug/L	96
74) cis-1,3-dichloropropene	12.02	75	58872	9.27 ug/L	99
76) 4-methyl-2-pentanone	12.14	58	15725	9.18 ug/L	93
77) toluene	12.45	92	89792	9.36 ug/L	99
78) 3-methyl-1-butanol	12.13	70	22358	191.58 ug/L	96
79) trans-1,3-dichloropropene	12.61	75	54995	9.03 ug/L	98
80) ethyl methacrylate	12.66	69	50269	9.18 ug/L	99
81) 1,1,2-trichloroethane	12.83	83	27927	9.26 ug/L	99
82) 2-hexanone	13.07	58	15151	9.22 ug/L	100
84) tetrachloroethene	13.10	166	38566	9.30 ug/L	98
85) 1,3-dichloropropane	13.02	76	57307	9.50 ug/L	99
86) butyl acetate	13.17	56	20674	9.67 ug/L	95
87) 3,3-dimethyl-1-butanol	13.22	57	41110	98.18 ug/L	92
88) dibromochloromethane	13.31	129	34802	8.55 ug/L	99
89) 1,2-dibromoethane	13.49	107	33596	9.41 ug/L	95
90) chlorobenzene	14.03	112	98131	9.34 ug/L	98
91) 1,1,1,2-tetrachloroethane	14.08	131	35130	9.16 ug/L	99
92) ethylbenzene	14.12	91	170444	9.46 ug/L	99
93) m,p-xylene	14.24	106	134937	18.83 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188523.D Vial: 6
Acq On : 28 Oct 2011 11:22 am Operator: EmilyT
Sample : IC7671-10 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:28 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

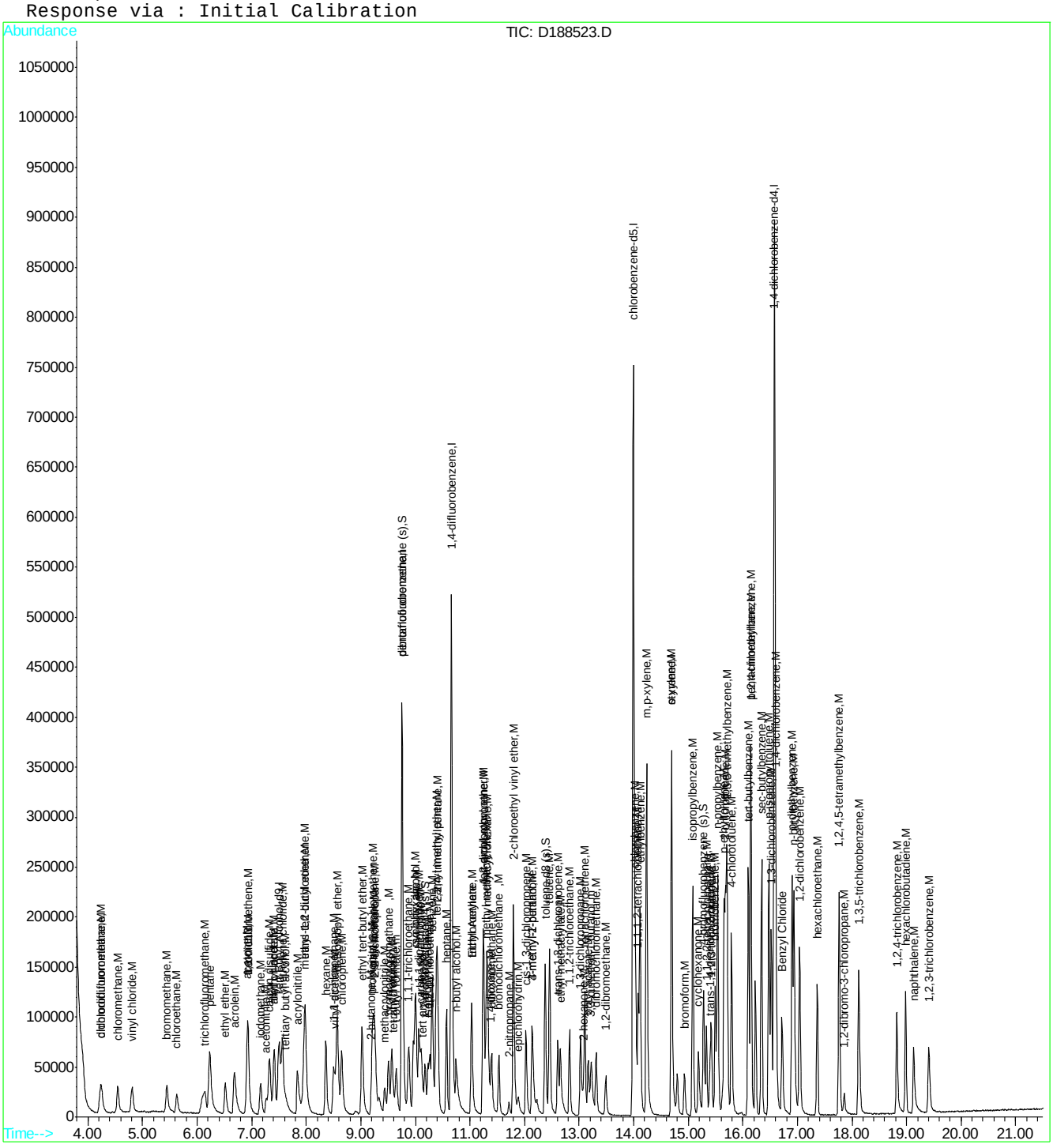
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
94)	o-xylene	14.69	106	67165	9.44	ug/L		100
95)	styrene	14.70	104	113581	9.24	ug/L		100
96)	bromoform	14.93	173	24541	9.09	ug/L		99
98)	isopropylbenzene	15.08	105	180325	9.48	ug/L		100
100)	bromobenzene	15.50	156	45562	9.30	ug/L		99
101)	cyclohexanone	15.19	55	45763	103.94	ug/L		98
102)	1,1,2,2-tetrachloroethane	15.33	83	50464	9.60	ug/L		99
103)	trans-1,4-dichloro-2-buten	15.39	53	12899	8.55	ug/L		96
104)	1,2,3-trichloropropane	15.42	110	14079	9.53	ug/L		95
105)	n-propylbenzene	15.54	91	213627	9.63	ug/L		99
106)	p-ethyltoluene	15.65	105	165528	9.53	ug/L		99
107)	2-chlorotoluene	15.69	126	42278	9.18	ug/L		94
108)	4-chlorotoluene	15.79	91	134118	9.19	ug/L		98
109)	1,3,5-trimethylbenzene	15.71	105	159461	9.36	ug/L		98
110)	tert-butylbenzene	16.10	119	134562	9.06	ug/L		98
111)	pentachloroethane	16.15	167	28896	9.10	ug/L		95
112)	1,2,4-trimethylbenzene	16.15	105	161232	9.50	ug/L		98
113)	sec-butylbenzene	16.34	105	204462	9.53	ug/L		98
114)	1,3-dichlorobenzene	16.52	146	88273	9.45	ug/L		96
115)	p-isopropyltoluene	16.48	119	169130	9.63	ug/L		98
116)	1,4-dichlorobenzene	16.61	146	95535	9.31	ug/L		99
117)	Benzyl Chloride	16.72	91	94321	8.95	ug/L		100
118)	p-diethylbenzene	16.90	119	101709	9.50	ug/L		100
119)	1,2-dichlorobenzene	17.04	146	89344	9.50	ug/L		99
120)	n-butylbenzene	16.94	92	92100	9.25	ug/L		98
121)	1,2,4,5-tetramethylbenzene	17.77	119	149787	9.00	ug/L		98
122)	1,2-dibromo-3-chloropropan	17.85	75	8022	9.11	ug/L		84
123)	1,3,5-trichlorobenzene	18.12	180	66489	8.87	ug/L		99
124)	1,2,4-trichlorobenzene	18.82	180	49504	7.94	ug/L		99
125)	hexachlorobutadiene	18.99	225	31594	8.78	ug/L	#	68
126)	naphthalene	19.13	128	94104	7.46	ug/L		100
127)	1,2,3-trichlorobenzene	19.41	180	35180	8.50	ug/L		99
128)	hexachloroethane	17.36	119	28084	8.91	ug/L		100

(#) = qualifier out of range (m) = manual integration
D188523.D MD7671.M Mon Oct 31 08:30:27 2011 RPT1 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188523.D Vial: 6
Acq On : 28 Oct 2011 11:22 am Operator: EmilyT
Sample : IC7671-10 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:28 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:30:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188524.D Vial: 7
Acq On : 28 Oct 2011 11:51 am Operator: EmilyT
Sample : IC7671-20 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	176837	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	320054	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	513621	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	474892	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	273219	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	76794	21.99 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 43.98%#		
45) 1,2-dichloroethane-d4 (s)	10.17	65	92850	22.12 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 44.24%#		
75) toluene-d8 (s)	12.37	98	297049	21.66 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 43.32%#		
99) 4-bromofluorobenzene (s)	15.27	95	124304	20.02 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 40.04%#		

Target Compounds

					Qvalue
2) 1,4-dioxane	11.37	88	17597	517.87 ug/L #	98
3) tertiary butyl alcohol	7.62	59	49691	108.12 ug/L	94
6) chlorodifluoromethane	4.23	51	92802	22.27 ug/L	97
7) dichlorodifluoromethane	4.23	85	112136	23.64 ug/L	99
8) chloromethane	4.55	50	114749	22.71 ug/L	98
9) vinyl chloride	4.81	62	114471	23.32 ug/L	99
10) bromomethane	5.44	94	73475	23.51 ug/L	99
11) chloroethane	5.62	64	67309	23.56 ug/L	99
13) trichlorofluoromethane	6.14	101	133262	23.47 ug/L	100
14) pentane	6.23	43	173786	21.98 ug/L	99
15) ethyl ether	6.51	74	54674	22.69 ug/L	95
16) acrolein	6.68	56	185082	203.33 ug/L	99
18) 1,1-dichloroethene	6.92	96	84019	22.08 ug/L	97
19) acetone	6.90	58	8787	21.48 ug/L	97
20) allyl chloride	7.41	41	182802	22.73 ug/L	99
21) acetonitrile	7.26	40	45855	191.15 ug/L	98
23) iodomethane	7.16	142	144746	22.75 ug/L	99
24) iso-butyl alcohol	9.98	74	4312	210.26 ug/L	89
25) carbon disulfide	7.32	76	283406	23.06 ug/L	99
26) methylene chloride	7.56	84	98570	22.48 ug/L	99
27) methyl acetate	7.38	43	72063	21.01 ug/L	98
28) methyl tert butyl ether	7.96	73	282102	22.60 ug/L	99
29) trans-1,2-dichloroethene	7.98	96	90675	22.55 ug/L	98
30) di-isopropyl ether	8.56	45	293219	22.62 ug/L	96
31) ethyl tert-butyl ether	9.02	59	281886	22.56 ug/L	99
32) 2-butanone	9.17	72	11015	21.57 ug/L	84
33) 1,1-dichloroethane	8.50	63	161325	22.84 ug/L	99
34) chloroprene	8.64	53	131899	22.60 ug/L	99
35) acrylonitrile	7.82	53	177436	109.92 ug/L	98
36) vinyl acetate	8.51	86	18474	21.78 ug/L	98
37) ethyl acetate	9.23	45	10898	21.97 ug/L	97
38) 2,2-dichloropropane	9.25	77	134633	22.35 ug/L	98
39) cis-1,2-dichloroethene	9.21	96	98585	22.76 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188524.D Vial: 7
Acq On : 28 Oct 2011 11:51 am Operator: EmilyT
Sample : IC7671-20 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.19	54	133469	213.65 ug/L	98
41) bromochloromethane	9.51	128	46524	22.57 ug/L	97
42) tetrahydrofuran	9.58	72	12948	21.88 ug/L	96
43) chloroform	9.56	83	148830	22.96 ug/L	99
46) freon 113	6.93	151	65902	22.05 ug/L	99
47) methacrylonitrile	9.42	41	52385	22.09 ug/L	99
48) t-butyl formate	9.64	59	81017	22.58 ug/L	99
49) 1,1,1-trichloroethane	9.88	97	133375	22.88 ug/L	98
50) tert-amyl methyl ether	10.38	73	266080	22.02 ug/L	99
52) cyclohexane	10.00	84	135411	22.11 ug/L #	100
53) tert amyl alcohol	10.13	55	17445	95.60 ug/L	98
54) 2,2,4-trimethylpentane	10.40	57	347181	22.44 ug/L	99
55) epichlorohydrin	11.88	57	48738	105.80 ug/L	100
56) n-butyl alcohol	10.73	56	128140	1039.03 ug/L	98
57) carbon tetrachloride	10.10	117	112476	22.35 ug/L	98
58) 1,1-dichloropropene	10.06	75	119564	22.21 ug/L	98
59) hexane	8.35	57	124611	22.70 ug/L	99
60) benzene	10.31	78	356986	22.72 ug/L	99
61) heptane	10.56	57	68947	23.04 ug/L	99
62) isopropyl acetate	10.22	43	160918	21.44 ug/L	99
63) 1,2-dichloroethane	10.26	62	119316	22.59 ug/L	99
64) Ethyl Acrylate	11.01	55	108083	21.35 ug/L	98
65) trichloroethene	11.02	95	89945	22.33 ug/L	99
66) 2-nitropropane	11.71	43	26663	20.57 ug/L	99
67) 2-chloroethyl vinyl ether	11.79	63	284379	110.96 ug/L	99
68) methyl methacrylate	11.28	100	26051	21.67 ug/L	98
69) tert-amyl ethyl ether	11.24	87	131496	23.15 ug/L	99
70) 1,2-dichloropropane	11.25	63	93051	22.50 ug/L	100
71) methylcyclohexane	11.31	83	156557	22.60 ug/L	97
72) dibromomethane	11.39	93	55482	22.50 ug/L	99
73) bromodichloromethane	11.52	83	116441	22.76 ug/L	99
74) cis-1,3-dichloropropene	12.02	75	149410	22.96 ug/L	98
76) 4-methyl-2-pentanone	12.13	58	38521	21.95 ug/L	96
77) toluene	12.45	92	221255	22.51 ug/L	99
78) 3-methyl-1-butanol	12.13	70	52323	437.45 ug/L	96
79) trans-1,3-dichloropropene	12.60	75	139215	22.31 ug/L	99
80) ethyl methacrylate	12.65	69	123645	22.03 ug/L	99
81) 1,1,2-trichloroethane	12.82	83	69075	22.34 ug/L	99
82) 2-hexanone	13.05	58	37894	22.49 ug/L	97
84) tetrachloroethene	13.10	166	96824	23.00 ug/L	99
85) 1,3-dichloropropane	13.02	76	141233	23.07 ug/L	99
86) butyl acetate	13.16	56	55270	21.23 ug/L	98
87) 3,3-dimethyl-1-butanol	13.21	57	92090	216.76 ug/L	98
88) dibromochloromethane	13.31	129	90332	21.86 ug/L	99
89) 1,2-dibromoethane	13.48	107	85026	23.46 ug/L	99
90) chlorobenzene	14.02	112	241902	22.68 ug/L	99
91) 1,1,1,2-tetrachloroethane	14.08	131	88889	22.85 ug/L	99
92) ethylbenzene	14.11	91	422182	23.09 ug/L	99
93) m,p-xylene	14.23	106	333415	45.86 ug/L	99

(#) = qualifier out of range (m) = manual integration
D188524.D MD7671.M Mon Oct 31 08:30:18 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188524.D Vial: 7
Acq On : 28 Oct 2011 11:51 am Operator: EmilyT
Sample : IC7671-20 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:29 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 16:20:57 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

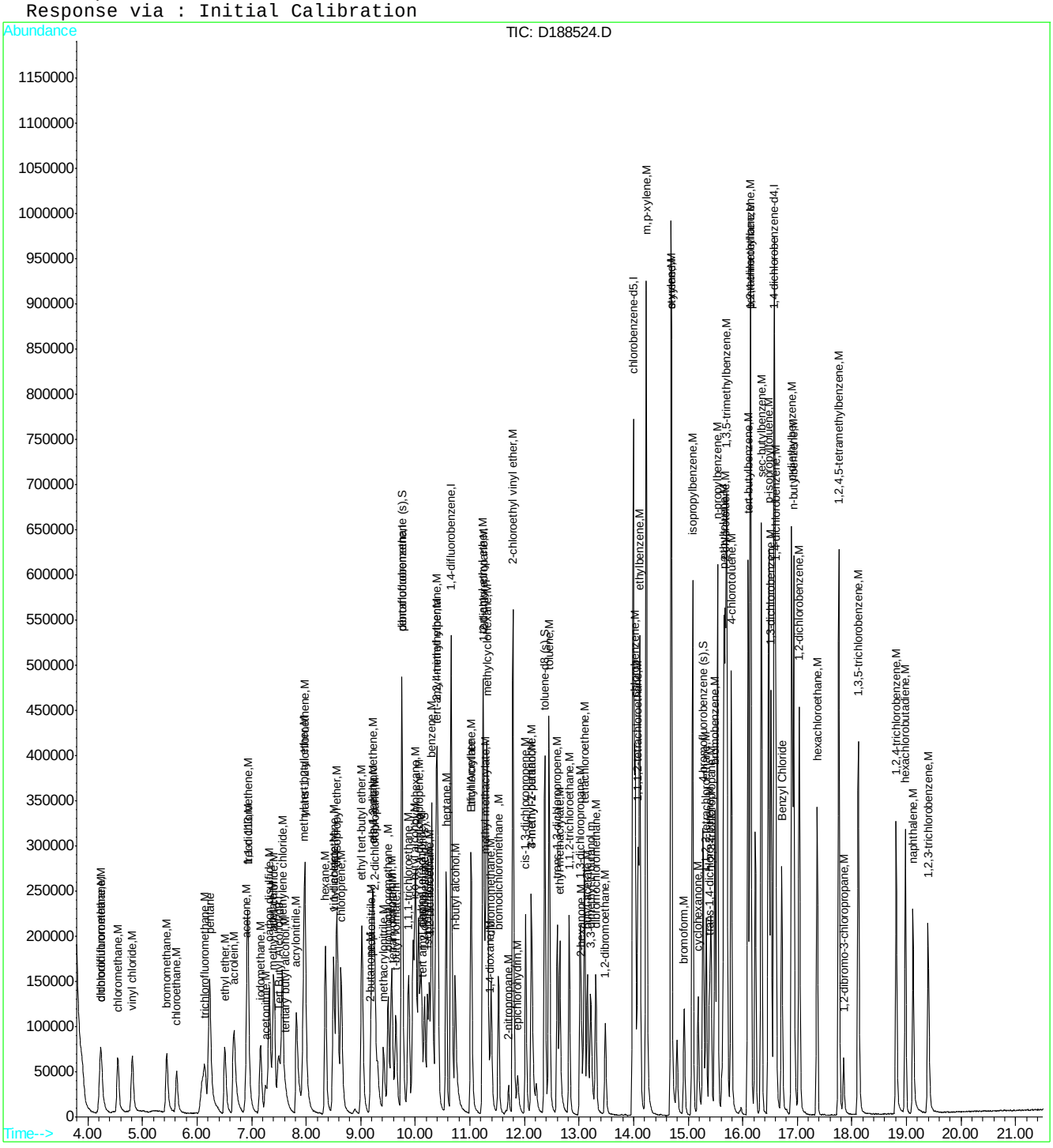
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	o-xylene	14.69	106	167709	23.22	ug/L	99
95)	styrene	14.69	104	285964	22.92	ug/L	99
96)	bromoform	14.92	173	65293	20.82	ug/L	99
98)	isopropylbenzene	15.08	105	443777	22.85	ug/L	99
100)	bromobenzene	15.49	156	113235	22.64	ug/L	96
101)	cyclohexanone	15.18	55	82925	184.45	ug/L	98
102)	1,1,2,2-tetrachloroethane	15.33	83	121116	22.57	ug/L	98
103)	trans-1,4-dichloro-2-buten	15.39	53	33814	21.95	ug/L	95
104)	1,2,3-trichloropropane	15.42	110	34248	22.70	ug/L	85
105)	n-propylbenzene	15.54	91	523219	23.09	ug/L	99
106)	p-ethyltoluene	15.65	105	414023	23.34	ug/L	100
107)	2-chlorotoluene	15.68	126	105155	22.36	ug/L	99
108)	4-chlorotoluene	15.79	91	331040	22.21	ug/L	99
109)	1,3,5-trimethylbenzene	15.71	105	386935	22.24	ug/L	99
110)	tert-butylbenzene	16.10	119	330543	21.80	ug/L	99
111)	pentachloroethane	16.15	167	72851	22.48	ug/L	98
112)	1,2,4-trimethylbenzene	16.14	105	398533	23.00	ug/L	99
113)	sec-butylbenzene	16.34	105	502634	22.94	ug/L	99
114)	1,3-dichlorobenzene	16.52	146	221052	23.16	ug/L	98
115)	p-isopropyltoluene	16.48	119	416852	23.24	ug/L	98
116)	1,4-dichlorobenzene	16.60	146	234973	22.42	ug/L	99
117)	Benzyl Chloride	16.71	91	238433	22.16	ug/L	100
118)	p-diethylbenzene	16.90	119	252234	23.08	ug/L	98
119)	1,2-dichlorobenzene	17.03	146	221152	23.02	ug/L	99
120)	n-butylbenzene	16.93	92	231126	22.73	ug/L	99
121)	1,2,4,5-tetramethylbenzene	17.76	119	380318	22.37	ug/L	100
122)	1,2-dibromo-3-chloropropan	17.85	75	19652	21.85	ug/L	96
123)	1,3,5-trichlorobenzene	18.11	180	169559	22.15	ug/L	100
124)	1,2,4-trichlorobenzene	18.81	180	134528	20.65	ug/L	100
125)	hexachlorobutadiene	18.98	225	80868	22.01	ug/L	99
126)	naphthalene	19.12	128	255225	20.66	ug/L	99
127)	1,2,3-trichlorobenzene	19.40	180	94598	20.67	ug/L	97
128)	hexachloroethane	17.36	119	73012	22.69	ug/L	99

(#) = qualifier out of range (m) = manual integration
D188524.D MD7671.M Mon Oct 31 08:30:18 2011 RPT1 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188524.D Vial: 7
Acq On : 28 Oct 2011 11:51 am Operator: EmilyT
Sample : IC7671-20 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:29 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:30:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188525.D Vial: 8
Acq On : 28 Oct 2011 12:20 pm Operator: EmilyT
Sample : ICC7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:31 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 12:53:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.51	65	191813	500.00	ug/L	0.00
4) pentafluorobenzene	9.75	168	325654	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	520408	50.00	ug/L	0.00
83) chlorobenzene-d5	13.99	117	485746	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	276864	50.00	ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	186740	60.17	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 120.34%			
45) 1,2-dichloroethane-d4 (s)	10.17	65	227355	61.89	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 123.78%			
75) toluene-d8 (s)	12.37	98	729206	60.22	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 120.44%			
99) 4-bromofluorobenzene (s)	15.27	95	307051	53.57	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 107.14%			

Target Compounds

						Qvalue
2) 1,4-dioxane	11.36	88	51249	1482.60	ug/L #	100
3) tertiary butyl alcohol	7.61	59	132227	272.71	ug/L	100
6) chlorodifluoromethane	4.24	51	219138	52.17	ug/L	100
7) dichlorodifluoromethane	4.23	85	248725	51.88	ug/L	100
8) chloromethane	4.56	50	265481	52.63	ug/L	100
9) vinyl chloride	4.82	62	262259	53.38	ug/L	100
10) bromomethane	5.44	94	163213	51.06	ug/L	100
11) chloroethane	5.62	64	159253	53.67	ug/L	100
13) trichlorofluoromethane	6.14	101	304460	53.72	ug/L	100
14) pentane	6.23	43	413344	51.97	ug/L	100
15) ethyl ether	6.51	74	134058	56.46	ug/L	100
16) acrolein	6.67	56	486575	525.36	ug/L	100
18) 1,1-dichloroethene	6.92	96	201226	52.77	ug/L	100
19) acetone	6.89	58	22575	55.21	ug/L	100
20) allyl chloride	7.40	41	432578	50.56	ug/L	100
21) acetonitrile	7.25	40	133603	594.20	ug/L	100
23) iodomethane	7.16	142	353825	55.66	ug/L	100
24) iso-butyl alcohol	9.98	74	11455	445.74	ug/L	100
25) carbon disulfide	7.32	76	676502	55.23	ug/L	100
26) methylene chloride	7.56	84	236996	54.02	ug/L	100
27) methyl acetate	7.38	43	178570	51.04	ug/L	100
28) methyl tert butyl ether	7.96	73	687005	55.25	ug/L	100
29) trans-1,2-dichloroethene	7.97	96	215402	53.70	ug/L	100
30) di-isopropyl ether	8.56	45	713507	54.45	ug/L	100
31) ethyl tert-butyl ether	9.02	59	689651	54.83	ug/L	100
32) 2-butanone	9.16	72	28237	56.43	ug/L	98
33) 1,1-dichloroethane	8.50	63	392503	55.40	ug/L	100
34) chloroprene	8.64	53	319744	54.82	ug/L	100
35) acrylonitrile	7.81	53	438320	285.55	ug/L	100
36) vinyl acetate	8.50	86	44508	56.34	ug/L	100
37) ethyl acetate	9.22	45	27707	91.33	ug/L	100
38) 2,2-dichloropropane	9.25	77	323691	53.25	ug/L	100
39) cis-1,2-dichloroethene	9.21	96	237232	55.12	ug/L	100

(#) = qualifier out of range (m) = manual integration
D188525.D MD7671.M Mon Oct 31 08:32:15 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188525.D Vial: 8
Acq On : 28 Oct 2011 12:20 pm Operator: EmilyT
Sample : ICC7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:31 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 12:53:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.18	54	338169	580.31 ug/L	100
41) bromochloromethane	9.50	128	112614	56.84 ug/L	100
42) tetrahydrofuran	9.58	72	32693	59.09 ug/L	100
43) chloroform	9.56	83	361400	56.14 ug/L	100
46) freon 113	6.93	151	153401	54.03 ug/L	100
47) methacrylonitrile	9.41	41	132784	56.49 ug/L	100
48) t-butyl formate	9.64	59	203149	57.71 ug/L	100
49) 1,1,1-trichloroethane	9.88	97	324795	55.95 ug/L	100
50) tert-amyl methyl ether	10.38	73	653589	54.03 ug/L	100
52) cyclohexane	10.01	84	322607	52.74 ug/L #	100
53) tert amyl alcohol	10.13	55	45445	240.50 ug/L	100
54) 2,2,4-trimethylpentane	10.40	57	795160	52.15 ug/L	100
55) epichlorohydrin	11.87	57	120320	256.08 ug/L	100
56) n-butyl alcohol	10.72	56	341951	2810.05 ug/L	100
57) carbon tetrachloride	10.10	117	276327	55.91 ug/L	100
58) 1,1-dichloropropene	10.06	75	292660	54.35 ug/L	100
59) hexane	8.35	57	282752	51.45 ug/L	100
60) benzene	10.30	78	867560	55.00 ug/L	100
61) heptane	10.56	57	158668	53.43 ug/L	100
62) isopropyl acetate	10.22	43	408849	59.21 ug/L	100
63) 1,2-dichloroethane	10.26	62	294067	56.57 ug/L	100
64) Ethyl Acrylate	11.01	55	283116	60.26 ug/L	100
65) trichloroethene	11.02	95	219830	55.12 ug/L	100
66) 2-nitropropane	11.70	43	70735	59.86 ug/L	100
67) 2-chloroethyl vinyl ether	11.79	63	703792	283.45 ug/L	100
68) methyl methacrylate	11.28	100	65712	56.32 ug/L	100
69) tert-amyl ethyl ether	11.24	87	324803	57.46 ug/L	100
70) 1,2-dichloropropane	11.25	63	229331	55.98 ug/L	100
71) methylcyclohexane	11.31	83	360775	52.30 ug/L	100
72) dibromomethane	11.39	93	136919	56.72 ug/L	100
73) bromodichloromethane	11.52	83	290264	58.11 ug/L	100
74) cis-1,3-dichloropropene	12.02	75	367608	57.33 ug/L	100
76) 4-methyl-2-pentanone	12.13	58	95962	55.50 ug/L	100
77) toluene	12.45	92	544016	55.98 ug/L	100
78) 3-methyl-1-butanol	12.12	70	137500	1189.24 ug/L	100
79) trans-1,3-dichloropropene	12.60	75	346468	58.18 ug/L	100
80) ethyl methacrylate	12.64	69	310408	56.22 ug/L	100
81) 1,1,2-trichloroethane	12.82	83	168551	56.79 ug/L	100
82) 2-hexanone	13.04	58	87564	51.99 ug/L	100
84) tetrachloroethene	13.10	166	236262	56.90 ug/L	100
85) 1,3-dichloropropane	13.02	76	346581	57.38 ug/L	100
86) butyl acetate	13.14	56	144326	47.04 ug/L	100
87) 3,3-dimethyl-1-butanol	13.21	57	245978	584.85 ug/L	100
88) dibromochloromethane	13.31	129	227385	61.39 ug/L	100
89) 1,2-dibromoethane	13.48	107	211359	59.61 ug/L	100
90) chlorobenzene	14.02	112	590367	56.13 ug/L	100
91) 1,1,1,2-tetrachloroethane	14.08	131	221304	58.33 ug/L	100
92) ethylbenzene	14.11	91	1023674	55.99 ug/L	100
93) m,p-xylene	14.23	106	811395	111.40 ug/L	100

(#) = qualifier out of range (m) = manual integration
D188525.D MD7671.M Mon Oct 31 08:32:15 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188525.D Vial: 8
Acq On : 28 Oct 2011 12:20 pm Operator: EmilyT
Sample : ICC7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:31 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 12:53:07 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

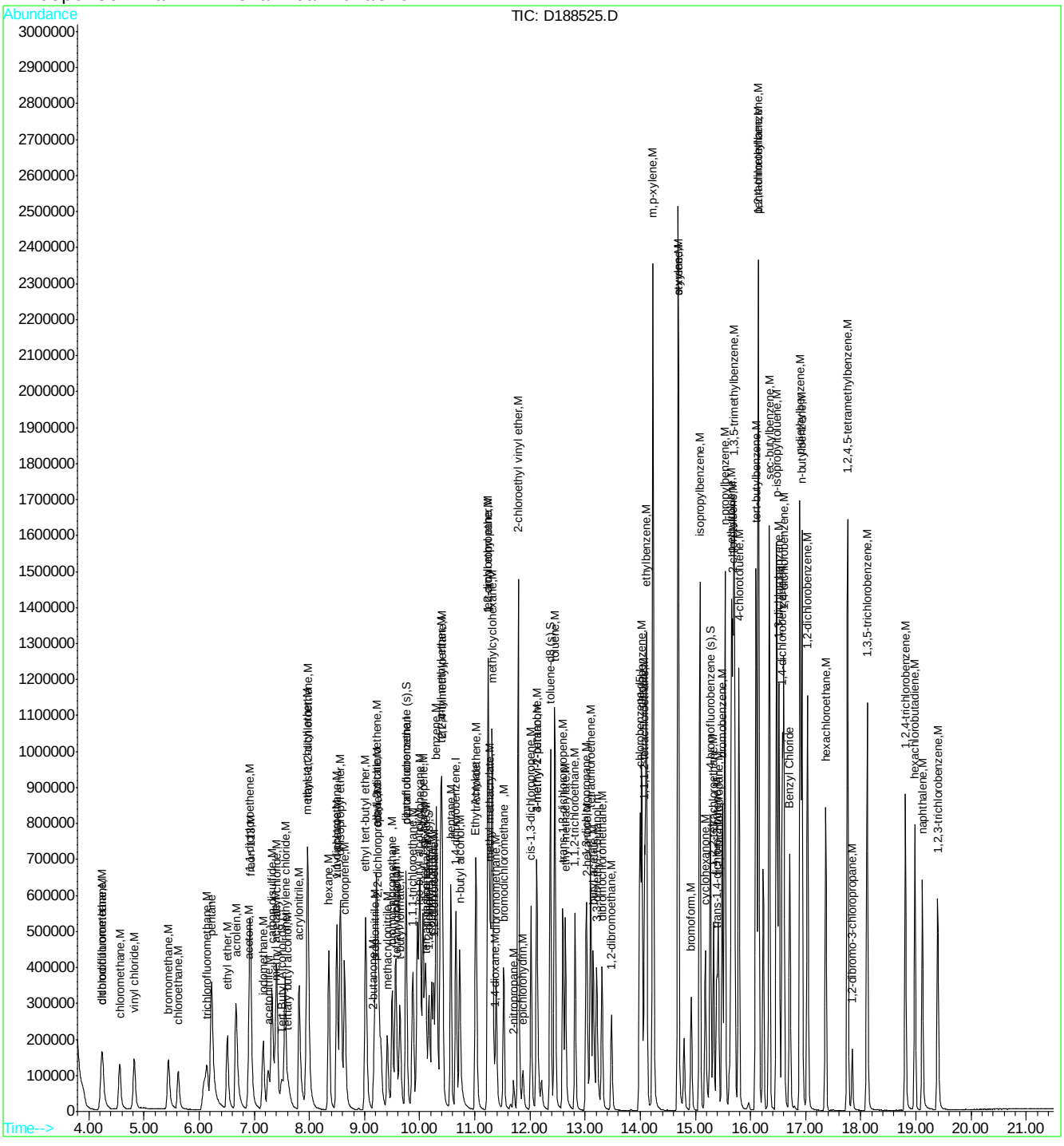
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	o-xylene	14.69	106	408879	57.06	ug/L	100
95)	styrene	14.68	104	705754	56.69	ug/L	100
96)	bromoform	14.92	173	167089	60.29	ug/L	100
98)	isopropylbenzene	15.08	105	1073811	54.71	ug/L	100
100)	bromobenzene	15.49	156	277012	56.27	ug/L	100
101)	cyclohexanone	15.18	55	263197	629.11	ug/L	100
102)	1,1,2,2-tetrachloroethane	15.33	83	291174	53.95	ug/L	100
103)	trans-1,4-dichloro-2-buten	15.38	53	84528	56.25	ug/L	100
104)	1,2,3-trichloropropane	15.41	110	83642	55.89	ug/L	100
105)	n-propylbenzene	15.54	91	1258396	54.56	ug/L	100
106)	p-ethyltoluene	15.65	105	1005715	56.90	ug/L	100
107)	2-chlorotoluene	15.68	126	257006	55.29	ug/L	100
108)	4-chlorotoluene	15.79	91	802455	53.33	ug/L	100
109)	1,3,5-trimethylbenzene	15.71	105	949305	54.00	ug/L	100
110)	tert-butylbenzene	16.09	119	810340	52.94	ug/L	100
111)	pentachloroethane	16.15	167	179524	58.49	ug/L	100
112)	1,2,4-trimethylbenzene	16.14	105	959917	55.22	ug/L	100
113)	sec-butylbenzene	16.34	105	1210658	54.38	ug/L	100
114)	1,3-dichlorobenzene	16.51	146	536897	57.06	ug/L	100
115)	p-isopropyltoluene	16.48	119	1003570	55.59	ug/L	100
116)	1,4-dichlorobenzene	16.60	146	562354	53.31	ug/L	100
117)	Benzyl Chloride	16.71	91	596714	59.54	ug/L	100
118)	p-diethylbenzene	16.89	119	623132	57.67	ug/L	100
119)	1,2-dichlorobenzene	17.03	146	532544	55.68	ug/L	100
120)	n-butylbenzene	16.93	92	561352	57.94	ug/L	100
121)	1,2,4,5-tetramethylbenzene	17.76	119	953379	60.40	ug/L	100
122)	1,2-dibromo-3-chloropropan	17.84	75	48393	61.20	ug/L	100
123)	1,3,5-trichlorobenzene	18.11	180	418905	60.54	ug/L	100
124)	1,2,4-trichlorobenzene	18.81	180	342515	66.30	ug/L	100
125)	hexachlorobutadiene	18.98	225	197615	58.24	ug/L	100
126)	naphthalene	19.12	128	649608	67.03	ug/L	100
127)	1,2,3-trichlorobenzene	19.39	180	243996	67.48	ug/L	100
128)	hexachloroethane	17.36	119	182501	58.65	ug/L	100

(#) = qualifier out of range (m) = manual integration
D188525.D MD7671.M Mon Oct 31 08:32:16 2011 RPT1 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188525.D Vial: 8
Acq On : 28 Oct 2011 12:20 pm Operator: EmilyT
Sample : ICC7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:31 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:31:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188527.D Vial: 10
Acq On : 28 Oct 2011 1:19 pm Operator: EmilyT
Sample : IC7671-100 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 15:04 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 13:16:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.51	65	192225	500.00	ug/L	0.00
4) pentafluorobenzene	9.75	168	329461	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	526413	50.00	ug/L	0.00
83) chlorobenzene-d5	13.99	117	493899	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	282303	50.00	ug/L	0.00

System Monitoring Compounds						
44) dibromofluoromethane (s)	9.75	113	388503	123.72	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 247.44%#			
45) 1,2-dichloroethane-d4 (s)	10.16	65	469971	126.45	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 252.90%#			
75) toluene-d8 (s)	12.37	98	1479859	120.82	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 241.64%#			
99) 4-bromofluorobenzene (s)	15.27	95	633359	108.36	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 216.72%#			

Target Compounds						Qvalue
2) 1,4-dioxane	11.36	88	108013	3118.04	ug/L #	100
3) tertiary butyl alcohol	7.62	59	257877	483.17	ug/L	99
6) chlorodifluoromethane	4.23	51	442568	104.14	ug/L	98
7) dichlorodifluoromethane	4.23	85	495626	102.19	ug/L	99
8) chloromethane	4.56	50	536463	105.13	ug/L	100
9) vinyl chloride	4.83	62	518948	104.38	ug/L	100
10) bromomethane	5.44	94	296839	91.79	ug/L	99
11) chloroethane	5.61	64	320745	106.84	ug/L	98
13) trichlorofluoromethane	6.13	101	618992	107.95	ug/L	97
14) pentane	6.22	43	831936	103.40	ug/L	99
15) ethyl ether	6.51	74	269782	112.31	ug/L	98
16) acrolein	6.68	56	36235	38.67	ug/L	95
18) 1,1-dichloroethene	6.92	96	407731	105.68	ug/L	99
19) acetone	6.88	58	44047	106.53	ug/L	88
20) allyl chloride	7.40	41	854672	103.64	ug/L	99
21) acetonitrile	7.24	40	263993	1160.55	ug/L	98
23) iodomethane	7.16	142	725039	112.73	ug/L	100
24) iso-butyl alcohol	9.97	74	22827	1128.45	ug/L	93
25) carbon disulfide	7.31	76	1378798	111.03	ug/L	99
26) methylene chloride	7.55	84	480397	108.24	ug/L	100
27) methyl acetate	7.37	43	355387	100.41	ug/L	99
28) methyl tert butyl ether	7.96	73	1387717	110.31	ug/L	99
29) trans-1,2-dichloroethene	7.97	96	440847	108.64	ug/L	99
30) di-isopropyl ether	8.56	45	1413618	106.64	ug/L	98
31) ethyl tert-butyl ether	9.02	59	1394989	109.62	ug/L	99
32) 2-butanone	9.15	72	56712	106.00	ug/L	95
33) 1,1-dichloroethane	8.49	63	763822	106.56	ug/L	99
34) chloroprene	8.64	53	651705	110.43	ug/L	99
35) acrylonitrile	7.81	53	865097	557.12	ug/L	100
36) vinyl acetate	8.49	86	94438	102.42	ug/L	91
37) ethyl acetate	9.22	45	47290	82.87	ug/L	58
38) 2,2-dichloropropane	9.25	77	645269	104.92	ug/L	99
39) cis-1,2-dichloroethene	9.21	96	482044	110.70	ug/L	98

(#) = qualifier out of range (m) = manual integration
D188527.D MD7671.M Mon Oct 31 08:31:30 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188527.D Vial: 10
Acq On : 28 Oct 2011 1:19 pm Operator: EmilyT
Sample : IC7671-100 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 15:04 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 13:16:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
40)	propionitrile	9.18	54	666102	1129.85 ug/L		100
41)	bromochloromethane	9.50	128	230937	115.21 ug/L		97
42)	tetrahydrofuran	9.58	72	64199	107.82 ug/L		98
43)	chloroform	9.56	83	729384	111.86 ug/L		99
46)	freon 113	6.93	151	317506	110.53 ug/L		97
47)	methacrylonitrile	9.41	41	266342	112.12 ug/L		98
48)	t-butyl formate	9.64	59	416128	116.85 ug/L		97
49)	1,1,1-trichloroethane	9.88	97	657997	112.04 ug/L		99
50)	tert-amyl methyl ether	10.38	73	1322735	108.09 ug/L		100
52)	cyclohexane	10.00	84	640745	103.56 ug/L	#	100
53)	tert amyl alcohol	10.12	55	91939	481.01 ug/L		96
54)	2,2,4-trimethylpentane	10.40	57	1596956	103.53 ug/L		99
55)	epichlorohydrin	11.87	57	237111	498.84 ug/L		99
56)	n-butyl alcohol	10.72	56	676350	5494.63 ug/L		99
57)	carbon tetrachloride	10.10	117	564363	112.89 ug/L		100
58)	1,1-dichloropropene	10.05	75	578510	106.20 ug/L		99
59)	hexane	8.34	57	561656	101.03 ug/L		99
60)	benzene	10.30	78	1711094	107.24 ug/L		99
61)	heptane	10.56	57	318815	106.14 ug/L		100
62)	isopropyl acetate	10.22	43	816231	113.07 ug/L		99
63)	1,2-dichloroethane	10.25	62	594048	112.97 ug/L		99
64)	Ethyl Acrylate	11.00	55	565048	96.72 ug/L		99
65)	trichloroethene	11.02	95	443606	109.95 ug/L		99
66)	2-nitropropane	11.70	43	146355	122.44 ug/L		98
67)	2-chloroethyl vinyl ether	11.79	63	1408552	560.82 ug/L		99
68)	methyl methacrylate	11.27	100	132695	112.43 ug/L		95
69)	tert-amyl ethyl ether	11.24	87	657086	114.93 ug/L		98
70)	1,2-dichloropropane	11.25	63	458113	110.55 ug/L		98
71)	methylcyclohexane	11.31	83	732849	105.03 ug/L		98
72)	dibromomethane	11.38	93	278395	114.01 ug/L		98
73)	bromodichloromethane	11.52	83	588683	116.50 ug/L		98
74)	cis-1,3-dichloropropene	12.02	75	738855	113.92 ug/L		98
76)	4-methyl-2-pentanone	12.12	58	191028	109.23 ug/L		98
77)	toluene	12.44	92	1087506	110.63 ug/L		98
78)	3-methyl-1-butanol	12.11	70	272193	2327.35 ug/L		98
79)	trans-1,3-dichloropropene	12.59	75	695767	115.50 ug/L		97
80)	ethyl methacrylate	12.64	69	618707	110.79 ug/L		99
81)	1,1,2-trichloroethane	12.82	83	340236	113.32 ug/L		99
82)	2-hexanone	13.03	58	175671	103.11 ug/L		98
84)	tetrachloroethene	13.10	166	486257	115.16 ug/L		99
85)	1,3-dichloropropane	13.02	76	690161	112.37 ug/L		99
86)	butyl acetate	13.15	56	294862	97.49 ug/L		98
87)	3,3-dimethyl-1-butanol	13.21	57	483580	1130.82 ug/L		99
88)	dibromochloromethane	13.31	129	472386	100.06 ug/L		99
89)	1,2-dibromoethane	13.47	107	427415	98.36 ug/L		97
90)	chlorobenzene	14.02	112	1187329	111.02 ug/L		99
91)	1,1,1,2-tetrachloroethane	14.08	131	455040	117.96 ug/L		100
92)	ethylbenzene	14.11	91	2031877	109.30 ug/L		98
93)	m,p-xylene	14.23	106	1627768	219.79 ug/L		93

(#) = qualifier out of range (m) = manual integration
D188527.D MD7671.M Mon Oct 31 08:31:30 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188527.D Vial: 10
Acq On : 28 Oct 2011 1:19 pm Operator: EmilyT
Sample : IC7671-100 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 15:04 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 13:16:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

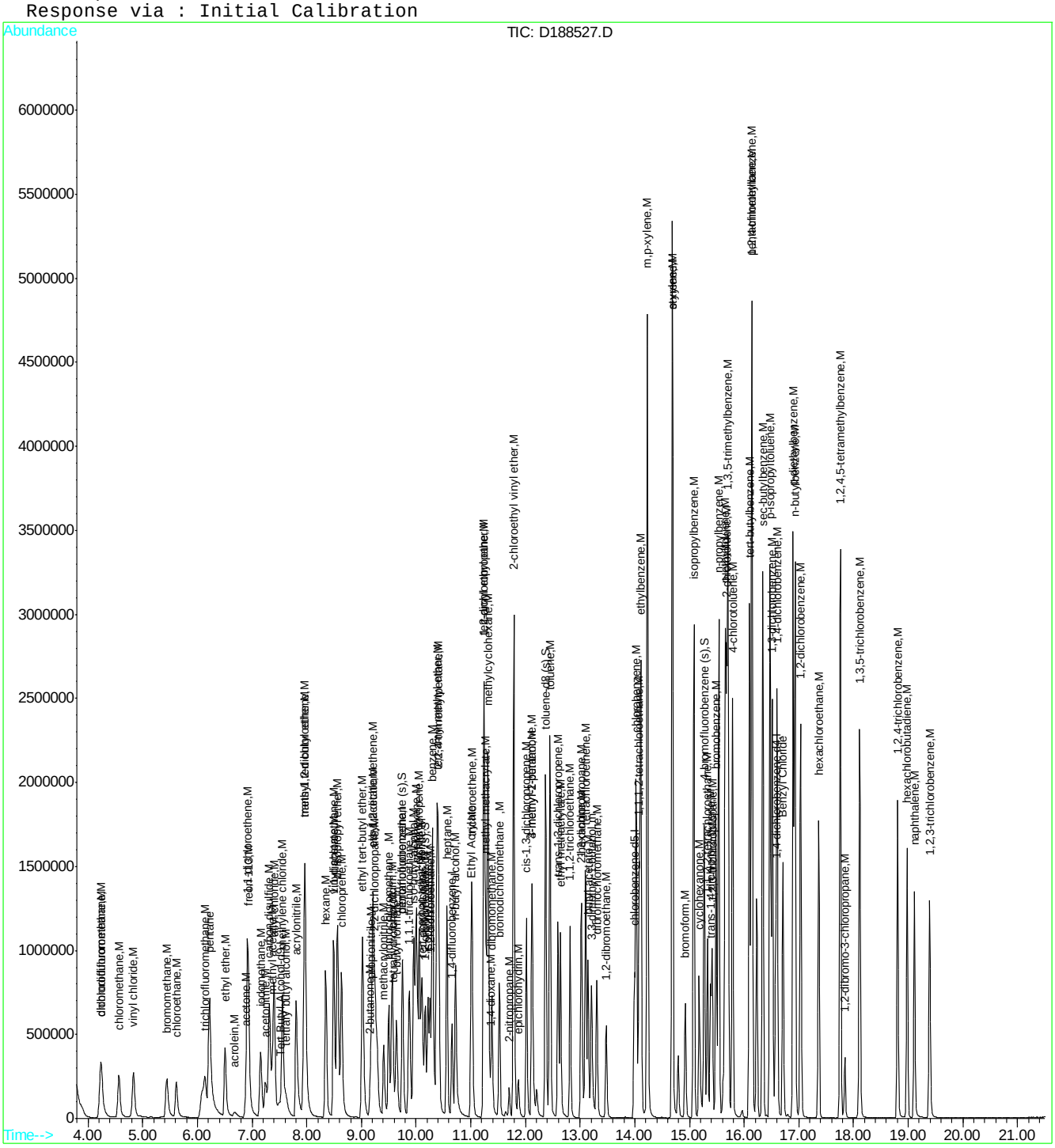
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	o-xylene	14.68	106	831194	114.08 ug/L	99
95)	styrene	14.68	104	1425635	112.62 ug/L	99
96)	bromoform	14.92	173	354160	101.90 ug/L	100
98)	isopropylbenzene	15.08	105	2124083	106.14 ug/L	98
100)	bromobenzene	15.48	156	569963	113.54 ug/L	97
101)	cyclohexanone	15.17	55	478870	1032.00 ug/L	99
102)	1,1,2,2-tetrachloroethane	15.33	83	577167	104.87 ug/L	98
103)	trans-1,4-dichloro-2-buten	15.38	53	172397	98.04 ug/L	98
104)	1,2,3-trichloropropane	15.42	110	166717	109.25 ug/L	98
105)	n-propylbenzene	15.54	91	2452251	104.28 ug/L	97
106)	p-ethyltoluene	15.65	105	2021901	112.20 ug/L	99
107)	2-chlorotoluene	15.68	126	527991	111.39 ug/L	98
108)	4-chlorotoluene	15.79	91	1600133	104.30 ug/L	98
109)	1,3,5-trimethylbenzene	15.70	105	1885599	105.19 ug/L	99
110)	tert-butylbenzene	16.10	119	1644162	105.35 ug/L	98
111)	pentachloroethane	16.15	167	372040	115.15 ug/L	98
112)	1,2,4-trimethylbenzene	16.14	105	1932368	109.02 ug/L	98
113)	sec-butylbenzene	16.34	105	2374500	104.60 ug/L	97
114)	1,3-dichlorobenzene	16.51	146	1093902	114.01 ug/L	99
115)	p-isopropyltoluene	16.47	119	1990752	108.15 ug/L	97
116)	1,4-dichlorobenzene	16.60	146	1135682	105.58 ug/L	98
117)	Benzyl Chloride	16.71	91	1185805	108.99 ug/L	99
118)	p-diethylbenzene	16.90	119	1259226	114.30 ug/L	99
119)	1,2-dichlorobenzene	17.03	146	1073408	110.07 ug/L	98
120)	n-butylbenzene	16.93	92	1135817	110.65 ug/L	96
121)	1,2,4,5-tetramethylbenzene	17.76	119	1878766	107.35 ug/L	99
122)	1,2-dibromo-3-chloropropan	17.84	75	98152	108.07 ug/L	100
123)	1,3,5-trichlorobenzene	18.11	180	845053	109.24 ug/L	99
124)	1,2,4-trichlorobenzene	18.80	180	701315	98.02 ug/L	100
125)	hexachlorobutadiene	18.98	225	405834	109.95 ug/L	98
126)	naphthalene	19.11	128	1294985	95.45 ug/L	99
127)	1,2,3-trichlorobenzene	19.39	180	499427	97.97 ug/L	98
128)	hexachloroethane	17.36	119	378647	119.34 ug/L	99

(#) = qualifier out of range (m) = manual integration
D188527.D MD7671.M Mon Oct 31 08:31:30 2011 RPT1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188527.D Vial: 10
Acq On : 28 Oct 2011 1:19 pm Operator: EmilyT
Sample : IC7671-100 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 28 15:04 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:31:01 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188528.D Vial: 11
Acq On : 28 Oct 2011 1:48 pm Operator: EmilyT
Sample : IC7671-200 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:32 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 14:22:53 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.51	65	193490	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	331260	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	522424	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	492513	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	284850	50.00 ug/L	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.75	113	736641	225.67 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery	= 451.34%#	
45) 1,2-dichloroethane-d4 (s)	10.16	65	889661	229.40 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery	= 458.80%#	
75) toluene-d8 (s)	12.37	98	2746825	219.45 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery	= 438.90%#	
99) 4-bromofluorobenzene (s)	15.27	95	1226228	205.47 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery	= 410.94%#	

Target Compounds

					Qvalue
2) 1,4-dioxane	11.36	88	248308	6839.31 ug/L #	88
3) tertiary butyl alcohol	7.62	59	523479	1000.71 ug/L	97
6) chlorodifluoromethane	4.23	51	878887	204.48 ug/L	99
7) dichlorodifluoromethane	4.22	85	1005930	205.64 ug/L	99
8) chloromethane	4.57	50	1108066	214.39 ug/L	99
9) vinyl chloride	4.84	62	1029983	204.77 ug/L	98
10) bromomethane	5.43	94	324782	99.88 ug/L	98
11) chloroethane	5.60	64	502035	164.71 ug/L	98
13) trichlorofluoromethane	6.13	101	1239349	212.54 ug/L	99
14) pentane	6.21	43	1725099	212.21 ug/L	99
15) ethyl ether	6.51	74	534748	217.58 ug/L	97
16) acrolein	6.68	56	21050	19.71 ug/L	88
18) 1,1-dichloroethene	6.91	96	792046	202.54 ug/L	99
19) acetone	6.88	58	86866	206.25 ug/L	91
20) allyl chloride	7.40	41	1641240	196.75 ug/L	99
21) acetonitrile	7.25	40	515772	2204.53 ug/L	99
23) iodomethane	7.15	142	1399122	212.50 ug/L	99
24) iso-butyl alcohol	9.98	74	46101	2209.85 ug/L	97
25) carbon disulfide	7.31	76	2610549	205.84 ug/L	98
26) methylene chloride	7.55	84	908811	201.29 ug/L	100
27) methyl acetate	7.37	43	698155	196.03 ug/L	99
28) methyl tert butyl ether	7.96	73	2655235	206.87 ug/L	98
29) trans-1,2-dichloroethene	7.97	96	852558	206.41 ug/L	99
30) di-isopropyl ether	8.56	45	2690228	199.95 ug/L	99
31) ethyl tert-butyl ether	9.02	59	2650599	204.35 ug/L	98
32) 2-butanone	9.15	72	113100	207.14 ug/L	97
33) 1,1-dichloroethane	8.49	63	1477791	203.14 ug/L	99
34) chloroprene	8.63	53	1288719	214.00 ug/L	99
35) acrylonitrile	7.80	53	1671763	1053.57 ug/L	99
36) vinyl acetate	8.48	86	195839	205.18 ug/L	85
37) ethyl acetate	9.21	45	103798	212.26 ug/L	45
38) 2,2-dichloropropane	9.25	77	1245370	199.99 ug/L	99
39) cis-1,2-dichloroethene	9.21	96	923727	207.80 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188528.D Vial: 11
Acq On : 28 Oct 2011 1:48 pm Operator: EmilyT
Sample : IC7671-200 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:32 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 14:22:53 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	propionitrile	9.18	54	1307550	2165.66 ug/L	99
41)	bromochloromethane	9.50	128	449424	218.24 ug/L	96
42)	tetrahydrofuran	9.58	72	126798	208.53 ug/L	99
43)	chloroform	9.56	83	1407479	211.11 ug/L	98
46)	freon 113	6.93	151	651249	222.14 ug/L	96
47)	methacrylonitrile	9.41	41	525904	216.44 ug/L	98
48)	t-butyl formate	9.64	59	807598	220.24 ug/L	96
49)	1,1,1-trichloroethane	9.88	97	1279245	212.98 ug/L	99
50)	tert-amyl methyl ether	10.38	73	2525820	202.93 ug/L	98
52)	cyclohexane	10.00	84	1285808	208.34 ug/L #	100
53)	tert amyl alcohol	10.12	55	180649	957.53 ug/L	99
54)	2,2,4-trimethylpentane	10.40	57	3183345	206.91 ug/L	98
55)	epichlorohydrin	11.87	57	463487	982.87 ug/L	98
56)	n-butyl alcohol	10.72	56	1363195	11003.57 ug/L	100
57)	carbon tetrachloride	10.10	117	1113844	220.44 ug/L	98
58)	1,1-dichloropropene	10.05	75	1143781	209.72 ug/L	99
59)	hexane	8.34	57	1145308	207.28 ug/L	99
60)	benzene	10.30	78	3218903	201.20 ug/L	96
61)	heptane	10.56	57	659674	219.36 ug/L	99
62)	isopropyl acetate	10.22	43	1616837	220.88 ug/L	99
63)	1,2-dichloroethane	10.25	62	1157744	217.82 ug/L	99
64)	Ethyl Acrylate	11.00	55	1115497	196.55 ug/L	99
65)	trichloroethene	11.02	95	869647	214.15 ug/L	98
66)	2-nitropropane	11.70	43	294496	240.55 ug/L	99
67)	2-chloroethyl vinyl ether	11.78	63	2691948	1061.54 ug/L	97
68)	methyl methacrylate	11.27	100	267068	222.47 ug/L	96
69)	tert-amyl ethyl ether	11.24	87	1255488	216.64 ug/L	99
70)	1,2-dichloropropane	11.25	63	897997	215.11 ug/L	99
71)	methylcyclohexane	11.31	83	1477158	211.79 ug/L	99
72)	dibromomethane	11.38	93	547095	221.34 ug/L	98
73)	bromodichloromethane	11.52	83	1156001	225.22 ug/L	99
74)	cis-1,3-dichloropropene	12.02	75	1430352	217.89 ug/L	96
76)	4-methyl-2-pentanone	12.12	58	384494	218.17 ug/L	99
77)	toluene	12.44	92	2094327	211.47 ug/L	92
78)	3-methyl-1-butanol	12.11	70	567212	4775.25 ug/L	98
79)	trans-1,3-dichloropropene	12.59	75	1352877	221.40 ug/L	95
80)	ethyl methacrylate	12.64	69	1223704	216.90 ug/L	99
81)	1,1,2-trichloroethane	12.82	83	662352	218.14 ug/L	99
82)	2-hexanone	13.03	58	359654	211.61 ug/L	98
84)	tetrachloroethene	13.10	166	955319	222.08 ug/L	99
85)	1,3-dichloropropane	13.02	76	1342600	215.40 ug/L	99
86)	butyl acetate	13.14	56	610052	204.45 ug/L	96
87)	3,3-dimethyl-1-butanol	13.21	57	1060336	2440.89 ug/L	99
88)	dibromochloromethane	13.31	129	930004	195.99 ug/L	99
89)	1,2-dibromoethane	13.47	107	834902	194.66 ug/L	100
90)	chlorobenzene	14.02	112	2288443	211.25 ug/L	97
91)	1,1,1,2-tetrachloroethane	14.08	131	896344	227.19 ug/L	98
92)	ethylbenzene	14.11	91	3749632	199.62 ug/L	93
93)	m,p-xylene	14.23	106	3011534	402.10 ug/L	78

(#) = qualifier out of range (m) = manual integration
D188528.D MD7671.M Mon Oct 31 09:03:45 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188528.D Vial: 11
Acq On : 28 Oct 2011 1:48 pm Operator: EmilyT
Sample : IC7671-200 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:32 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Oct 28 14:22:53 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

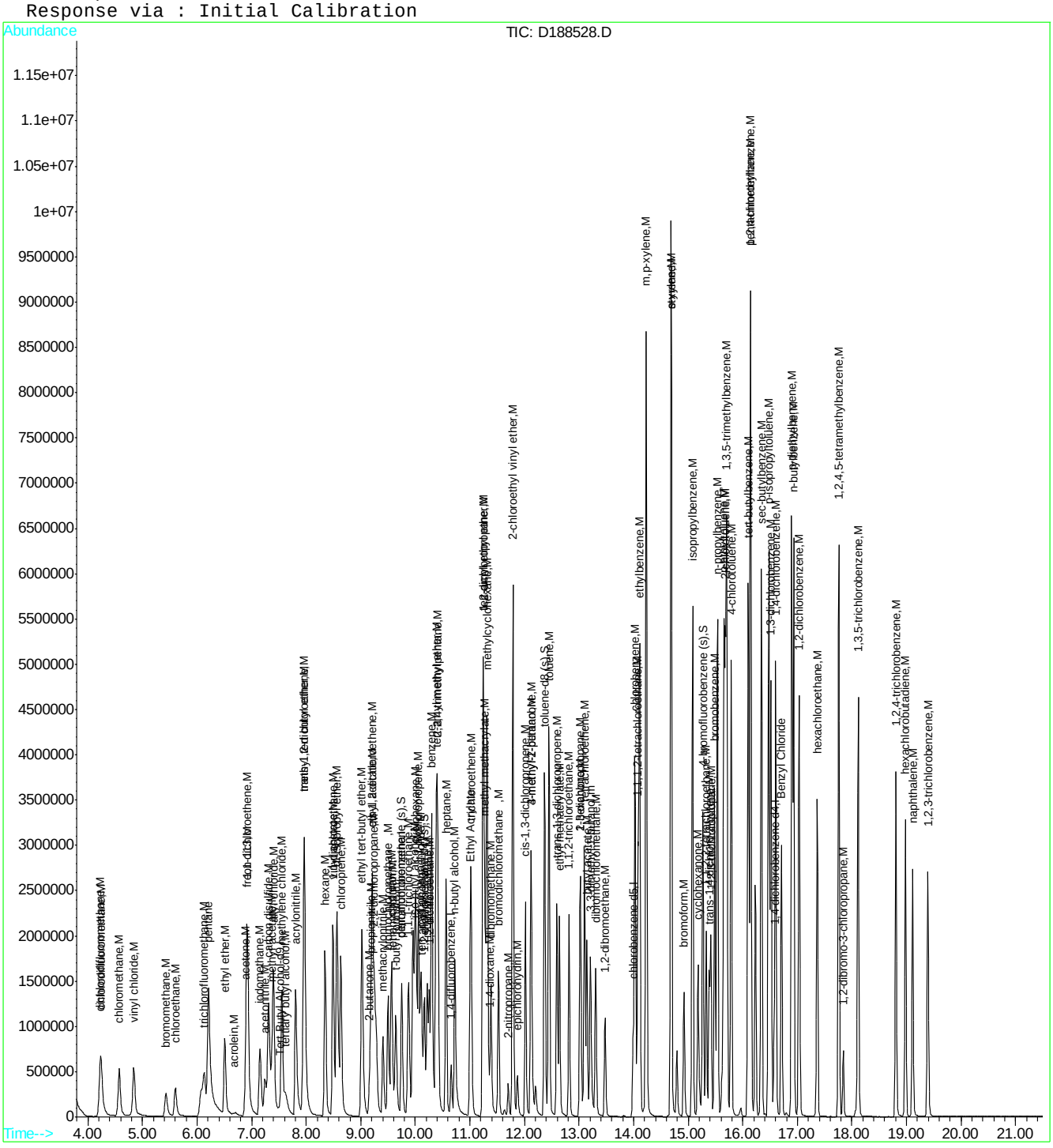
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	o-xylene	14.69	106	1570777	211.93 ug/L	95
95)	styrene	14.68	104	2648098	205.46 ug/L	94
96)	bromoform	14.92	173	706485	198.59 ug/L	99
98)	isopropylbenzene	15.08	105	3873459	190.15 ug/L	91
100)	bromobenzene	15.48	156	1112916	215.55 ug/L	95
101)	cyclohexanone	15.18	55	912509	1936.55 ug/L	99
102)	1,1,2,2-tetrachloroethane	15.33	83	1122570	200.75 ug/L	97
103)	trans-1,4-dichloro-2-buten	15.38	53	342168	194.97 ug/L	97
104)	1,2,3-trichloropropane	15.41	110	332517	213.13 ug/L	98
105)	n-propylbenzene	15.53	91	4374083	183.22 ug/L	88
106)	p-ethyltoluene	15.65	105	3694783	199.71 ug/L	95
107)	2-chlorotoluene	15.68	126	1041525	214.28 ug/L	91
108)	4-chlorotoluene	15.79	91	3058919	196.40 ug/L	94
109)	1,3,5-trimethylbenzene	15.71	105	3506433	192.43 ug/L	94
110)	tert-butylbenzene	16.10	119	3080814	194.15 ug/L	94
111)	pentachloroethane	16.15	167	720263	215.50 ug/L	99
112)	1,2,4-trimethylbenzene	16.14	105	3546612	195.77 ug/L	94
113)	sec-butylbenzene	16.34	105	4263189	184.90 ug/L	89
114)	1,3-dichlorobenzene	16.51	146	2093735	212.03 ug/L	96
115)	p-isopropyltoluene	16.48	119	3621314	192.73 ug/L	90
116)	1,4-dichlorobenzene	16.60	146	2169328	198.29 ug/L	97
117)	Benzyl Chloride	16.71	91	2285333	204.49 ug/L	98
118)	p-diethylbenzene	16.89	119	2350206	207.18 ug/L	97
119)	1,2-dichlorobenzene	17.03	146	2047679	205.14 ug/L	96
120)	n-butylbenzene	16.93	92	2192214	207.96 ug/L	88
121)	1,2,4,5-tetramethylbenzene	17.76	119	3346910	186.79 ug/L	94
122)	1,2-dibromo-3-chloropropan	17.84	75	194124	208.47 ug/L	96
123)	1,3,5-trichlorobenzene	18.11	180	1625868	204.52 ug/L	98
124)	1,2,4-trichlorobenzene	18.80	180	1363519	190.58 ug/L	100
125)	hexachlorobutadiene	18.98	225	799079	210.37 ug/L #	68
126)	naphthalene	19.11	128	2491190	188.14 ug/L	98
127)	1,2,3-trichlorobenzene	19.39	180	994820	195.10 ug/L	99
128)	hexachloroethane	17.36	119	761517	231.47 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188528.D Vial: 11
Acq On : 28 Oct 2011 1:48 pm Operator: EmilyT
Sample : IC7671-200 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:32 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188526.D Vial: 9
Acq On : 28 Oct 2011 12:50 pm Operator: EmilyT
Sample : ICV7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:48 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.50	65	195407	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	324497	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	516031	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	484745	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	277691	50.00 ug/L	0.00

System Monitoring Compounds					
44) dibromofluoromethane (s)	9.75	113	182245	51.47 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 102.94%		
45) 1,2-dichloroethane-d4 (s)	10.17	65	219776	51.65 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 103.30%		
75) toluene-d8 (s)	12.37	98	709056	51.47 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 102.94%		
99) 4-bromofluorobenzene (s)	15.27	95	293607	46.52 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 93.04%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.36	88	50269	1129.53 ug/L #	99
3) tertiary butyl alcohol	7.61	59	135996	267.79 ug/L	98
6) chlorodifluoromethane	4.23	51	171969	40.70 ug/L	98
7) dichlorodifluoromethane	4.23	85	265752	55.26 ug/L	98
8) chloromethane	4.56	50	266195	51.95 ug/L	99
9) vinyl chloride	4.82	62	265281	53.30 ug/L	98
10) bromomethane	5.44	94	165584	52.26 ug/L	99
11) chloroethane	5.62	64	163072	56.30 ug/L	98
13) trichlorofluoromethane	6.13	101	313614	54.48 ug/L	97
14) pentane	6.23	43	366797	45.82 ug/L	99
15) ethyl ether	6.51	74	130836	53.55 ug/L	98
16) acrolein	6.66	56	526530	579.67 ug/L	99
18) 1,1-dichloroethene	6.92	96	194914	50.53 ug/L	99
19) acetone	6.88	58	23355	56.32 ug/L	99
20) allyl chloride	7.40	41	425479	51.92 ug/L	98
21) acetonitrile	7.25	40	132526	544.89 ug/L	97
23) iodomethane	7.16	142	344963	53.46 ug/L	99
24) iso-butyl alcohol	9.97	74	58119	2795.11 ug/L	95
25) carbon disulfide	7.32	76	655444	52.23 ug/L	99
26) methylene chloride	7.56	84	228514	51.40 ug/L	100
27) methyl acetate	7.38	43	164854	47.87 ug/L	100
28) methyl tert butyl ether	7.96	73	1354275	106.99 ug/L	99
29) trans-1,2-dichloroethene	7.97	96	211156	51.79 ug/L	98
30) di-isopropyl ether	8.56	45	685501	52.15 ug/L	98
31) ethyl tert-butyl ether	9.02	59	722143	57.00 ug/L	99
32) 2-butanone	9.16	72	29342	56.97 ug/L	97
33) 1,1-dichloroethane	8.49	63	377160	52.67 ug/L	99
34) chloroprene	8.64	53	320121	54.10 ug/L	100
35) acrylonitrile	7.81	53	434845	265.70 ug/L	99
36) vinyl acetate	8.50	86	50506	54.66 ug/L	90
37) ethyl acetate	9.22	45	26935	52.91 ug/L	54
38) 2,2-dichloropropane	9.25	77	315126	51.60 ug/L	99
39) cis-1,2-dichloroethene	9.21	96	228573	52.04 ug/L	100

(#) = qualifier out of range (m) = manual integration
D188526.D MD7671.M Mon Oct 31 08:55:51 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188526.D Vial: 9
Acq On : 28 Oct 2011 12:50 pm Operator: EmilyT
Sample : ICV7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:48 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) propionitrile	9.18	54	335460	529.64 ug/L	99
41) bromochloromethane	9.50	128	109438	52.37 ug/L	97
42) tetrahydrofuran	9.58	72	32143	53.58 ug/L	98
43) chloroform	9.56	83	353565	53.72 ug/L	100
46) freon 113	6.93	151	159021	52.49 ug/L	96
47) methacrylonitrile	9.41	41	129421	53.96 ug/L	96
48) t-butyl formate	9.64	59	208356	57.28 ug/L	98
49) 1,1,1-trichloroethane	9.88	97	316803	53.60 ug/L	98
50) tert-amyl methyl ether	10.38	73	749613	61.17 ug/L	100
52) cyclohexane	10.00	84	326222	53.01 ug/L #	100
53) tert amyl alcohol	10.12	55	92382	503.91 ug/L	98
54) 2,2,4-trimethylpentane	10.40	57	895524	57.60 ug/L	99
55) epichlorohydrin	11.87	57	123570	266.92 ug/L	99
56) n-butyl alcohol	10.72	56	344863	2769.62 ug/L	100
57) carbon tetrachloride	10.10	117	271620	53.72 ug/L	99
58) 1,1-dichloropropene	10.06	75	281817	52.09 ug/L	100
59) hexane	8.35	57	288368	52.29 ug/L	99
60) benzene	10.30	78	834977	52.89 ug/L	100
61) heptane	10.56	57	170420	56.69 ug/L	99
62) isopropyl acetate	10.22	43	410568	54.46 ug/L	99
63) 1,2-dichloroethane	10.26	62	285228	53.76 ug/L	99
64) Ethyl Acrylate	11.01	55	268383	52.67 ug/L	99
65) trichloroethene	11.02	95	212754	52.57 ug/L	100
66) 2-nitropropane	11.70	43	70146	53.86 ug/L	97
67) 2-chloroethyl vinyl ether	11.79	63	756603	293.84 ug/L	100
68) methyl methacrylate	11.28	100	63091	52.23 ug/L	98
69) tert-amyl ethyl ether	11.24	87	648685	113.64 ug/L	99
70) 1,2-dichloropropane	11.25	63	223772	53.86 ug/L	100
71) methylcyclohexane	11.31	83	392033	56.33 ug/L	100
72) dibromomethane	11.39	93	136695	55.17 ug/L	100
73) bromodichloromethane	11.52	83	282767	55.01 ug/L	99
74) cis-1,3-dichloropropene	12.02	75	350088	53.55 ug/L	99
76) 4-methyl-2-pentanone	12.13	58	95949	54.41 ug/L	98
77) toluene	12.45	92	526439	53.31 ug/L	99
78) 3-methyl-1-butanol	12.12	70	142574	1186.43 ug/L	98
79) trans-1,3-dichloropropene	12.60	75	332124	52.97 ug/L	97
80) ethyl methacrylate	12.64	69	313192	55.53 ug/L	99
81) 1,1,2-trichloroethane	12.82	83	161990	52.14 ug/L	99
82) 2-hexanone	13.04	58	87478	51.68 ug/L	97
84) tetrachloroethene	13.10	166	232089	54.01 ug/L	98
85) 1,3-dichloropropane	13.02	76	334555	53.55 ug/L	99
86) butyl acetate	13.15	56	144220	50.21 ug/L	97
87) 3,3-dimethyl-1-butanol	13.21	57	248757	573.63 ug/L	99
88) dibromochloromethane	13.31	129	221259	52.46 ug/L	97
89) 1,2-dibromoethane	13.48	107	202656	54.79 ug/L	98
90) chlorobenzene	14.02	112	573071	52.64 ug/L	99
91) 1,1,1,2-tetrachloroethane	14.08	131	215586	54.30 ug/L	99
92) ethylbenzene	14.11	91	994193	53.26 ug/L	100
93) m,p-xylene	14.23	106	788022	106.18 ug/L	99

(#) = qualifier out of range (m) = manual integration

ACCUTEST LABORATORIES JA93968

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D188526.D Vial: 9
Acq On : 28 Oct 2011 12:50 pm Operator: EmilyT
Sample : ICV7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:48 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

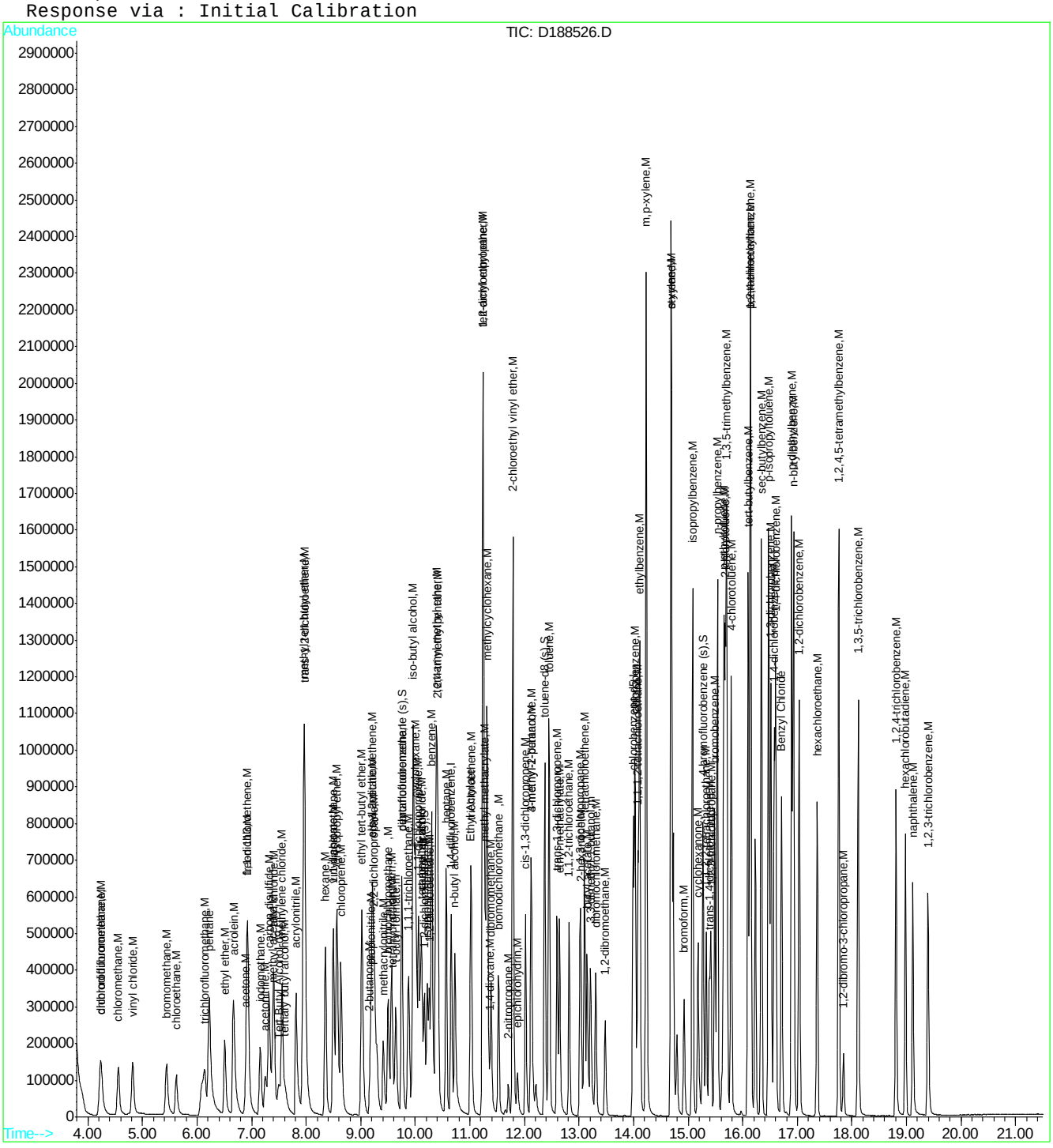
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	o-xylene	14.69	106	400741	54.37 ug/L	98
95)	styrene	14.68	104	684252	53.73 ug/L	99
96)	bromoform	14.92	173	165674	49.00 ug/L	99
98)	isopropylbenzene	15.08	105	1043506	52.87 ug/L	100
100)	bromobenzene	15.49	156	273560	53.83 ug/L	99
101)	cyclohexanone	15.18	55	258589	566.43 ug/L	98
102)	1,1,2,2-tetrachloroethane	15.33	83	278667	51.10 ug/L	99
103)	trans-1,4-dichloro-2-buten	15.38	53	86676	55.37 ug/L	99
104)	1,2,3-trichloropropane	15.41	110	81422	53.10 ug/L	99
105)	n-propylbenzene	15.54	91	1227333	53.30 ug/L	100
106)	p-ethyltoluene	15.65	105	967949	53.68 ug/L	99
107)	2-chlorotoluene	15.68	126	250142	52.32 ug/L	97
108)	4-chlorotoluene	15.79	91	786131	51.89 ug/L	99
109)	1,3,5-trimethylbenzene	15.70	105	929890	52.60 ug/L	99
110)	tert-butylbenzene	16.09	119	795211	51.59 ug/L	99
111)	pentachloroethane	16.15	167	181598	55.12 ug/L	98
112)	1,2,4-trimethylbenzene	16.14	105	955160	54.23 ug/L	100
113)	sec-butylbenzene	16.34	105	1186980	53.31 ug/L	100
114)	1,3-dichlorobenzene	16.51	146	528858	54.53 ug/L	99
115)	p-isopropyltoluene	16.48	119	1018049	55.83 ug/L	99
116)	1,4-dichlorobenzene	16.60	146	554746	52.07 ug/L	99
117)	Benzyl Chloride	16.71	91	712231	65.13 ug/L	100
118)	p-diethylbenzene	16.90	119	605373	54.50 ug/L	100
119)	1,2-dichlorobenzene	17.03	146	525663	53.85 ug/L	100
120)	n-butylbenzene	16.93	92	554482	53.65 ug/L	98
121)	1,2,4,5-tetramethylbenzene	17.76	119	928474	53.74 ug/L	100
122)	1,2-dibromo-3-chloropropan	17.84	75	48493	53.05 ug/L	95
123)	1,3,5-trichlorobenzene	18.11	180	417671	53.69 ug/L	98
124)	1,2,4-trichlorobenzene	18.81	180	349830	52.38 ug/L	99
125)	hexachlorobutadiene	18.98	225	192967	51.67 ug/L	98
126)	naphthalene	19.11	128	639757	51.71 ug/L	100
127)	1,2,3-trichlorobenzene	19.39	180	250654	52.23 ug/L	98
128)	hexachloroethane	17.36	119	178756	54.66 ug/L	98

(#) = qualifier out of range (m) = manual integration
D188526.D MD7671.M Mon Oct 31 08:55:52 2011 RPT1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D188526.D Vial: 9
Acq On : 28 Oct 2011 12:50 pm Operator: EmilyT
Sample : ICV7671-50 Inst : MSD
Misc : MS20017,VD7671,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:48 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Mon Oct 31 08:44:12 2011
Response via : Initial Calibration



ACCUTEST LABORATORIES JA93968

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190174A.D Vial: 52
Acq On : 10 Dec 2011 11:33 am Operator: EmilyT
Sample : cc7671-20 Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:14 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.51	65	188505	500.00 ug/L	0.00
4) pentafluorobenzene	9.75	168	311742	50.00 ug/L	0.00
51) 1,4-difluorobenzene	10.66	114	502217	50.00 ug/L	0.00
83) chlorobenzene-d5	13.99	117	511207	50.00 ug/L	0.00
97) 1,4-dichlorobenzene-d4	16.58	152	289871	50.00 ug/L	0.00

System Monitoring Compounds					
44) dibromofluoromethane (s)	9.75	113	157476	46.29 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 92.58%		
45) 1,2-dichloroethane-d4 (s)	10.17	65	182375	44.61 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 89.22%		
75) toluene-d8 (s)	12.37	98	652142	48.64 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 97.28%		
99) 4-bromofluorobenzene (s)	15.27	95	294827	44.75 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 89.50%		

Target Compounds					Qvalue
2) 1,4-dioxane	11.37	88	22894	602.95 ug/L #	97
3) tertiary butyl alcohol	7.63	59	44708	91.26 ug/L	94
6) chlorodifluoromethane	4.25	51	81280	20.02 ug/L	98
7) dichlorodifluoromethane	4.25	85	91643	19.84 ug/L	99
8) chloromethane	4.56	50	108731	22.09 ug/L	99
9) vinyl chloride	4.82	62	106161	22.20 ug/L	97
10) bromomethane	5.45	94	63055	20.72 ug/L	97
11) chloroethane	5.63	64	60063	21.58 ug/L	99
13) trichlorofluoromethane	6.14	101	108712	19.66 ug/L	97
14) pentane	6.24	43	160649	20.89 ug/L	99
15) ethyl ether	6.52	74	45450	19.36 ug/L	97
16) acrolein	6.68	56	158262	181.36 ug/L	99
18) 1,1-dichloroethene	6.93	96	72514	19.57 ug/L	95
19) acetone	6.91	58	7021	17.62 ug/L	97
20) allyl chloride	7.41	41	152533	19.38 ug/L	95
21) acetonitrile	7.26	40	53996	231.09 ug/L	97
23) iodomethane	7.17	142	125387	20.23 ug/L	99
24) iso-butyl alcohol	9.98	74	3799	190.18 ug/L	89
25) carbon disulfide	7.33	76	250603	20.79 ug/L	99
26) methylene chloride	7.56	84	82350	19.28 ug/L	97
27) methyl acetate	7.39	43	59292	17.92 ug/L	97
28) methyl tert butyl ether	7.97	73	227374	18.70 ug/L	100
29) trans-1,2-dichloroethene	7.98	96	76224	19.46 ug/L	98
30) di-isopropyl ether	8.56	45	253243	20.06 ug/L	94
31) ethyl tert-butyl ether	9.02	59	236956	19.47 ug/L	99
32) 2-butanone	9.16	72	8466	17.11 ug/L	90
33) 1,1-dichloroethane	8.50	63	132706	19.29 ug/L	99
34) chloroprene	8.64	53	118334	20.82 ug/L	99
35) acrylonitrile	7.82	53	147647	93.91 ug/L	100
36) vinyl acetate	8.51	86	14997	18.55 ug/L	95
37) ethyl acetate	9.23	45	8490	17.36 ug/L	47
38) 2,2-dichloropropane	9.25	77	114165	19.46 ug/L	100
39) cis-1,2-dichloroethene	9.21	96	81155	19.23 ug/L	96

(#) = qualifier out of range (m) = manual integration
D190174A.D MD7671.M Mon Dec 12 16:15:36 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190174A.D Vial: 52
Acq On : 10 Dec 2011 11:33 am Operator: EmilyT
Sample : cc7671-20 Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:14 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
40)	propionitrile	9.19	54	115809	190.33 ug/L		100
41)	bromochloromethane	9.50	128	37763	18.81 ug/L		96
42)	tetrahydrofuran	9.59	72	9665	16.77 ug/L	#	79
43)	chloroform	9.56	83	121824	19.27 ug/L		99
46)	freon 113	6.94	151	59755	20.53 ug/L		98
47)	methacrylonitrile	9.42	41	40860	17.73 ug/L		97
48)	t-butyl formate	9.64	59	63798	18.26 ug/L		93
49)	1,1,1-trichloroethane	9.88	97	110952	19.54 ug/L		99
50)	tert-amyl methyl ether	10.38	73	219578	18.65 ug/L		98
52)	cyclohexane	10.01	84	120814	20.17 ug/L	#	100
53)	tert amyl alcohol	10.13	55	16256	91.11 ug/L		78
54)	2,2,4-trimethylpentane	10.40	57	318901	21.08 ug/L		98
55)	epichlorohydrin	11.88	57	44179	98.05 ug/L		98
56)	n-butyl alcohol	10.73	56	118977	981.79 ug/L		97
57)	carbon tetrachloride	10.11	117	95211	19.35 ug/L		98
58)	1,1-dichloropropene	10.06	75	101281	19.24 ug/L		97
59)	hexane	8.35	57	107595	20.05 ug/L		98
60)	benzene	10.30	78	299475	19.49 ug/L		99
61)	heptane	10.56	57	61818	21.13 ug/L		96
62)	isopropyl acetate	10.22	43	130094	17.73 ug/L		99
63)	1,2-dichloroethane	10.26	62	95122	18.42 ug/L		100
64)	Ethyl Acrylate	11.02	55	78943	15.92 ug/L		98
65)	trichloroethene	11.02	95	74160	18.83 ug/L		99
66)	2-nitropropane	11.71	43	20150	15.90 ug/L		92
67)	2-chloroethyl vinyl ether	11.78	63	258792	103.27 ug/L		99
68)	methyl methacrylate	11.28	100	20023	17.03 ug/L		97
69)	tert-amyl ethyl ether	11.24	87	100161	18.03 ug/L		98
70)	1,2-dichloropropane	11.25	63	78454	19.40 ug/L		98
71)	methylcyclohexane	11.31	83	139319	20.57 ug/L		100
72)	dibromomethane	11.39	93	44613	18.50 ug/L		98
73)	bromodichloromethane	11.52	83	94612	18.91 ug/L		98
74)	cis-1,3-dichloropropene	12.02	75	123845	19.47 ug/L		99
76)	4-methyl-2-pentanone	12.13	58	32278	18.81 ug/L		99
77)	toluene	12.45	92	190225	19.79 ug/L		99
78)	3-methyl-1-butanol	12.12	70	48046	410.81 ug/L		98
79)	trans-1,3-dichloropropene	12.60	75	113528	18.60 ug/L		99
80)	ethyl methacrylate	12.65	69	97854	17.83 ug/L		99
81)	1,1,2-trichloroethane	12.82	83	57338	18.96 ug/L		98
82)	2-hexanone	13.05	58	30225	18.35 ug/L		100
84)	tetrachloroethene	13.10	166	84359	18.62 ug/L		98
85)	1,3-dichloropropane	13.02	76	116759	17.72 ug/L		98
86)	butyl acetate	13.16	56	46867	17.27 ug/L		98
87)	3,3-dimethyl-1-butanol	13.21	57	86594	189.35 ug/L		96
88)	dibromochloromethane	13.31	129	75438	16.96 ug/L		99
89)	1,2-dibromoethane	13.48	107	70992	18.20 ug/L		99
90)	chlorobenzene	14.02	112	210226	18.31 ug/L		99
91)	1,1,1,2-tetrachloroethane	14.08	131	73076	17.45 ug/L		97
92)	ethylbenzene	14.11	91	368014	18.69 ug/L		98
93)	m,p-xylene	14.23	106	292330	37.35 ug/L		99

(#) = qualifier out of range (m) = manual integration
D190174A.D MD7671.M Mon Dec 12 16:15:36 2011 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D190174A.D Vial: 52
Acq On : 10 Dec 2011 11:33 am Operator: EmilyT
Sample : cc7671-20 Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:14 2011 Quant Results File: MD7671.RES

Quant Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration
DataAcq Meth : MD7671

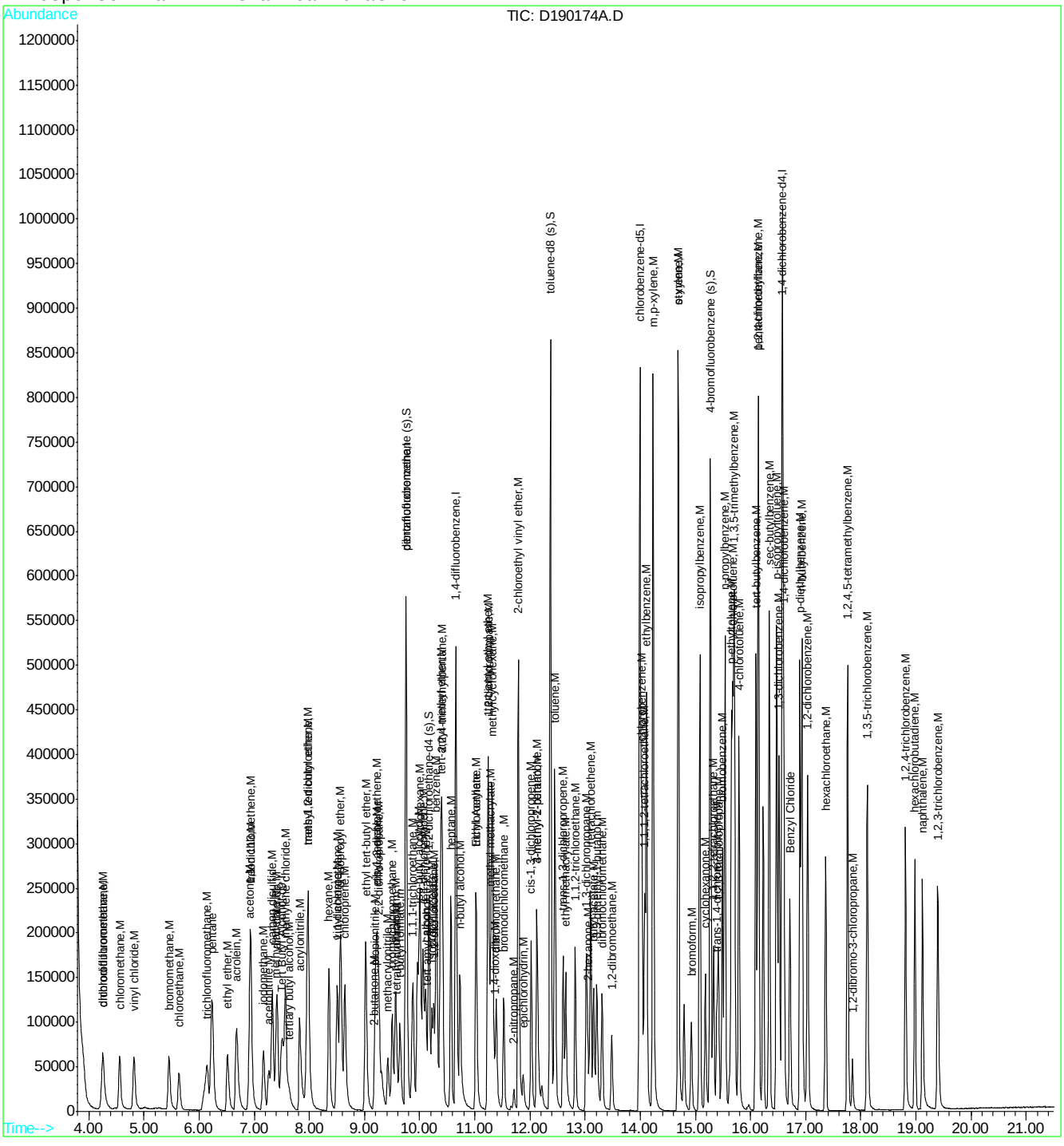
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
94)	o-xylene	14.69	106	142678	18.35 ug/L		99
95)	styrene	14.69	104	238992	17.80 ug/L		98
96)	bromoform	14.92	173	55872	16.93 ug/L		98
98)	isopropylbenzene	15.08	105	377457	18.32 ug/L		100
100)	bromobenzene	15.49	156	99468	18.75 ug/L		97
101)	cyclohexanone	15.18	55	83828	175.91 ug/L		99
102)	1,1,2,2-tetrachloroethane	15.33	83	99884	17.54 ug/L		99
103)	trans-1,4-dichloro-2-buten	15.39	53	28464	17.42 ug/L		92
104)	1,2,3-trichloropropane	15.41	110	28091	17.55 ug/L		99
105)	n-propylbenzene	15.53	91	454050	18.89 ug/L		99
106)	p-ethyltoluene	15.65	105	329784	17.52 ug/L		99
107)	2-chlorotoluene	15.68	126	90220	18.08 ug/L		97
108)	4-chlorotoluene	15.79	91	286594	18.12 ug/L		98
109)	1,3,5-trimethylbenzene	15.71	105	326894	17.71 ug/L		100
110)	tert-butylbenzene	16.09	119	276432	17.18 ug/L		96
111)	pentachloroethane	16.15	167	61494	17.88 ug/L		99
112)	1,2,4-trimethylbenzene	16.14	105	334607	18.20 ug/L		99
113)	sec-butylbenzene	16.34	105	428735	18.45 ug/L		99
114)	1,3-dichlorobenzene	16.52	146	187738	18.54 ug/L		98
115)	p-isopropyltoluene	16.48	119	350422	18.41 ug/L		98
116)	1,4-dichlorobenzene	16.60	146	201960	18.16 ug/L		99
117)	Benzyl Chloride	16.71	91	205696	18.02 ug/L		100
118)	p-diethylbenzene	16.89	119	195257	16.84 ug/L		98
119)	1,2-dichlorobenzene	17.03	146	185714	18.22 ug/L		99
120)	n-butylbenzene	16.93	92	196297	18.19 ug/L		98
121)	1,2,4,5-tetramethylbenzene	17.76	119	296139	16.42 ug/L		99
122)	1,2-dibromo-3-chloropropan	17.85	75	17516	18.36 ug/L		99
123)	1,3,5-trichlorobenzene	18.11	180	151254	18.63 ug/L		99
124)	1,2,4-trichlorobenzene	18.81	180	130293	18.88 ug/L		100
125)	hexachlorobutadiene	18.98	225	73652	18.89 ug/L	#	69
126)	naphthalene	19.12	128	281324	21.49 ug/L		99
127)	1,2,3-trichlorobenzene	19.39	180	110990	22.75 ug/L		97
128)	hexachloroethane	17.36	119	61412	17.99 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D190174A.D Vial: 52
Acq On : 10 Dec 2011 11:33 am Operator: EmilyT
Sample : cc7671-20 Inst : MSD
Misc : MS22340,VD7742,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 16:14 2011 Quant Results File: MD7671.RES

Method : C:\HPCHEM\1\METHODS\MD7671.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Fri Dec 09 07:47:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121113.D
Acq On : 28 Nov 2011 2:23 pm
Operator : tamikag
Sample : IC5154-0.5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 29 17:29:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:29:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.272	65	73246	500.00	ug/L	-0.05
5) pentafluorobenzene	9.971	168	230940	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.132	114	331722	50.00	ug/L	-0.03
93) chlorobenzene-d5	15.358	117	314004	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	164107	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.023	113	3398	1.47	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery	=	2.94%#	
55) 1,2-dichloroethane-d4 (s)	10.551	65	4145	1.81	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery	=	3.62%#	
85) toluene-d8 (s)	13.329	98	12678	1.53	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery	=	3.06%#	
110) 4-bromofluorobenzene (s)	16.864	95	11417	3.27	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery	=	6.54%#	
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.397	59	556	2.37	ug/L #	35
4) 1,4-dioxane	12.089	88	147	8.69	ug/L #	26
11) chlorodifluoromethane	3.789	51	1019	0.42	ug/L	67
12) dichlorodifluoromethane	3.752	85	1632	0.63	ug/L	89
15) chloromethane	4.081	50	2427	0.64	ug/L	92
16) vinyl chloride	4.338	62	1707	0.55	ug/L	91
18) bromomethane	4.997	94	1346	0.67	ug/L	87
19) chloroethane	5.159	64	843	0.52	ug/L #	54
21) trichlorofluoromethane	5.651	101	1978	0.61	ug/L	90
22) pentane	5.718	43	2202	0.48	ug/L #	68
23) ethyl ether	6.069	74	262	0.20	ug/L #	41
27) acrolein	6.357	56	1362	3.34	ug/L #	94
28) 1,1-dichloroethene	6.519	96	575	0.27	ug/L #	74
31) acetonitrile	7.099	40	1924	11.38	ug/L #	48
32) iodomethane	6.822	142	1123	0.28	ug/L	88
33) iso-butyl alcohol	10.373	43	378	3.77	ug/L #	70
34) carbon disulfide	6.953	76	2365	0.31	ug/L	81
35) methylene chloride	7.314	84	1089	0.42	ug/L	90
36) methyl acetate	7.105	43	651	0.40	ug/L #	58
37) methyl tert butyl ether	7.701	73	1606	0.26	ug/L	75
38) trans-1,2-dichloroethene	7.737	96	536	0.23	ug/L	89
39) di-isopropyl ether	8.375	45	4058	0.48	ug/L #	53
41) 1,1-dichloroethane	8.412	63	1260	0.28	ug/L	77
42) chloroprene	8.527	53	1421	0.42	ug/L	87
43) acrylonitrile	7.711	53	543	0.78	ug/L #	66
45) ethyl tert-butyl ether	8.946	59	3272	0.46	ug/L	95
47) 2,2-dichloropropane	9.296	77	910	0.26	ug/L	74
48) cis-1,2-dichloroethene	9.301	96	680	0.25	ug/L	81
49) propionitrile	9.432	54	653	2.40	ug/L #	11
50) tert-Butyl Formate	9.814	59	577	0.33	ug/L #	83
53) chloroform	9.767	83	1282	0.29	ug/L	85
56) freon 113	6.503	151	629	0.37	ug/L #	44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121113.D
Acq On : 28 Nov 2011 2:23 pm
Operator : tamikag
Sample : IC5154-0.5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 29 17:29:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:29:24 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	cyclohexane	10.164	84	844	0.26	ug/L		87
61)	iso-octane	10.645	57	4356	0.47	ug/L		97
64)	epichlorohydrin	12.685	57	305	1.73	ug/L		78
65)	n-butyl alcohol	11.362	56	1602	26.97	ug/L		91
66)	carbon tetrachloride	10.321	117	874	0.29	ug/L		75
67)	1,1-dichloropropene	10.300	75	983	0.31	ug/L	#	67
68)	hexane	8.077	57	1828	0.55	ug/L		88
69)	benzene	10.635	78	2968	0.31	ug/L		99
70)	tert-amyl methyl ether	10.692	73	2930	0.48	ug/L		89
71)	heptane	10.870	57	800	0.41	ug/L		81
72)	isopropyl acetate	10.588	43	2014	0.46	ug/L	#	77
73)	1,2-dichloroethane	10.666	62	676	0.25	ug/L	#	50
74)	trichloroethene	11.566	130	764	0.31	ug/L	#	64
78)	2-chloroethyl vinyl ether	12.685	63	1715	1.92	ug/L		70
80)	1,2-dichloropropane	11.927	63	683	0.26	ug/L	#	48
82)	methylcyclohexane	11.854	83	1603	0.43	ug/L		91
83)	bromodichloromethane	12.324	83	970	0.31	ug/L		84
84)	cis-1,3-dichloropropene	12.947	75	1088	0.26	ug/L		95
87)	toluene	13.444	92	1988	0.33	ug/L	#	67
88)	3-methyl-1-butanol	13.161	55	868	9.94	ug/L		84
89)	trans-1,3-dichloropropene	13.721	75	1094	0.30	ug/L		87
90)	ethyl methacrylate	13.742	69	746	0.28	ug/L		75
91)	1,1,2-trichloroethane	14.019	83	504	0.29	ug/L		77
94)	3,3-Dimethyl-1-butanol	14.526	57	995	5.18	ug/L	#	96
95)	tetrachloroethene	14.218	164	608	0.28	ug/L		80
96)	1,3-dichloropropane	14.249	76	1009	0.29	ug/L		91
97)	butyl acetate	14.385	56	516	0.35	ug/L		92
98)	dibromochloromethane	14.589	129	780	0.30	ug/L		86
99)	1,2-dibromoethane	14.777	107	555	0.26	ug/L		98
101)	chlorobenzene	15.405	112	2304	0.32	ug/L		95
102)	1,1,1,2-tetrachloroethane	15.494	131	841	0.33	ug/L		99
103)	ethylbenzene	15.489	91	3953	0.33	ug/L		89
104)	m,p-xylene	15.635	106	3113	0.66	ug/L		92
105)	o-xylene	16.179	106	1450	0.31	ug/L		92
106)	styrene	16.200	104	2546	0.33	ug/L		92
107)	bromoform	16.519	173	650	0.36	ug/L		75
109)	isopropylbenzene	16.618	105	3945	0.32	ug/L		97
111)	bromobenzene	17.084	156	1242	0.38	ug/L	#	80
112)	1,1,2,2-tetrachloroethane	17.011	83	1125	0.38	ug/L		94
113)	trans-1,4-dichloro-2-b...	17.063	53	181	0.25	ug/L		90
114)	1,2,3-trichloropropane	17.089	110	165	0.23	ug/L	#	1
115)	n-propylbenzene	17.115	91	5252	0.35	ug/L		92
117)	2-chlorotoluene	17.267	126	1020	0.33	ug/L	#	84
118)	4-chlorotoluene	17.382	91	3408	0.37	ug/L		94
119)	1,3,5-trimethylbenzene	17.288	105	3689	0.36	ug/L		91
120)	tert-butylbenzene	17.670	119	3169	0.35	ug/L		93
121)	pentachloroethane	17.759	167	809	0.40	ug/L		90
122)	1,2,4-trimethylbenzene	17.722	105	4171	0.39	ug/L		99
124)	sec-butylbenzene	17.900	105	4715	0.35	ug/L		93
125)	1,3-dichlorobenzene	18.093	146	2642	0.42	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121113.D
Acq On : 28 Nov 2011 2:23 pm
Operator : tamikag
Sample : IC5154-0.5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 29 17:29:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:29:24 2011
Response via : Initial Calibration

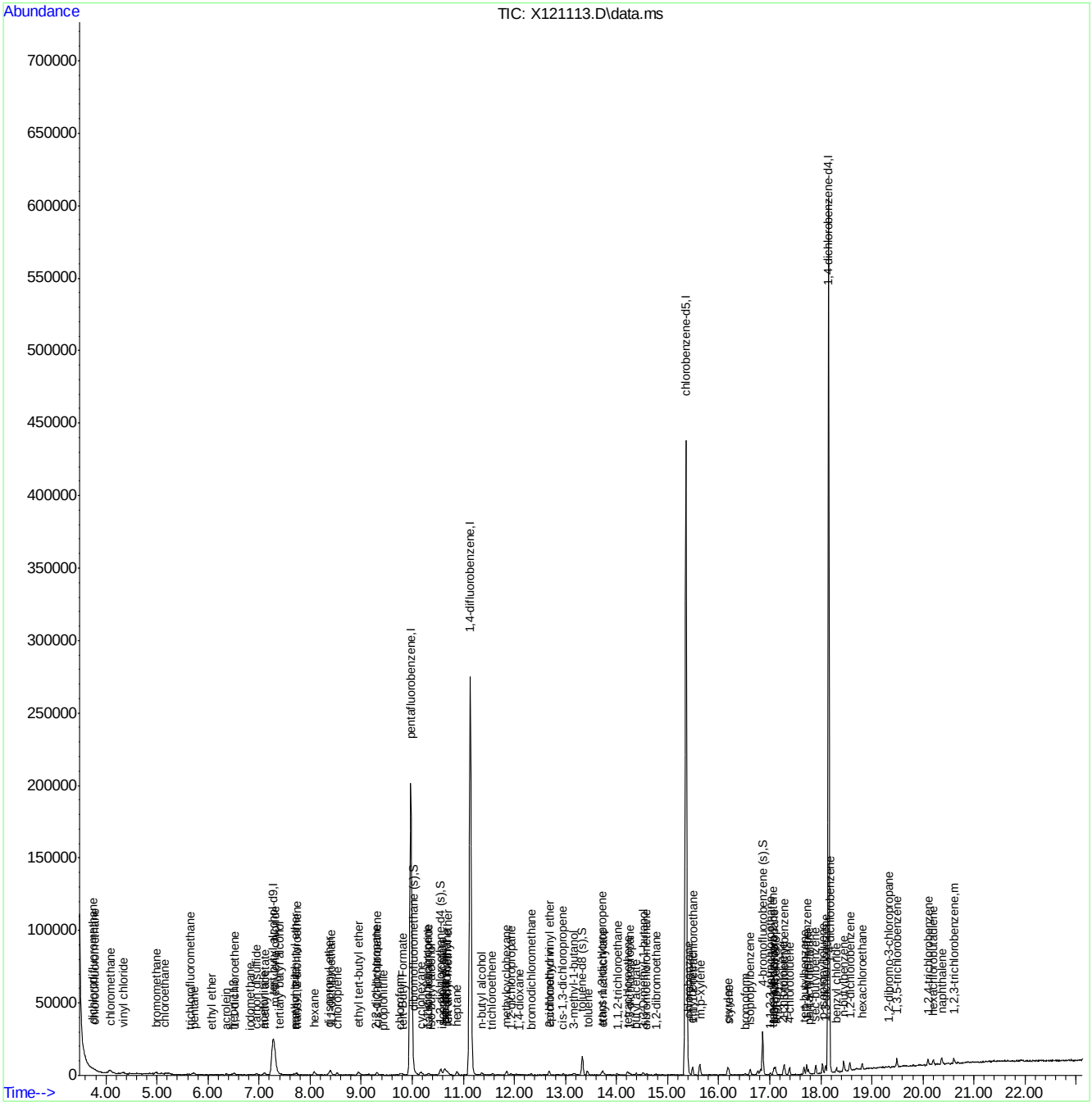
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
126) p-isopropyltoluene	18.031	119	4246	0.38 ug/L	92
127) 1,4-dichlorobenzene	18.177	146	2833	0.45 ug/L	88
128) 1,2-dichlorobenzene	18.569	146	2692	0.45 ug/L	93
129) benzyl chloride	18.302	91	2730	0.51 ug/L	96
131) n-butylbenzene	18.449	92	2277	0.37 ug/L	97
133) 1,2-dibromo-3-chloropr...	19.328	75	349	0.66 ug/L #	14
134) 1,3,5-trichlorobenzene	19.485	180	2399	0.47 ug/L	94
135) hexachlorobutadiene	20.201	225	1030	0.39 ug/L	96
136) naphthalene	20.368	128	3607	0.44 ug/L	97
137) 1,2,4-trichlorobenzene	20.102	180	1854	0.42 ug/L	92
138) 1,2,3-trichlorobenzene	20.604	180	1642	0.43 ug/L	91
139) hexachloroethane	18.815	201	827	0.42 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121113.D
Acq On : 28 Nov 2011 2:23 pm
Operator : tamikag
Sample : IC5154-0.5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 29 17:29:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:29:24 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121114.D
Acq On : 28 Nov 2011 2:52 pm
Operator : tamikag
Sample : IC5154-1
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 29 17:30:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:24:15 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.282	65	72464	500.00	ug/L	-0.04
5) pentafluorobenzene	9.981	168	236180	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.142	114	334300	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	312467	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	160287	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	3947	1.67	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery	=	3.34%#	
55) 1,2-dichloroethane-d4 (s)	10.556	65	4317	1.85	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery	=	3.70%#	
85) toluene-d8 (s)	13.334	98	15062	1.80	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 125		Recovery	=	3.60%#	
110) 4-bromofluorobenzene (s)	16.864	95	11472	3.36	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery	=	6.72%#	
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.418	59	1355	5.84	ug/L	70
4) 1,4-dioxane	12.104	88	633	37.82	ug/L #	46
11) chlorodifluoromethane	3.788	51	2083	0.85	ug/L	67
12) dichlorodifluoromethane	3.752	85	2646	0.99	ug/L	89
15) chloromethane	4.071	50	3702	0.96	ug/L	97
16) vinyl chloride	4.327	62	2763	0.87	ug/L	94
18) bromomethane	4.991	94	1873	0.91	ug/L	83
19) chloroethane	5.174	64	1333	0.80	ug/L	91
21) trichlorofluoromethane	5.640	101	3130	0.94	ug/L	81
22) pentane	5.724	43	4484	0.95	ug/L #	86
23) ethyl ether	6.069	74	666	0.51	ug/L #	68
27) acrolein	6.346	56	631058	1514.81	ug/L #	95
28) 1,1-dichloroethene	6.529	96	1184	0.55	ug/L #	78
29) acetone	6.597	58	780	4.30	ug/L #	77
30) allyl chloride	7.110	76	609	0.41	ug/L #	56
31) acetonitrile	7.089	40	2220	12.84	ug/L #	55
32) iodomethane	6.817	142	2301	0.56	ug/L	88
33) iso-butyl alcohol	10.373	43	1188	11.59	ug/L	90
34) carbon disulfide	6.953	76	4553	0.59	ug/L	85
35) methylene chloride	7.319	84	1772	0.66	ug/L	91
36) methyl acetate	7.110	43	1475	0.88	ug/L #	59
37) methyl tert butyl ether	7.701	73	3644	0.57	ug/L	99
38) trans-1,2-dichloroethene	7.753	96	1406	0.58	ug/L #	72
39) di-isopropyl ether	8.386	45	9160	1.05	ug/L #	61
41) 1,1-dichloroethane	8.412	63	2574	0.56	ug/L	86
42) chloroprene	8.537	53	3466	1.00	ug/L	89
43) acrylonitrile	7.716	53	1834	2.57	ug/L	87
45) ethyl tert-butyl ether	8.956	59	7739	1.07	ug/L	96
47) 2,2-dichloropropane	9.301	77	1919	0.54	ug/L	91
48) cis-1,2-dichloroethene	9.317	96	1895	0.69	ug/L	99
49) propionitrile	9.427	54	1520	5.47	ug/L #	64
50) tert-Butyl Formate	9.819	59	1710	0.95	ug/L #	94

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121114.D
Acq On : 28 Nov 2011 2:52 pm
Operator : tamikag
Sample : IC5154-1
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 29 17:30:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:24:15 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
51)	bromochloromethane	9.704	128	622	0.48	ug/L		85
53)	chloroform	9.777	83	2566	0.57	ug/L		83
56)	freon 113	6.487	151	1575	0.91	ug/L		81
57)	methacrylonitrile	9.646	41	511	0.39	ug/L	#	63
58)	1,1,1-trichloroethane	10.080	97	2033	0.57	ug/L		76
59)	cyclohexane	10.159	84	1879	0.57	ug/L	#	66
61)	iso-octane	10.645	57	9608	1.01	ug/L		98
64)	epichlorohydrin	12.680	57	741	4.17	ug/L		93
65)	n-butyl alcohol	11.357	56	3276	54.73	ug/L		84
66)	carbon tetrachloride	10.326	117	1859	0.62	ug/L		98
67)	1,1-dichloropropene	10.305	75	1912	0.59	ug/L		92
68)	hexane	8.088	57	3566	1.06	ug/L		97
69)	benzene	10.635	78	5998	0.62	ug/L		94
70)	tert-amyl methyl ether	10.698	73	6926	1.13	ug/L		97
71)	heptane	10.881	57	1818	0.93	ug/L		79
72)	isopropyl acetate	10.593	43	4484	1.02	ug/L		94
73)	1,2-dichloroethane	10.671	62	1738	0.64	ug/L		85
74)	trichloroethene	11.587	130	1497	0.60	ug/L		93
78)	2-chloroethyl vinyl ether	12.685	63	4188	4.65	ug/L		97
79)	methyl methacrylate	11.989	69	717	0.50	ug/L	#	56
80)	1,2-dichloropropane	11.937	63	1689	0.64	ug/L		93
81)	dibromomethane	12.146	93	766	0.55	ug/L		89
82)	methylcyclohexane	11.859	83	3731	0.99	ug/L		87
83)	bromodichloromethane	12.340	83	1849	0.58	ug/L		97
84)	cis-1,3-dichloropropene	12.957	75	2356	0.56	ug/L		93
86)	4-methyl-2-pentanone	13.109	58	427	0.53	ug/L	#	78
87)	toluene	13.433	92	3760	0.61	ug/L		87
88)	3-methyl-1-butanol	13.166	55	2177	24.73	ug/L		91
89)	trans-1,3-dichloropropene	13.726	75	2071	0.57	ug/L		91
90)	ethyl methacrylate	13.752	69	1298	0.48	ug/L		84
91)	1,1,2-trichloroethane	14.014	83	978	0.55	ug/L		95
92)	2-hexanone	14.280	58	406	0.52	ug/L		78
94)	3,3-Dimethyl-1-butanol	14.526	57	2317	12.13	ug/L	#	97
95)	tetrachloroethene	14.212	164	1294	0.59	ug/L		85
96)	1,3-dichloropropane	14.254	76	2056	0.59	ug/L		82
97)	butyl acetate	14.390	56	1632	1.11	ug/L	#	81
98)	dibromochloromethane	14.599	129	1633	0.63	ug/L		98
99)	1,2-dibromoethane	14.782	107	1308	0.62	ug/L		92
101)	chlorobenzene	15.400	112	4211	0.59	ug/L		96
102)	1,1,1,2-tetrachloroethane	15.499	131	1538	0.60	ug/L		86
103)	ethylbenzene	15.488	91	6901	0.58	ug/L		99
104)	m,p-xylene	15.635	106	5419	1.16	ug/L		93
105)	o-xylene	16.179	106	2623	0.56	ug/L		96
106)	styrene	16.195	104	4606	0.59	ug/L		99
107)	bromoform	16.524	173	1054	0.59	ug/L		90
109)	isopropylbenzene	16.618	105	6754	0.56	ug/L		98
111)	bromobenzene	17.084	156	2175	0.68	ug/L		95
112)	1,1,2,2-tetrachloroethane	17.016	83	2012	0.69	ug/L		86
113)	trans-1,4-dichloro-2-b...	17.052	53	393	0.56	ug/L	#	37
114)	1,2,3-trichloropropane	17.089	110	407	0.59	ug/L	#	56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121114.D
Acq On : 28 Nov 2011 2:52 pm
Operator : tamikag
Sample : IC5154-1
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 29 17:30:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:24:15 2011
Response via : Initial Calibration

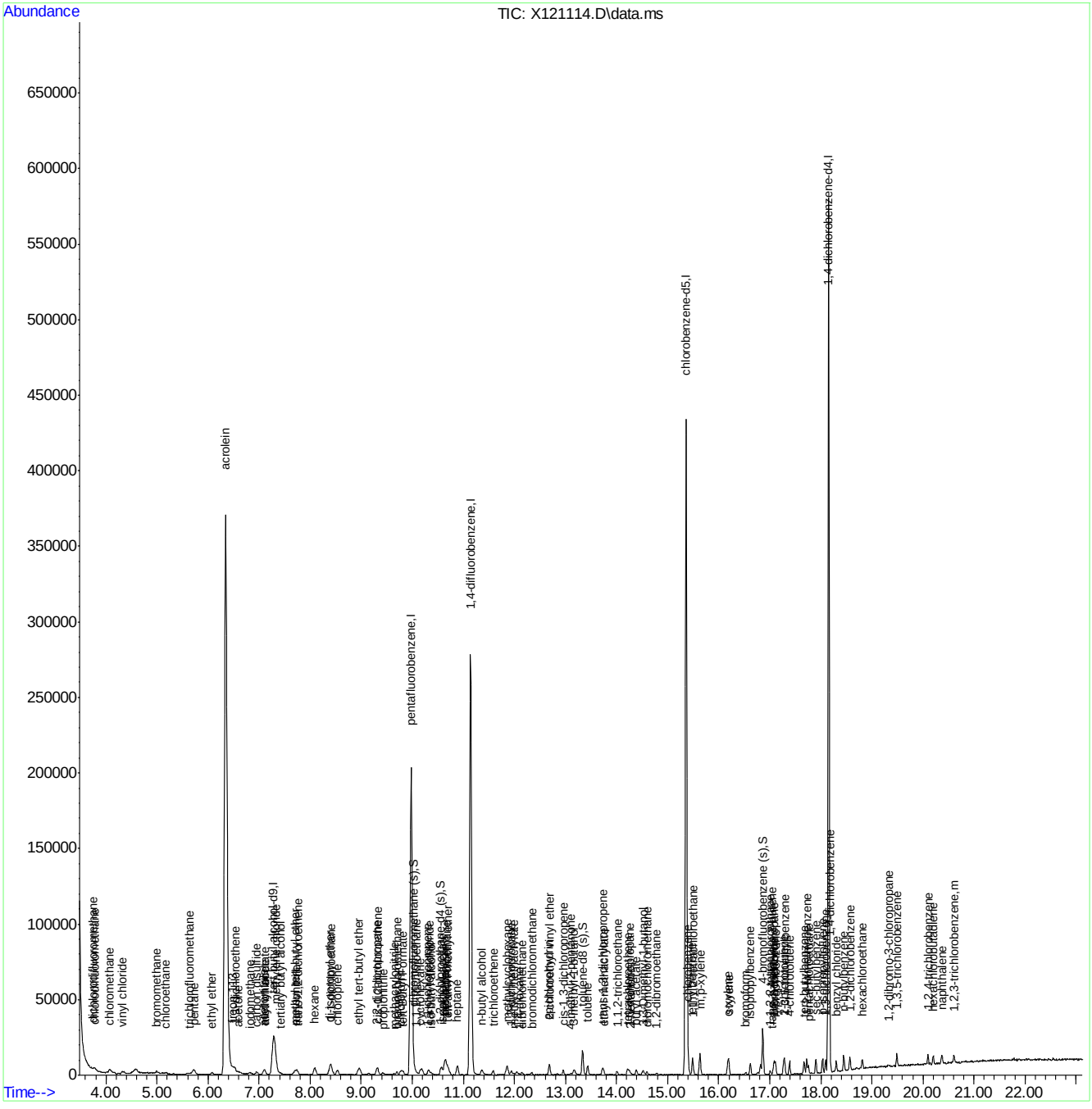
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
115) n-propylbenzene	17.115	91	7880	0.54 ug/L	96
117) 2-chlorotoluene	17.272	126	1844	0.61 ug/L #	79
118) 4-chlorotoluene	17.387	91	5312	0.59 ug/L	96
119) 1,3,5-trimethylbenzene	17.293	105	5828	0.58 ug/L	96
120) tert-butylbenzene	17.675	119	5361	0.61 ug/L	97
121) pentachloroethane	17.758	167	1323	0.66 ug/L	92
122) 1,2,4-trimethylbenzene	17.727	105	6204	0.60 ug/L	98
124) sec-butylbenzene	17.905	105	7771	0.59 ug/L	95
125) 1,3-dichlorobenzene	18.093	146	4054	0.66 ug/L	94
126) p-isopropyltoluene	18.036	119	6584	0.60 ug/L	96
127) 1,4-dichlorobenzene	18.177	146	4276	0.69 ug/L	96
128) 1,2-dichlorobenzene	18.569	146	3859	0.66 ug/L	97
129) benzyl chloride	18.302	91	5770	1.10 ug/L	97
131) n-butylbenzene	18.454	92	3192	0.53 ug/L	94
133) 1,2-dibromo-3-chloropr...	19.327	75	454	0.89 ug/L #	79
134) 1,3,5-trichlorobenzene	19.490	180	3320	0.66 ug/L	95
135) hexachlorobutadiene	20.201	225	1593	0.62 ug/L	94
136) naphthalene	20.374	128	4734	0.60 ug/L	100
137) 1,2,4-trichlorobenzene	20.102	180	2673	0.62 ug/L	93
138) 1,2,3-trichlorobenzene	20.609	180	2242	0.60 ug/L	96
139) hexachloroethane	18.804	201	1176	0.61 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121114.D
Acq On : 28 Nov 2011 2:52 pm
Operator : tamikag
Sample : IC5154-1
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 29 17:30:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:24:15 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121115.D
Acq On : 28 Nov 2011 3:22 pm
Operator : tamikag
Sample : IC5154-2
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 29 17:30:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	71574	500.00	ug/L	-0.03
5) pentafluorobenzene	9.981	168	235913	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.142	114	330410	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	309119	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	161106	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.023	113	5322	2.26	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery	=	4.52%#	
55) 1,2-dichloroethane-d4 (s)	10.562	65	5406	2.31	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery	=	4.62%#	
85) toluene-d8 (s)	13.334	98	19799	2.40	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 125		Recovery	=	4.80%#	
110) 4-bromofluorobenzene (s)	16.864	95	13316	3.88	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery	=	7.76%#	
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.408	59	1854	8.09	ug/L	54
4) 1,4-dioxane	12.099	88	818	49.48	ug/L #	84
11) chlorodifluoromethane	3.767	51	3386	1.38	ug/L	90
12) dichlorodifluoromethane	3.741	85	5466	2.06	ug/L	97
15) chloromethane	4.071	50	6794	1.76	ug/L	99
16) vinyl chloride	4.317	62	5455	1.71	ug/L	97
18) bromomethane	4.991	94	3720	1.82	ug/L	87
19) chloroethane	5.185	64	2682	1.61	ug/L	95
21) trichlorofluoromethane	5.656	101	6257	1.88	ug/L	83
22) pentane	5.708	43	6684	1.42	ug/L #	79
23) ethyl ether	6.069	74	1902	1.45	ug/L	92
27) acrolein	6.341	56	322204	774.30	ug/L #	94
28) 1,1-dichloroethene	6.519	96	3304	1.53	ug/L	98
29) acetone	6.592	58	485	2.68	ug/L #	70
30) allyl chloride	7.110	76	2177	1.46	ug/L #	81
31) acetonitrile	7.094	40	3688	21.35	ug/L #	72
32) iodomethane	6.811	142	6875	1.67	ug/L	94
33) iso-butyl alcohol	10.378	43	1670	16.32	ug/L	87
34) carbon disulfide	6.953	76	12484	1.63	ug/L	100
35) methylene chloride	7.324	84	4274	1.60	ug/L	96
36) methyl acetate	7.099	43	2602	1.55	ug/L	69
37) methyl tert butyl ether	7.690	73	10081	1.59	ug/L	97
38) trans-1,2-dichloroethene	7.742	96	3927	1.63	ug/L	86
39) di-isopropyl ether	8.386	45	15332	1.76	ug/L #	67
41) 1,1-dichloroethane	8.412	63	7431	1.61	ug/L	96
42) chloroprene	8.537	53	5685	1.63	ug/L	93
43) acrylonitrile	7.701	53	5509	7.72	ug/L	97
44) vinyl acetate	8.407	86	413	1.12	ug/L #	1
45) ethyl tert-butyl ether	8.951	59	12320	1.70	ug/L	98
46) ethyl acetate	9.317	70	101	0.44	ug/L #	1
47) 2,2-dichloropropane	9.306	77	5577	1.58	ug/L	90
48) cis-1,2-dichloroethene	9.312	96	4490	1.63	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121115.D
Acq On : 28 Nov 2011 3:22 pm
Operator : tamikag
Sample : IC5154-2
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 29 17:30:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) propionitrile	9.411	54	4498	16.21 ug/L	79
50) tert-Butyl Formate	9.819	59	2968	1.65 ug/L #	97
51) bromochloromethane	9.699	128	2097	1.63 ug/L	90
52) tetrahydrofuran	9.740	42	1370	1.82 ug/L	63
53) chloroform	9.772	83	7283	1.63 ug/L	91
56) freon 113	6.492	151	2586	1.50 ug/L	79
57) methacrylonitrile	9.641	41	1943	1.50 ug/L	94
58) 1,1,1-trichloroethane	10.070	97	5452	1.53 ug/L	85
59) cyclohexane	10.164	84	5232	1.59 ug/L	87
61) iso-octane	10.635	57	14945	1.57 ug/L	94
64) epichlorohydrin	12.675	57	1364	7.77 ug/L	86
65) n-butyl alcohol	11.357	56	4476	75.65 ug/L	94
66) carbon tetrachloride	10.331	117	5467	1.84 ug/L	87
67) 1,1-dichloropropene	10.310	75	5389	1.69 ug/L	94
68) hexane	8.088	57	7480	2.24 ug/L	90
69) benzene	10.635	78	16308	1.70 ug/L	94
70) tert-amyl methyl ether	10.698	73	11372	1.88 ug/L	99
71) heptane	10.881	57	2964	1.53 ug/L	88
72) isopropyl acetate	10.588	43	7049	1.62 ug/L	98
73) 1,2-dichloroethane	10.671	62	4761	1.78 ug/L	99
74) trichloroethene	11.587	130	4252	1.71 ug/L	88
78) 2-chloroethyl vinyl ether	12.680	63	6807	7.65 ug/L	99
79) methyl methacrylate	11.984	69	2118	1.49 ug/L #	70
80) 1,2-dichloropropane	11.937	63	4404	1.69 ug/L	84
81) dibromomethane	12.141	93	2243	1.62 ug/L	97
82) methylcyclohexane	11.853	83	5739	1.54 ug/L	94
83) bromodichloromethane	12.329	83	5265	1.67 ug/L	95
84) cis-1,3-dichloropropene	12.957	75	6918	1.66 ug/L	94
86) 4-methyl-2-pentanone	13.109	58	1183	1.49 ug/L	90
87) toluene	13.438	92	10245	1.68 ug/L	97
88) 3-methyl-1-butanol	13.166	55	2667	30.65 ug/L	90
89) trans-1,3-dichloropropene	13.731	75	6016	1.67 ug/L	98
90) ethyl methacrylate	13.742	69	4053	1.50 ug/L	99
91) 1,1,2-trichloroethane	14.013	83	3042	1.73 ug/L	93
92) 2-hexanone	14.270	58	1280	1.67 ug/L	92
94) 3,3-Dimethyl-1-butanol	14.516	57	2695	14.26 ug/L #	95
95) tetrachloroethene	14.223	164	3992	1.84 ug/L	91
96) 1,3-dichloropropane	14.249	76	5724	1.65 ug/L	95
97) butyl acetate	14.385	56	2279	1.56 ug/L	99
98) dibromochloromethane	14.594	129	4422	1.72 ug/L	97
99) 1,2-dibromoethane	14.782	107	3413	1.64 ug/L	97
101) chlorobenzene	15.400	112	11659	1.66 ug/L	97
102) 1,1,1,2-tetrachloroethane	15.488	131	4371	1.73 ug/L	99
103) ethylbenzene	15.488	91	19277	1.62 ug/L	99
104) m,p-xylene	15.635	106	15660	3.38 ug/L	94
105) o-xylene	16.179	106	7753	1.68 ug/L	94
106) styrene	16.195	104	12423	1.62 ug/L	98
107) bromoform	16.524	173	3266	1.86 ug/L	91
109) isopropylbenzene	16.618	105	19166	1.58 ug/L	96
111) bromobenzene	17.078	156	5719	1.77 ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121115.D
Acq On : 28 Nov 2011 3:22 pm
Operator : tamikag
Sample : IC5154-2
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 29 17:30:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

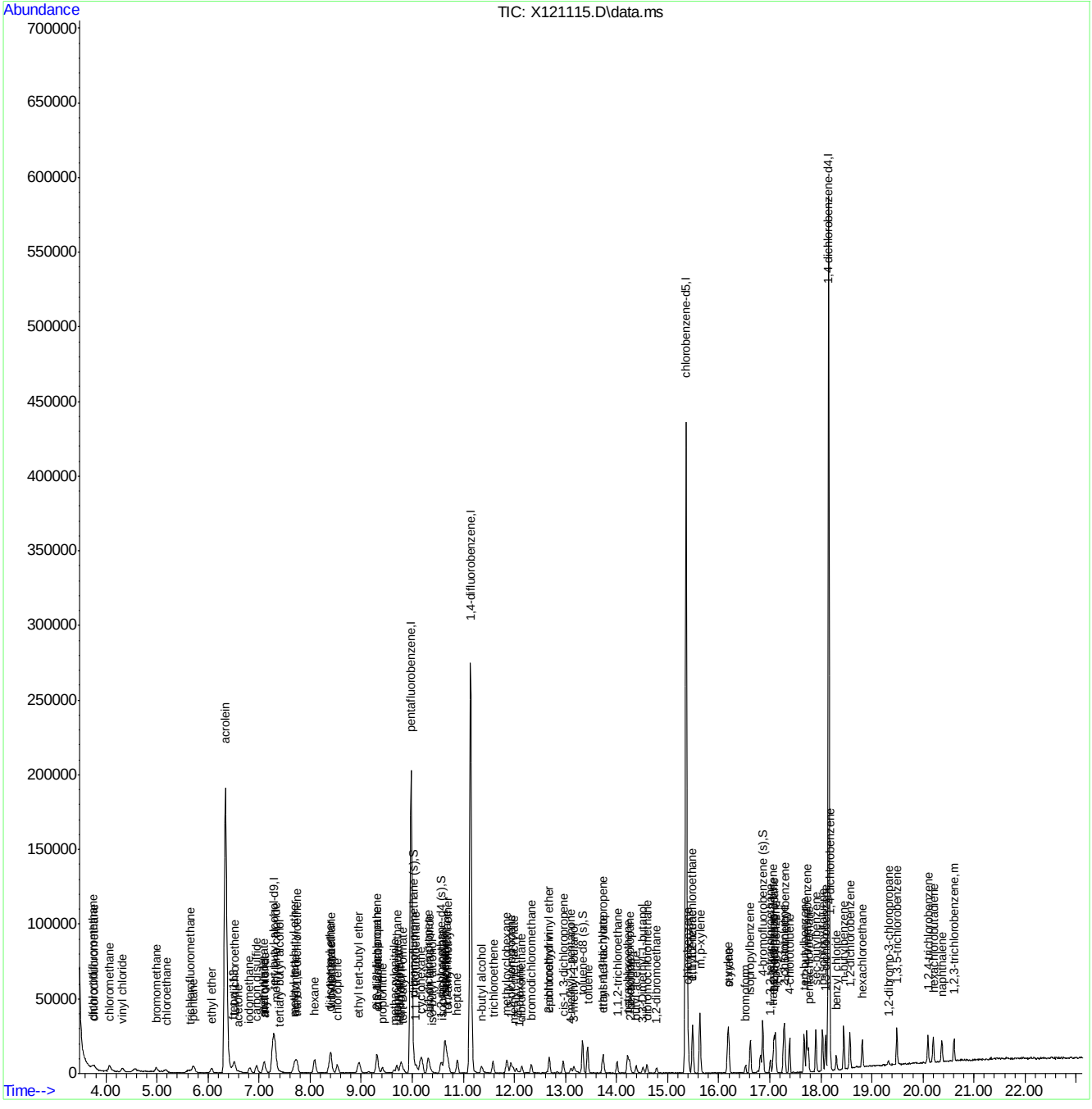
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
112) 1,1,2,2-tetrachloroethane	17.010	83	5123	1.75 ug/L	95
113) trans-1,4-dichloro-2-b...	17.068	53	1119	1.57 ug/L #	57
114) 1,2,3-trichloropropane	17.089	110	1202	1.73 ug/L #	58
115) n-propylbenzene	17.115	91	23770	1.62 ug/L	98
117) 2-chlorotoluene	17.272	126	5254	1.74 ug/L	97
118) 4-chlorotoluene	17.382	91	15065	1.66 ug/L	99
119) 1,3,5-trimethylbenzene	17.293	105	16386	1.63 ug/L	99
120) tert-butylbenzene	17.669	119	14646	1.66 ug/L	99
121) pentachloroethane	17.758	167	3960	1.97 ug/L	94
122) 1,2,4-trimethylbenzene	17.722	105	17110	1.64 ug/L	99
124) sec-butylbenzene	17.905	105	22181	1.66 ug/L	98
125) 1,3-dichlorobenzene	18.093	146	11154	1.82 ug/L	97
126) p-isopropyltoluene	18.036	119	18369	1.66 ug/L	97
127) 1,4-dichlorobenzene	18.177	146	11154	1.78 ug/L	97
128) 1,2-dichlorobenzene	18.569	146	10339	1.77 ug/L	99
129) benzyl chloride	18.308	91	8274	1.57 ug/L	98
131) n-butylbenzene	18.449	92	9361	1.56 ug/L	98
133) 1,2-dibromo-3-chloropr...	19.327	75	982	1.91 ug/L	91
134) 1,3,5-trichlorobenzene	19.490	180	9183	1.81 ug/L	94
135) hexachlorobutadiene	20.206	225	4659	1.81 ug/L	94
136) naphthalene	20.368	128	12088	1.51 ug/L	98
137) 1,2,4-trichlorobenzene	20.096	180	7144	1.65 ug/L	94
138) 1,2,3-trichlorobenzene	20.609	180	6096	1.61 ug/L	95
139) hexachloroethane	18.815	201	3568	1.84 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121115.D
Acq On : 28 Nov 2011 3:22 pm
Operator : tamikag
Sample : IC5154-2
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 29 17:30:03 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121116.D
Acq On : 28 Nov 2011 3:51 pm
Operator : tamikag
Sample : IC5154-5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 29 17:30:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	67531	500.00	ug/L	-0.03
5) pentafluorobenzene	9.981	168	225807	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.142	114	320424	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	300132	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	158437	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.023	113	11009	4.88	ug/L	-0.03
Spiked Amount 50.000 Range 67 - 131 Recovery = 9.76%#						
55) 1,2-dichloroethane-d4 (s)	10.562	65	11431	5.11	ug/L	-0.02
Spiked Amount 50.000 Range 66 - 130 Recovery = 10.22%#						
85) toluene-d8 (s)	13.334	98	42985	5.37	ug/L	-0.02
Spiked Amount 50.000 Range 76 - 125 Recovery = 10.74%#						
110) 4-bromofluorobenzene (s)	16.864	95	21215	6.29	ug/L	-0.02
Spiked Amount 50.000 Range 53 - 142 Recovery = 12.58%#						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.423	59	4454	20.59	ug/L	91
4) 1,4-dioxane	12.105	88	2381	152.66	ug/L #	91
11) chlorodifluoromethane	3.778	51	8948	3.81	ug/L	91
12) dichlorodifluoromethane	3.762	85	13500	5.31	ug/L	97
15) chloromethane	4.081	50	16296	4.40	ug/L	97
16) vinyl chloride	4.338	62	13111	4.30	ug/L	96
18) bromomethane	4.997	94	8863	4.52	ug/L	94
19) chloroethane	5.180	64	6992	4.39	ug/L	95
21) trichlorofluoromethane	5.656	101	15021	4.72	ug/L	98
22) pentane	5.724	43	18577	4.13	ug/L	96
23) ethyl ether	6.074	74	5781	4.61	ug/L	93
27) acrolein	6.346	56	16339	41.02	ug/L #	95
28) 1,1-dichloroethene	6.529	96	9779	4.74	ug/L	97
29) acetone	6.608	58	593	3.42	ug/L #	82
30) allyl chloride	7.104	76	6736	4.73	ug/L	92
31) acetonitrile	7.089	40	9056	54.77	ug/L #	69
32) iodomethane	6.827	142	20380	5.16	ug/L	100
33) iso-butyl alcohol	10.368	43	4031	41.15	ug/L	95
34) carbon disulfide	6.958	76	35811	4.87	ug/L	99
35) methylene chloride	7.319	84	11790	4.62	ug/L	94
36) methyl acetate	7.099	43	6733	4.18	ug/L #	93
37) methyl tert butyl ether	7.701	73	28441	4.68	ug/L	99
38) trans-1,2-dichloroethene	7.743	96	11178	4.85	ug/L	97
39) di-isopropyl ether	8.396	45	37709	4.52	ug/L	99
40) 2-butanone	9.291	72	789	3.40	ug/L	75
41) 1,1-dichloroethane	8.412	63	20885	4.73	ug/L	98
42) chloroprene	8.538	53	14779	4.44	ug/L	97
43) acrylonitrile	7.701	53	15194	22.26	ug/L	93
44) vinyl acetate	8.412	86	1231	3.49	ug/L	40
45) ethyl tert-butyl ether	8.951	59	31151	4.50	ug/L	99
46) ethyl acetate	9.317	70	816	3.70	ug/L	94
47) 2,2-dichloropropane	9.312	77	16054	4.75	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121116.D
Acq On : 28 Nov 2011 3:51 pm
Operator : tamikag
Sample : IC5154-5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 29 17:30:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.312	96	12396	4.69	ug/L		96
49)	propionitrile	9.411	54	11971	45.08	ug/L		91
50)	tert-Butyl Formate	9.808	59	7257	4.22	ug/L	#	97
51)	bromochloromethane	9.699	128	5837	4.75	ug/L		97
52)	tetrahydrofuran	9.756	42	3402	4.72	ug/L		87
53)	chloroform	9.782	83	20363	4.75	ug/L		99
56)	freon 113	6.508	151	7511	4.56	ug/L		83
57)	methacrylonitrile	9.641	41	5684	4.59	ug/L		91
58)	1,1,1-trichloroethane	10.075	97	15910	4.66	ug/L		97
59)	cyclohexane	10.164	84	15837	5.03	ug/L		97
61)	iso-octane	10.640	57	40820	4.48	ug/L		96
64)	epichlorohydrin	12.675	57	3272	19.21	ug/L		83
65)	n-butyl alcohol	11.346	56	11792	205.52	ug/L		94
66)	carbon tetrachloride	10.331	117	14875	5.16	ug/L		99
67)	1,1-dichloropropene	10.305	75	15306	4.95	ug/L		94
68)	hexane	8.093	57	14571	4.51	ug/L		96
69)	benzene	10.645	78	44689	4.80	ug/L		96
70)	tert-amyl methyl ether	10.698	73	27421	4.68	ug/L		99
71)	heptane	10.886	57	8323	4.43	ug/L		94
72)	isopropyl acetate	10.583	43	17558	4.16	ug/L		100
73)	1,2-dichloroethane	10.671	62	13273	5.12	ug/L		99
74)	trichloroethene	11.576	130	12187	5.05	ug/L		95
78)	2-chloroethyl vinyl ether	12.675	63	16977	19.68	ug/L		95
79)	methyl methacrylate	11.974	69	5946	4.30	ug/L		95
80)	1,2-dichloropropane	11.932	63	12328	4.87	ug/L		97
81)	dibromomethane	12.141	93	6423	4.78	ug/L		99
82)	methylcyclohexane	11.853	83	16065	4.44	ug/L		98
83)	bromodichloromethane	12.335	83	14903	4.87	ug/L		96
84)	cis-1,3-dichloropropene	12.952	75	18517	4.58	ug/L		92
86)	4-methyl-2-pentanone	13.098	58	3413	4.42	ug/L		87
87)	toluene	13.433	92	28668	4.86	ug/L		99
88)	3-methyl-1-butanol	13.161	55	6647	78.77	ug/L		91
89)	trans-1,3-dichloropropene	13.731	75	16297	4.66	ug/L		97
90)	ethyl methacrylate	13.747	69	11164	4.27	ug/L		97
91)	1,1,2-trichloroethane	14.003	83	7978	4.67	ug/L		98
92)	2-hexanone	14.265	58	3223	4.33	ug/L		86
94)	3,3-Dimethyl-1-butanol	14.510	57	7193	39.21	ug/L	#	99
95)	tetrachloroethene	14.212	164	10852	5.14	ug/L		96
96)	1,3-dichloropropane	14.249	76	15721	4.67	ug/L		94
97)	butyl acetate	14.385	56	5657	4.00	ug/L		98
98)	dibromochloromethane	14.594	129	11949	4.80	ug/L		95
99)	1,2-dibromoethane	14.782	107	9143	4.53	ug/L		92
101)	chlorobenzene	15.405	112	32192	4.71	ug/L		92
102)	1,1,1,2-tetrachloroethane	15.494	131	11864	4.83	ug/L		98
103)	ethylbenzene	15.489	91	53852	4.68	ug/L		100
104)	m,p-xylene	15.635	106	42331	9.40	ug/L		96
105)	o-xylene	16.179	106	21026	4.70	ug/L		94
106)	styrene	16.195	104	34237	4.59	ug/L		98
107)	bromoform	16.524	173	7758	4.54	ug/L		98
109)	isopropylbenzene	16.618	105	53408	4.47	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121116.D
Acq On : 28 Nov 2011 3:51 pm
Operator : tamikag
Sample : IC5154-5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 29 17:30:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

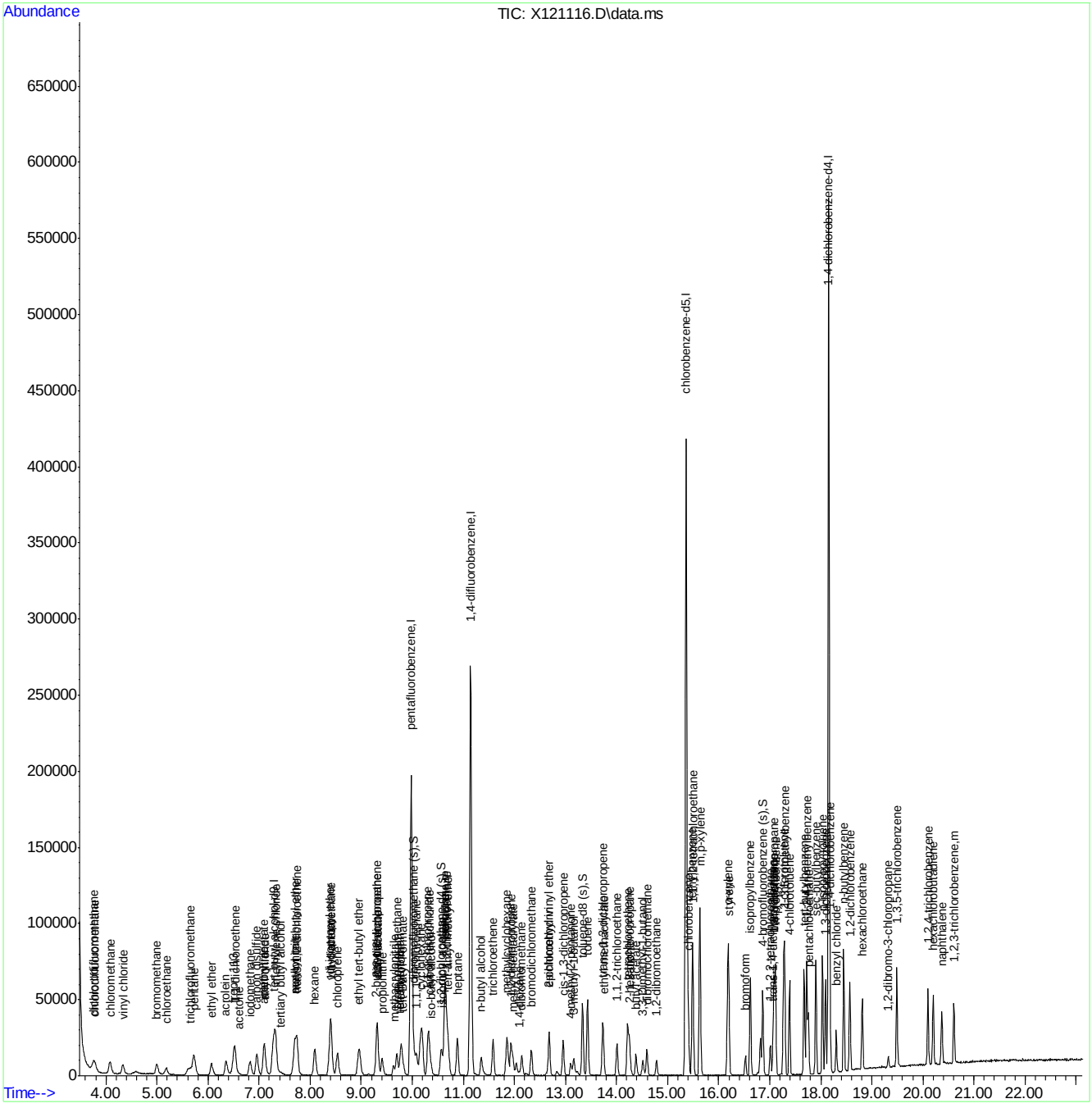
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.084	156	14737	4.64 ug/L	92
112) 1,1,2,2-tetrachloroethane	17.011	83	11956	4.15 ug/L	99
113) trans-1,4-dichloro-2-b...	17.058	53	2772	3.97 ug/L #	76
114) 1,2,3-trichloropropane	17.084	110	2947	4.31 ug/L #	80
115) n-propylbenzene	17.115	91	63662	4.42 ug/L	99
117) 2-chlorotoluene	17.272	126	13574	4.56 ug/L	93
118) 4-chlorotoluene	17.387	91	39120	4.39 ug/L	97
119) 1,3,5-trimethylbenzene	17.293	105	44248	4.47 ug/L	98
120) tert-butylbenzene	17.675	119	39610	4.57 ug/L	95
121) pentachloroethane	17.758	167	9536	4.83 ug/L	97
122) 1,2,4-trimethylbenzene	17.722	105	44089	4.31 ug/L	99
124) sec-butylbenzene	17.905	105	59559	4.54 ug/L	99
125) 1,3-dichlorobenzene	18.093	146	27812	4.61 ug/L	98
126) p-isopropyltoluene	18.030	119	49198	4.52 ug/L	99
127) 1,4-dichlorobenzene	18.182	146	27903	4.54 ug/L	98
128) 1,2-dichlorobenzene	18.569	146	25858	4.50 ug/L	95
129) benzyl chloride	18.302	91	20694	4.00 ug/L	99
131) n-butylbenzene	18.449	92	25606	4.34 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.322	75	2022	3.99 ug/L	94
134) 1,3,5-trichlorobenzene	19.490	180	23261	4.67 ug/L	97
135) hexachlorobutadiene	20.201	225	12116	4.78 ug/L	96
136) naphthalene	20.368	128	29105	3.70 ug/L	98
137) 1,2,4-trichlorobenzene	20.096	180	18100	4.25 ug/L	95
138) 1,2,3-trichlorobenzene	20.609	180	14907	4.01 ug/L	99
139) hexachloroethane	18.815	201	9253	4.84 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121116.D
Acq On : 28 Nov 2011 3:51 pm
Operator : tamikag
Sample : IC5154-5
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 29 17:30:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121117.D
Acq On : 28 Nov 2011 4:20 pm
Operator : tamikag
Sample : IC5154-10
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 29 17:30:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:15:26 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.282	65	71276	500.00	ug/L	-0.04
5) pentafluorobenzene	9.976	168	227864	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.142	114	322976	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	303588	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	157052	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	20859	9.17	ug/L	-0.03
Spiked Amount 50.000 Range 67 - 131 Recovery = 18.34%#						
55) 1,2-dichloroethane-d4 (s)	10.556	65	21366	9.47	ug/L	-0.02
Spiked Amount 50.000 Range 66 - 130 Recovery = 18.94%#						
85) toluene-d8 (s)	13.334	98	77529	9.61	ug/L	-0.02
Spiked Amount 50.000 Range 76 - 125 Recovery = 19.22%#						
110) 4-bromofluorobenzene (s)	16.864	95	34345	10.26	ug/L	-0.02
Spiked Amount 50.000 Range 53 - 142 Recovery = 20.52%#						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.408	59	9442	41.36	ug/L	87
4) 1,4-dioxane	12.099	88	4391	266.74	ug/L #	99
11) chlorodifluoromethane	3.778	51	16435	6.93	ug/L	93
12) dichlorodifluoromethane	3.762	85	24082	9.38	ug/L	93
15) chloromethane	4.081	50	29938	8.01	ug/L	95
16) vinyl chloride	4.327	62	24134	7.84	ug/L	99
18) bromomethane	4.997	94	15870	8.03	ug/L	99
19) chloroethane	5.169	64	13345	8.30	ug/L	93
21) trichlorofluoromethane	5.645	101	27695	8.62	ug/L	94
22) pentane	5.729	43	32303	7.12	ug/L	97
23) ethyl ether	6.064	74	10464	8.26	ug/L	88
27) acrolein	6.351	56	35624	88.63	ug/L #	96
28) 1,1-dichloroethene	6.519	96	15237	7.33	ug/L	94
29) acetone	6.597	58	1262	7.21	ug/L #	71
30) allyl chloride	7.104	76	11047	7.68	ug/L	91
31) acetonitrile	7.078	40	14554	87.23	ug/L	98
32) iodomethane	6.817	142	33190	8.33	ug/L	97
33) iso-butyl alcohol	10.368	43	8252	83.47	ug/L	90
34) carbon disulfide	6.953	76	54712	7.37	ug/L	98
35) methylene chloride	7.324	84	19977	7.75	ug/L	98
36) methyl acetate	7.094	43	14200	8.74	ug/L	97
37) methyl tert butyl ether	7.685	73	50056	8.16	ug/L	99
38) trans-1,2-dichloroethene	7.742	96	18109	7.79	ug/L	94
39) di-isopropyl ether	8.386	45	77335	9.18	ug/L	89
40) 2-butanone	9.280	72	1724	7.36	ug/L	71
41) 1,1-dichloroethane	8.412	63	34489	7.73	ug/L	97
42) chloroprene	8.532	53	27878	8.30	ug/L	95
43) acrylonitrile	7.701	53	28636	41.57	ug/L	97
44) vinyl acetate	8.396	86	2657	7.46	ug/L	98
45) ethyl tert-butyl ether	8.956	59	64066	9.18	ug/L	99
46) ethyl acetate	9.306	70	1780	7.99	ug/L	86
47) 2,2-dichloropropane	9.312	77	24818	7.27	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121117.D
Acq On : 28 Nov 2011 4:20 pm
Operator : tamikag
Sample : IC5154-10
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 29 17:30:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:15:26 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.312	96	20525	7.69	ug/L		96
49)	propionitrile	9.406	54	22364	83.46	ug/L		88
50)	tert-Butyl Formate	9.808	59	15513	8.93	ug/L	#	97
51)	bromochloromethane	9.699	128	10419	8.40	ug/L		92
52)	tetrahydrofuran	9.746	42	6212	8.54	ug/L		90
53)	chloroform	9.777	83	33753	7.80	ug/L		97
56)	freon 113	6.492	151	13330	8.02	ug/L		90
57)	methacrylonitrile	9.631	41	10330	8.26	ug/L		98
58)	1,1,1-trichloroethane	10.080	97	25043	7.26	ug/L		97
59)	cyclohexane	10.159	84	23679	7.46	ug/L		99
61)	iso-octane	10.645	57	72606	7.89	ug/L		95
64)	epichlorohydrin	12.675	57	7118	41.46	ug/L		91
65)	n-butyl alcohol	11.346	56	24676	426.67	ug/L		96
66)	carbon tetrachloride	10.337	117	23061	7.94	ug/L		98
67)	1,1-dichloropropene	10.300	75	23878	7.65	ug/L		97
68)	hexane	8.082	57	26264	8.06	ug/L		96
69)	benzene	10.640	78	73583	7.85	ug/L		95
70)	tert-amyl methyl ether	10.698	73	56950	9.65	ug/L		100
71)	heptane	10.881	57	14883	7.85	ug/L		96
72)	isopropyl acetate	10.582	43	37369	8.79	ug/L		98
73)	1,2-dichloroethane	10.671	62	23402	8.95	ug/L		98
74)	trichloroethene	11.576	130	19151	7.88	ug/L		97
78)	2-chloroethyl vinyl ether	12.680	63	35974	41.36	ug/L		98
79)	methyl methacrylate	11.974	69	11176	8.03	ug/L		89
80)	1,2-dichloropropane	11.932	63	20538	8.05	ug/L		100
81)	dibromomethane	12.146	93	11280	8.33	ug/L		92
82)	methylcyclohexane	11.853	83	28710	7.86	ug/L		98
83)	bromodichloromethane	12.329	83	25778	8.35	ug/L		98
84)	cis-1,3-dichloropropene	12.952	75	33701	8.27	ug/L		93
86)	4-methyl-2-pentanone	13.098	58	6604	8.49	ug/L	#	64
87)	toluene	13.433	92	46939	7.89	ug/L		99
88)	3-methyl-1-butanol	13.156	55	14383	169.10	ug/L		95
89)	trans-1,3-dichloropropene	13.731	75	29359	8.33	ug/L		98
90)	ethyl methacrylate	13.736	69	21180	8.03	ug/L		94
91)	1,1,2-trichloroethane	14.008	83	14076	8.18	ug/L		97
92)	2-hexanone	14.259	58	5824	7.77	ug/L		85
94)	3,3-Dimethyl-1-butanol	14.510	57	15669	84.45	ug/L	#	98
95)	tetrachloroethene	14.217	164	17127	8.03	ug/L		96
96)	1,3-dichloropropane	14.249	76	27843	8.17	ug/L		93
97)	butyl acetate	14.380	56	12418	8.68	ug/L		96
98)	dibromochloromethane	14.594	129	21234	8.43	ug/L		96
99)	1,2-dibromoethane	14.782	107	17435	8.55	ug/L		99
101)	chlorobenzene	15.400	112	54697	7.91	ug/L		94
102)	1,1,1,2-tetrachloroethane	15.494	131	20200	8.13	ug/L		96
103)	ethylbenzene	15.488	91	88221	7.57	ug/L		97
104)	m,p-xylene	15.635	106	68853	15.11	ug/L		96
105)	o-xylene	16.179	106	34616	7.66	ug/L		97
106)	styrene	16.195	104	57741	7.65	ug/L		98
107)	bromoform	16.524	173	14704	8.51	ug/L		98
109)	isopropylbenzene	16.618	105	86273	7.29	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121117.D
Acq On : 28 Nov 2011 4:20 pm
Operator : tamikag
Sample : IC5154-10
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 29 17:30:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:15:26 2011
Response via : Initial Calibration

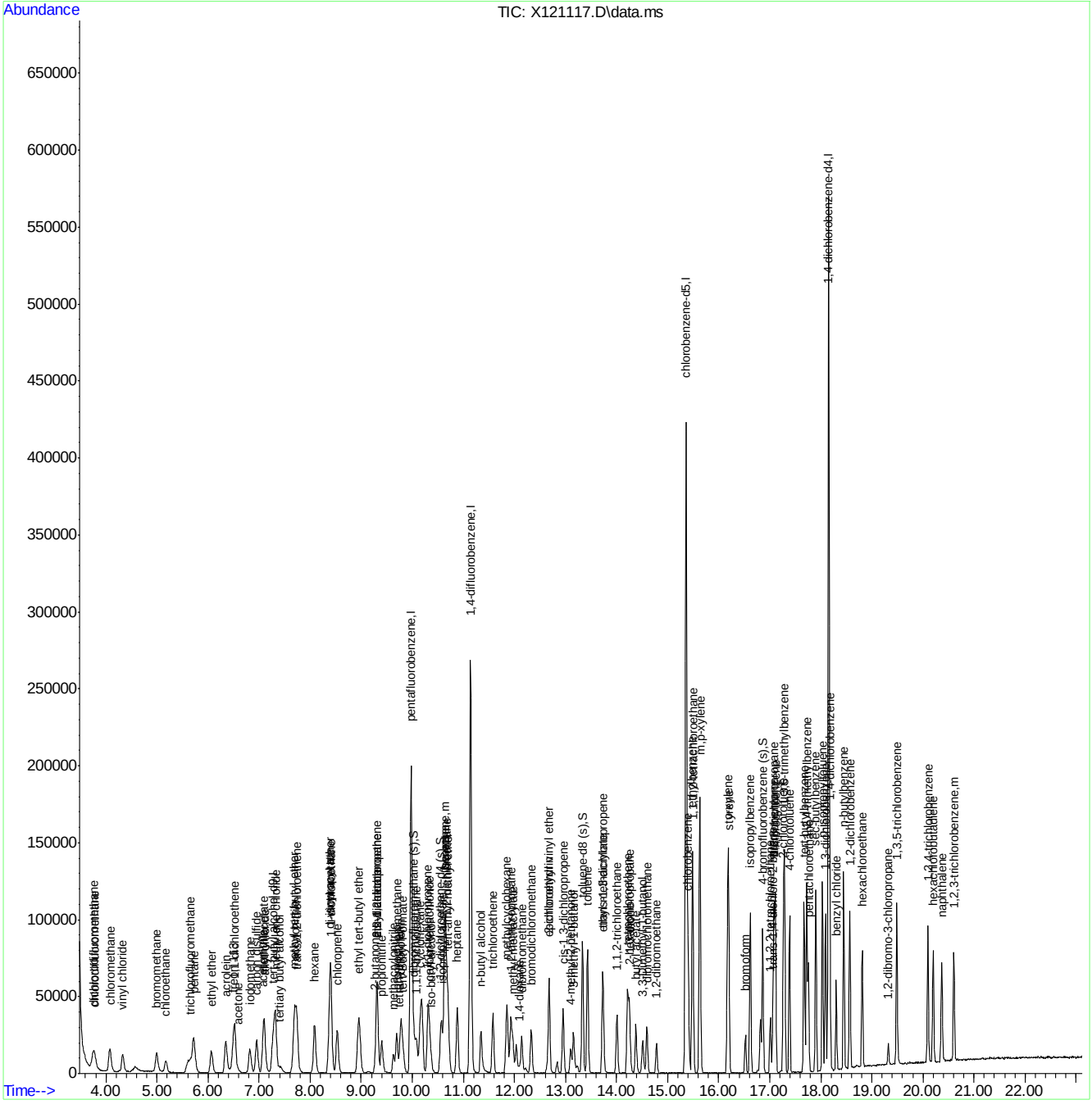
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.078	156	25425	8.08 ug/L	94
112) 1,1,2,2-tetrachloroethane	17.010	83	22166	7.77 ug/L	100
113) trans-1,4-dichloro-2-b...	17.058	53	5397	7.79 ug/L	88
114) 1,2,3-trichloropropane	17.084	110	5474	8.07 ug/L #	78
115) n-propylbenzene	17.110	91	101408	7.10 ug/L	99
117) 2-chlorotoluene	17.267	126	23140	7.84 ug/L #	85
118) 4-chlorotoluene	17.387	91	64081	7.25 ug/L	98
119) 1,3,5-trimethylbenzene	17.288	105	71660	7.31 ug/L	99
120) tert-butylbenzene	17.669	119	62841	7.31 ug/L	99
121) pentachloroethane	17.758	167	16310	8.33 ug/L	97
122) 1,2,4-trimethylbenzene	17.722	105	73063	7.20 ug/L	98
124) sec-butylbenzene	17.900	105	92900	7.15 ug/L	99
125) 1,3-dichlorobenzene	18.093	146	46464	7.77 ug/L	97
126) p-isopropyltoluene	18.030	119	78515	7.28 ug/L	98
127) 1,4-dichlorobenzene	18.177	146	47013	7.72 ug/L	100
128) 1,2-dichlorobenzene	18.569	146	44492	7.82 ug/L	99
129) benzyl chloride	18.302	91	42851	8.36 ug/L	100
131) n-butylbenzene	18.449	92	40375	6.90 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.322	75	3629	7.22 ug/L	95
134) 1,3,5-trichlorobenzene	19.490	180	39478	8.00 ug/L	99
135) hexachlorobutadiene	20.201	225	19428	7.73 ug/L	96
136) naphthalene	20.368	128	55694	7.14 ug/L	99
137) 1,2,4-trichlorobenzene	20.096	180	32207	7.63 ug/L	100
138) 1,2,3-trichlorobenzene	20.604	180	27562	7.49 ug/L	100
139) hexachloroethane	18.810	201	15576	8.22 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121117.D
Acq On : 28 Nov 2011 4:20 pm
Operator : tamikag
Sample : IC5154-10
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 29 17:30:11 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:15:26 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121118.D
Acq On : 28 Nov 2011 4:49 pm
Operator : tamikag
Sample : IC5154-20
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 29 17:30:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	69484	500.00	ug/L	-0.03
5) pentafluorobenzene	9.981	168	227265	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.142	114	320143	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	297942	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	152017	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	96493	42.53	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 85.06%			
55) 1,2-dichloroethane-d4 (s)	10.556	65	95445	42.41	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 84.82%			
85) toluene-d8 (s)	13.334	98	353834	44.25	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 88.50%			
110) 4-bromofluorobenzene (s)	16.864	95	136398	42.12	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 84.24%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.418	59	19028	85.51	ug/L	97
4) 1,4-dioxane	12.089	88	9081	565.88	ug/L #	99
11) chlorodifluoromethane	3.778	51	36348	15.37	ug/L	90
12) dichlorodifluoromethane	3.767	85	53160	20.76	ug/L	95
15) chloromethane	4.081	50	61774	16.58	ug/L	98
16) vinyl chloride	4.338	62	50289	16.38	ug/L	98
18) bromomethane	5.002	94	31339	15.90	ug/L	98
19) chloroethane	5.185	64	26414	16.48	ug/L	100
21) trichlorofluoromethane	5.666	101	59523	18.57	ug/L	97
22) pentane	5.724	43	69682	15.40	ug/L	99
23) ethyl ether	6.069	74	19889	15.75	ug/L	97
27) acrolein	6.351	56	63997	159.65	ug/L #	94
28) 1,1-dichloroethene	6.524	96	30675	14.79	ug/L	99
29) acetone	6.592	58	2232	12.78	ug/L #	82
30) allyl chloride	7.104	76	21268	14.83	ug/L #	85
31) acetonitrile	7.078	40	29687	178.39	ug/L #	82
32) iodomethane	6.827	142	66166	16.65	ug/L	99
33) iso-butyl alcohol	10.373	43	16797	170.35	ug/L	98
34) carbon disulfide	6.953	76	113809	15.38	ug/L	98
35) methylene chloride	7.324	84	39070	15.20	ug/L	93
36) methyl acetate	7.094	43	28143	17.37	ug/L	97
37) methyl tert butyl ether	7.695	73	97265	15.89	ug/L	100
38) trans-1,2-dichloroethene	7.748	96	35388	15.25	ug/L	99
39) di-isopropyl ether	8.391	45	152239	18.12	ug/L	98
40) 2-butanone	9.280	72	3289	14.09	ug/L	60
41) 1,1-dichloroethane	8.412	63	68970	15.51	ug/L	96
42) chloroprene	8.532	53	58939	17.59	ug/L	94
43) acrylonitrile	7.701	53	54496	79.32	ug/L	95
44) vinyl acetate	8.401	86	5529	15.57	ug/L	73
45) ethyl tert-butyl ether	8.961	59	125955	18.09	ug/L	99
46) ethyl acetate	9.312	70	3557	16.01	ug/L	81
47) 2,2-dichloropropane	9.306	77	50595	14.86	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121118.D
Acq On : 28 Nov 2011 4:49 pm
Operator : tamikag
Sample : IC5154-20
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 29 17:30:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.312	96	41002	15.41	ug/L		95
49)	propionitrile	9.406	54	42489	158.98	ug/L		100
50)	tert-Butyl Formate	9.819	59	30617	17.68	ug/L	#	99
51)	bromochloromethane	9.699	128	19946	16.13	ug/L		100
52)	tetrahydrofuran	9.746	42	11375	15.68	ug/L		94
53)	chloroform	9.777	83	66021	15.30	ug/L		97
56)	freon 113	6.513	151	29331	17.70	ug/L		97
57)	methacrylonitrile	9.631	41	19369	15.53	ug/L		97
58)	1,1,1-trichloroethane	10.080	97	51918	15.10	ug/L		98
59)	cyclohexane	10.164	84	48321	15.26	ug/L		87
61)	iso-octane	10.645	57	152930	16.67	ug/L		99
64)	epichlorohydrin	12.680	57	13830	81.26	ug/L		94
65)	n-butyl alcohol	11.346	56	51094	891.29	ug/L		96
66)	carbon tetrachloride	10.331	117	48839	16.97	ug/L		98
67)	1,1-dichloropropene	10.305	75	49313	15.95	ug/L		97
68)	hexane	8.088	57	55506	17.19	ug/L		96
69)	benzene	10.640	78	145013	15.60	ug/L		99
70)	tert-amyl methyl ether	10.698	73	110798	18.94	ug/L		100
71)	heptane	10.881	57	32465	17.28	ug/L		98
72)	isopropyl acetate	10.582	43	70397	16.70	ug/L		96
73)	1,2-dichloroethane	10.671	62	44136	17.03	ug/L		99
74)	trichloroethene	11.581	130	38687	16.06	ug/L		97
78)	2-chloroethyl vinyl ether	12.680	63	70587	81.88	ug/L		98
79)	methyl methacrylate	11.974	69	21242	15.39	ug/L		98
80)	1,2-dichloropropane	11.927	63	40838	16.16	ug/L		97
81)	dibromomethane	12.146	93	21762	16.21	ug/L		94
82)	methylcyclohexane	11.859	83	61670	17.04	ug/L		98
83)	bromodichloromethane	12.335	83	50133	16.38	ug/L		98
84)	cis-1,3-dichloropropene	12.952	75	64620	15.99	ug/L		95
86)	4-methyl-2-pentanone	13.098	58	12608	16.36	ug/L	#	61
87)	toluene	13.433	92	92437	15.68	ug/L		98
88)	3-methyl-1-butanol	13.156	55	30223	358.48	ug/L		95
89)	trans-1,3-dichloropropene	13.726	75	56286	16.11	ug/L		98
90)	ethyl methacrylate	13.742	69	39987	15.30	ug/L		96
91)	1,1,2-trichloroethane	14.008	83	27047	15.86	ug/L		97
92)	2-hexanone	14.265	58	11285	15.18	ug/L		94
94)	3,3-Dimethyl-1-butanol	14.510	57	31914	175.26	ug/L		98
95)	tetrachloroethene	14.217	164	34837	16.63	ug/L		98
96)	1,3-dichloropropane	14.249	76	52809	15.79	ug/L		93
97)	butyl acetate	14.380	56	23888	17.01	ug/L		91
98)	dibromochloromethane	14.594	129	41119	16.64	ug/L		99
99)	1,2-dibromoethane	14.782	107	32291	16.13	ug/L		97
101)	chlorobenzene	15.405	112	107600	15.86	ug/L		97
102)	1,1,1,2-tetrachloroethane	15.494	131	40348	16.56	ug/L		98
103)	ethylbenzene	15.488	91	174031	15.22	ug/L		99
104)	m,p-xylene	15.635	106	136196	30.46	ug/L		99
105)	o-xylene	16.174	106	68239	15.38	ug/L		97
106)	styrene	16.195	104	114619	15.48	ug/L		99
107)	bromoform	16.524	173	28372	16.73	ug/L		99
109)	isopropylbenzene	16.618	105	172938	15.10	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121118.D
Acq On : 28 Nov 2011 4:49 pm
Operator : tamikag
Sample : IC5154-20
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 29 17:30:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

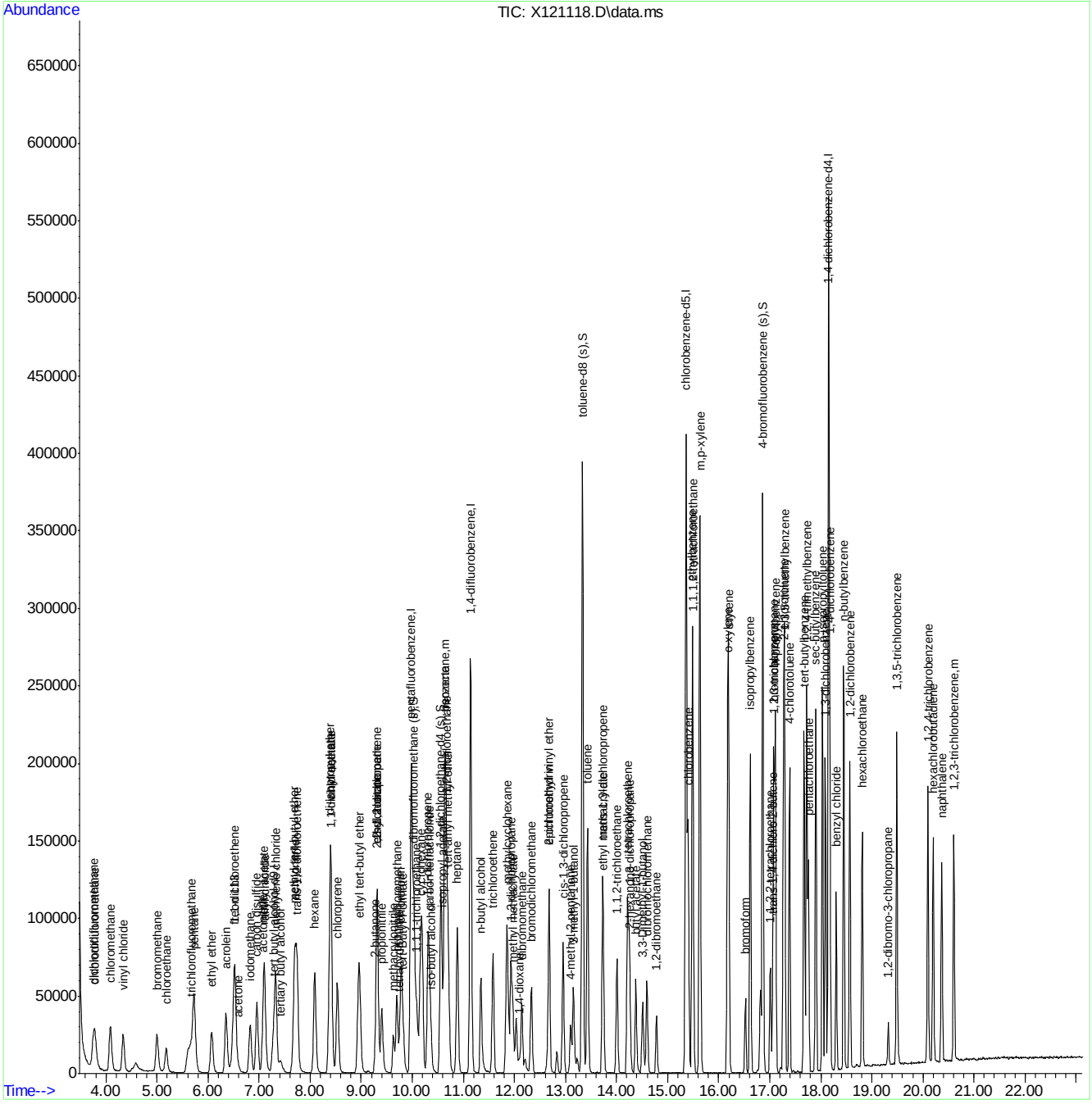
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.078	156	49163	16.14 ug/L	95
112) 1,1,2,2-tetrachloroethane	17.010	83	40825	14.78 ug/L	98
113) trans-1,4-dichloro-2-b...	17.057	53	9966	14.86 ug/L	91
114) 1,2,3-trichloropropane	17.089	110	10219	15.56 ug/L #	70
115) n-propylbenzene	17.110	91	202152	14.63 ug/L	100
117) 2-chlorotoluene	17.272	126	44327	15.51 ug/L	96
118) 4-chlorotoluene	17.387	91	126507	14.78 ug/L	98
119) 1,3,5-trimethylbenzene	17.293	105	142368	14.99 ug/L	99
120) tert-butylbenzene	17.669	119	127354	15.31 ug/L	97
121) pentachloroethane	17.758	167	31766	16.76 ug/L	98
122) 1,2,4-trimethylbenzene	17.722	105	145067	14.78 ug/L	100
124) sec-butylbenzene	17.900	105	187279	14.89 ug/L	99
125) 1,3-dichlorobenzene	18.093	146	90999	15.73 ug/L	97
126) p-isopropyltoluene	18.030	119	156091	14.96 ug/L	100
127) 1,4-dichlorobenzene	18.177	146	91168	15.46 ug/L	98
128) 1,2-dichlorobenzene	18.569	146	85470	15.52 ug/L	98
129) benzyl chloride	18.302	91	84237	16.97 ug/L	99
131) n-butylbenzene	18.449	92	82932	14.64 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.322	75	6897	14.18 ug/L	97
134) 1,3,5-trichlorobenzene	19.490	180	79401	16.62 ug/L	99
135) hexachlorobutadiene	20.201	225	38267	15.72 ug/L	100
136) naphthalene	20.368	128	112137	14.86 ug/L	99
137) 1,2,4-trichlorobenzene	20.096	180	64930	15.89 ug/L	99
138) 1,2,3-trichlorobenzene	20.604	180	56020	15.72 ug/L	99
139) hexachloroethane	18.810	201	31502	17.18 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121118.D
Acq On : 28 Nov 2011 4:49 pm
Operator : tamikag
Sample : IC5154-20
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 29 17:30:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121119.D
Acq On : 28 Nov 2011 5:18 pm
Operator : tamikag
Sample : ICC5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 29 17:29:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	69358	500.00	ug/L	-0.03
5) pentafluorobenzene	9.976	168	223395	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.142	114	321795	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	304307	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	161266	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	97344	43.64	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 87.28%			
55) 1,2-dichloroethane-d4 (s)	10.551	65	95359	43.11	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 86.22%			
85) toluene-d8 (s)	13.334	98	358725	44.63	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 89.26%			
110) 4-bromofluorobenzene (s)	16.864	95	142127	41.37	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 82.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.418	59	45496	204.81	ug/L	97
4) 1,4-dioxane	12.094	88	21566	1346.32	ug/L #	96
11) chlorodifluoromethane	3.778	51	93269	40.13	ug/L	96
12) dichlorodifluoromethane	3.757	85	142141	56.47	ug/L	97
15) chloromethane	4.092	50	160502	43.82	ug/L	100
16) vinyl chloride	4.343	62	133011	44.07	ug/L	98
18) bromomethane	5.002	94	76516	39.49	ug/L	98
19) chloroethane	5.180	64	65751	41.73	ug/L	95
21) trichlorofluoromethane	5.661	101	154114	48.92	ug/L	99
22) pentane	5.724	43	175654	39.50	ug/L	98
23) ethyl ether	6.074	74	52634	42.39	ug/L	96
27) acrolein	6.351	56	164975	418.68	ug/L #	95
28) 1,1-dichloroethene	6.524	96	86055	42.21	ug/L	98
29) acetone	6.581	58	6268	36.51	ug/L	95
30) allyl chloride	7.104	76	58807	41.71	ug/L	88
31) acetonitrile	7.078	40	74636	456.26	ug/L	99
32) iodomethane	6.822	142	179821	46.03	ug/L	99
33) iso-butyl alcohol	10.363	43	39313	405.62	ug/L	95
34) carbon disulfide	6.958	76	315243	43.34	ug/L	98
35) methylene chloride	7.324	84	100502	39.79	ug/L	95
36) methyl acetate	7.094	43	64471	40.47	ug/L	99
37) methyl tert butyl ether	7.695	73	252980	42.04	ug/L	100
38) trans-1,2-dichloroethene	7.742	96	96855	42.47	ug/L	96
39) di-isopropyl ether	8.391	45	366577	44.40	ug/L	94
40) 2-butanone	9.275	72	8859	38.60	ug/L	64
41) 1,1-dichloroethane	8.412	63	181901	41.61	ug/L	100
42) chloroprene	8.532	53	146205	44.39	ug/L	96
43) acrylonitrile	7.695	53	142413	210.88	ug/L	97
44) vinyl acetate	8.396	86	13438	38.50	ug/L	60
45) ethyl tert-butyl ether	8.961	59	306157	44.74	ug/L	99
46) ethyl acetate	9.306	70	8680	39.75	ug/L	56
47) 2,2-dichloropropane	9.306	77	138414	41.37	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121119.D
Acq On : 28 Nov 2011 5:18 pm
Operator : tamikag
Sample : ICC5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 29 17:29:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.312	96	107272	41.02	ug/L		94
49) propionitrile	9.400	54	108003	411.11	ug/L		100
50) tert-Butyl Formate	9.819	59	73257	43.03	ug/L	#	98
51) bromochloromethane	9.699	128	52215	42.95	ug/L		96
52) tetrahydrofuran	9.746	42	29354	41.15	ug/L		95
53) chloroform	9.777	83	174883	41.23	ug/L		97
56) freon 113	6.508	151	73408	45.07	ug/L		97
57) methacrylonitrile	9.625	41	50944	41.55	ug/L		98
58) 1,1,1-trichloroethane	10.080	97	144979	42.89	ug/L		97
59) cyclohexane	10.164	84	139771	44.92	ug/L		86
61) iso-octane	10.650	57	382928	42.47	ug/L		98
64) epichlorohydrin	12.675	57	34157	199.66	ug/L		94
65) n-butyl alcohol	11.341	56	126317	2192.17	ug/L		96
66) carbon tetrachloride	10.331	117	135277	46.76	ug/L		99
67) 1,1-dichloropropene	10.305	75	135001	43.43	ug/L		97
68) hexane	8.088	57	139564	43.00	ug/L		96
69) benzene	10.640	78	386593	41.38	ug/L		98
70) tert-amyl methyl ether	10.698	73	263547	44.81	ug/L		100
71) heptane	10.881	57	82613	43.74	ug/L		98
72) isopropyl acetate	10.577	43	170380	40.20	ug/L		98
73) 1,2-dichloroethane	10.671	62	115351	44.29	ug/L		99
74) trichloroethene	11.576	130	107386	44.35	ug/L		97
77) 2-nitropropane	12.643	46	1412	50.84	ug/L	#	1
78) 2-chloroethyl vinyl ether	12.675	63	174271	201.11	ug/L		100
79) methyl methacrylate	11.969	69	55296	39.85	ug/L		86
80) 1,2-dichloropropane	11.927	63	107828	42.44	ug/L		99
81) dibromomethane	12.141	93	56912	42.17	ug/L		96
82) methylcyclohexane	11.859	83	158320	43.52	ug/L		98
83) bromodichloromethane	12.329	83	134780	43.82	ug/L		99
84) cis-1,3-dichloropropene	12.952	75	171855	42.32	ug/L		95
86) 4-methyl-2-pentanone	13.103	58	32904	42.48	ug/L	#	64
87) toluene	13.433	92	248636	41.96	ug/L		99
88) 3-methyl-1-butanol	13.151	55	74687	881.32	ug/L		96
89) trans-1,3-dichloropropene	13.726	75	149746	42.63	ug/L		99
90) ethyl methacrylate	13.736	69	108280	41.21	ug/L		94
91) 1,1,2-trichloroethane	14.008	83	70707	41.24	ug/L		98
92) 2-hexanone	14.259	58	30446	40.75	ug/L		95
94) 3,3-Dimethyl-1-butanol	14.505	57	80835	434.62	ug/L		99
95) tetrachloroethene	14.212	164	97000	45.35	ug/L		99
96) 1,3-dichloropropane	14.249	76	137322	40.19	ug/L		95
97) butyl acetate	14.374	56	58554	40.83	ug/L		89
98) dibromochloromethane	14.594	129	110862	43.92	ug/L		99
99) 1,2-dibromoethane	14.782	107	85846	41.99	ug/L		100
101) chlorobenzene	15.400	112	288430	41.63	ug/L		98
102) 1,1,1,2-tetrachloroethane	15.488	131	106269	42.69	ug/L		97
103) ethylbenzene	15.488	91	469003	40.16	ug/L		99
104) m,p-xylene	15.635	106	368246	80.64	ug/L		97
105) o-xylene	16.174	106	186767	41.22	ug/L		99
106) styrene	16.195	104	309719	40.95	ug/L		98
107) bromoform	16.524	173	77799	44.92	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121119.D
Acq On : 28 Nov 2011 5:18 pm
Operator : tamikag
Sample : ICC5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 29 17:29:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

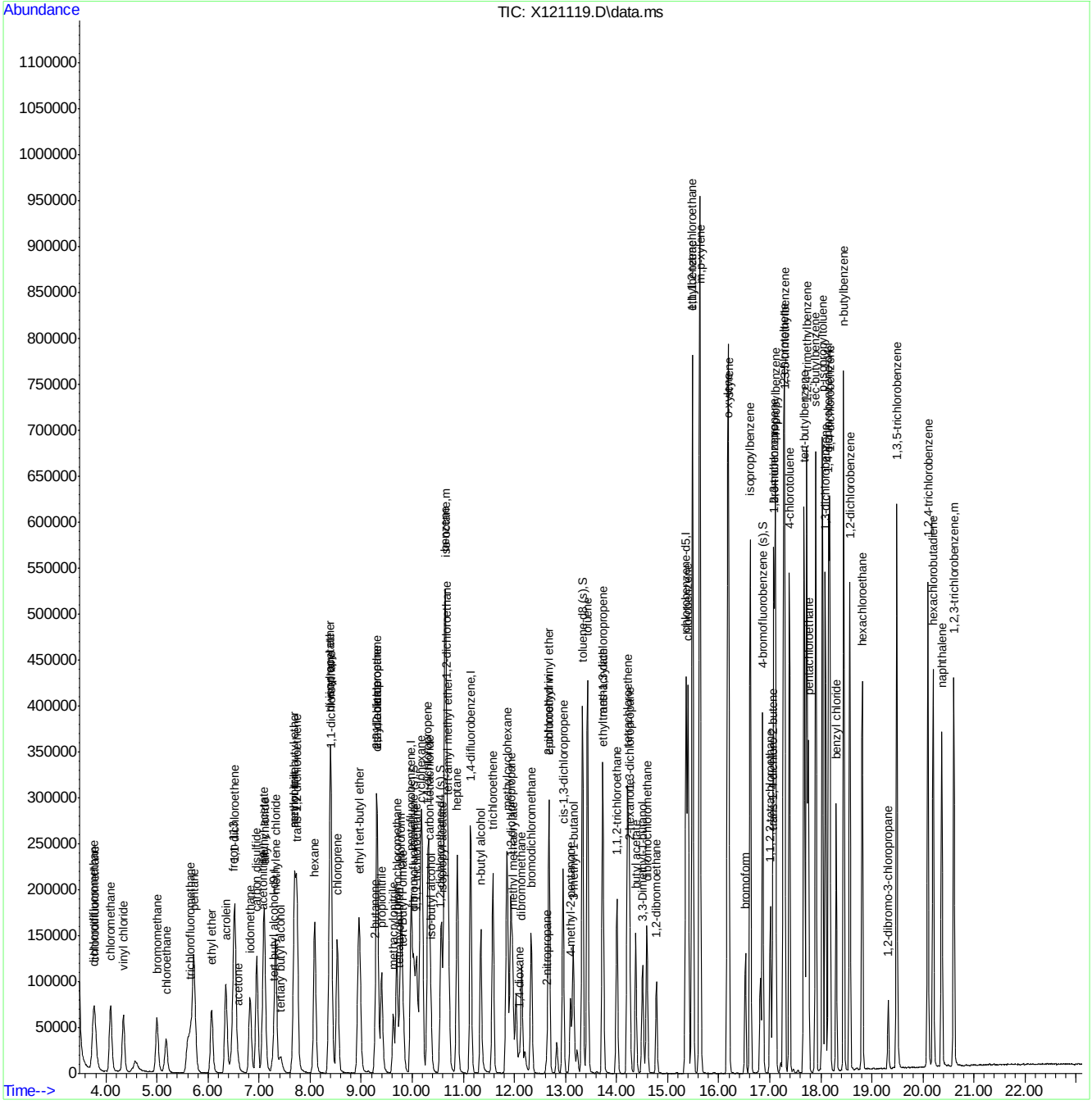
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.618	105	472422	38.88 ug/L	100
111) bromobenzene	17.078	156	132593	41.04 ug/L	95
112) 1,1,2,2-tetrachloroethane	17.010	83	108811	37.14 ug/L	98
113) trans-1,4-dichloro-2-b...	17.058	53	27009	37.97 ug/L	97
114) 1,2,3-trichloropropane	17.084	110	26325	37.80 ug/L	98
115) n-propylbenzene	17.110	91	547655	37.35 ug/L	99
117) 2-chlorotoluene	17.272	126	121813	40.19 ug/L	94
118) 4-chlorotoluene	17.382	91	344072	37.90 ug/L	99
119) 1,3,5-trimethylbenzene	17.293	105	387922	38.51 ug/L	99
120) tert-butylbenzene	17.669	119	351086	39.79 ug/L	99
121) pentachloroethane	17.758	167	86341	42.94 ug/L	99
122) 1,2,4-trimethylbenzene	17.722	105	399068	38.32 ug/L	100
124) sec-butylbenzene	17.900	105	523128	39.22 ug/L	99
125) 1,3-dichlorobenzene	18.093	146	247232	40.28 ug/L	97
126) p-isopropyltoluene	18.030	119	440735	39.82 ug/L	99
127) 1,4-dichlorobenzene	18.177	146	247555	39.57 ug/L	99
128) 1,2-dichlorobenzene	18.569	146	233855	40.02 ug/L	98
129) benzyl chloride	18.302	91	209814	39.85 ug/L	99
131) n-butylbenzene	18.449	92	240034	39.94 ug/L	98
133) 1,2-dibromo-3-chloropr...	19.317	75	18589	36.04 ug/L	99
134) 1,3,5-trichlorobenzene	19.484	180	224494	44.28 ug/L	99
135) hexachlorobutadiene	20.201	225	113298	43.88 ug/L	98
136) naphthalene	20.368	128	320749	40.07 ug/L	100
137) 1,2,4-trichlorobenzene	20.096	180	189890	43.82 ug/L	99
138) 1,2,3-trichlorobenzene	20.604	180	164034	43.39 ug/L	99
139) hexachloroethane	18.815	201	91452	47.01 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121119.D
Acq On : 28 Nov 2011 5:18 pm
Operator : tamikag
Sample : ICC5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 29 17:29:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



ACCUTEST LABORATORIES JA93968

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121120.D
Acq On : 28 Nov 2011 5:47 pm
Operator : tamikag
Sample : IC5154-100
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 29 09:48:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.288	65	72776	500.00	ug/L	-0.03
5) pentafluorobenzene	9.976	168	227913	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.142	114	326103	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.358	117	308981	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.151	152	164214	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.023	113	191748	84.27	ug/L	-0.03
Spiked Amount 50.000 Range 67 - 131 Recovery = 168.54%#						
55) 1,2-dichloroethane-d4 (s)	10.551	65	190969	84.62	ug/L	-0.03
Spiked Amount 50.000 Range 66 - 130 Recovery = 169.24%#						
85) toluene-d8 (s)	13.334	98	681742	83.69	ug/L	-0.02
Spiked Amount 50.000 Range 76 - 125 Recovery = 167.38%#						
110) 4-bromofluorobenzene (s)	16.864	95	270272	77.25	ug/L	-0.02
Spiked Amount 50.000 Range 53 - 142 Recovery = 154.50%#						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.418	59	95928	411.57	ug/L	91
4) 1,4-dioxane	12.094	88	44365	2639.53	ug/L #	98
11) chlorodifluoromethane	3.768	51	175738	74.12	ug/L	95
12) dichlorodifluoromethane	3.752	85	268083	104.39	ug/L	96
15) chloromethane	4.087	50	309440	82.82	ug/L	98
16) vinyl chloride	4.343	62	252748	82.09	ug/L	99
18) bromomethane	4.991	94	141434	71.54	ug/L	98
19) chloroethane	5.169	64	128175	79.73	ug/L	97
21) trichlorofluoromethane	5.645	101	291734	90.77	ug/L	98
22) pentane	5.713	43	328402	72.38	ug/L	98
23) ethyl ether	6.064	74	103754	81.90	ug/L	91
28) 1,1-dichloroethene	6.519	96	160334	77.08	ug/L	97
29) acetone	6.576	58	12712	72.59	ug/L	96
30) allyl chloride	7.099	76	105501	73.35	ug/L	89
31) acetonitrile	7.068	40	144316	864.74	ug/L #	77
32) iodomethane	6.817	142	341920	85.79	ug/L	99
33) iso-butyl alcohol	10.358	43	82474	834.07	ug/L	98
34) carbon disulfide	6.948	76	584529	78.77	ug/L	98
35) methylene chloride	7.319	84	192943	74.87	ug/L	93
36) methyl acetate	7.084	43	131517	80.92	ug/L	99
37) methyl tert butyl ether	7.690	73	500882	81.59	ug/L	99
38) trans-1,2-dichloroethene	7.737	96	178730	76.83	ug/L	99
39) di-isopropyl ether	8.386	45	706334	83.85	ug/L	93
40) 2-butanone	9.275	72	18467	78.87	ug/L	92
41) 1,1-dichloroethane	8.407	63	339576	76.13	ug/L	99
42) chloroprene	8.532	53	275573	82.01	ug/L	97
43) acrylonitrile	7.690	53	287467	417.23	ug/L	97
44) vinyl acetate	8.402	86	28119	78.97	ug/L	97
45) ethyl tert-butyl ether	8.956	59	598840	85.77	ug/L	99
46) ethyl acetate	9.296	70	17726	79.56	ug/L	94
47) 2,2-dichloropropane	9.301	77	255984	74.99	ug/L	97
48) cis-1,2-dichloroethene	9.306	96	204531	76.66	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121120.D
Acq On : 28 Nov 2011 5:47 pm
Operator : tamikag
Sample : IC5154-100
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 29 09:48:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	propionitrile	9.401	54	222880	831.57	ug/L		93
50)	tert-Butyl Formate	9.809	59	148848	85.70	ug/L	#	98
51)	bromochloromethane	9.693	128	102864	82.94	ug/L		98
52)	tetrahydrofuran	9.741	42	59484	81.74	ug/L		96
53)	chloroform	9.777	83	330923	76.48	ug/L		99
56)	freon 113	6.493	151	139983	84.25	ug/L		96
57)	methacrylonitrile	9.625	41	103934	83.09	ug/L		99
58)	1,1,1-trichloroethane	10.080	97	271886	78.84	ug/L		98
59)	cyclohexane	10.164	84	256511	80.80	ug/L		81
61)	iso-octane	10.651	57	712907	77.49	ug/L		98
64)	epichlorohydrin	12.675	57	70348	405.78	ug/L		91
65)	n-butyl alcohol	11.341	56	266763	4568.39	ug/L		96
66)	carbon tetrachloride	10.332	117	251307	85.71	ug/L		97
67)	1,1-dichloropropene	10.305	75	254993	80.95	ug/L		97
68)	hexane	8.088	57	265207	80.63	ug/L		95
69)	benzene	10.635	78	723803	76.45	ug/L		99
70)	tert-amyl methyl ether	10.698	73	520166	87.28	ug/L		99
71)	heptane	10.881	57	161601	84.42	ug/L		99
72)	isopropyl acetate	10.577	43	349131	81.29	ug/L		98
73)	1,2-dichloroethane	10.666	62	223176	84.56	ug/L		99
74)	trichloroethene	11.576	130	205360	83.69	ug/L		96
77)	2-nitropropane	12.638	46	2815	100.03	ug/L	#	1
78)	2-chloroethyl vinyl ether	12.675	63	351018	399.73	ug/L		99
79)	methyl methacrylate	11.969	69	113168	80.49	ug/L		90
80)	1,2-dichloropropane	11.927	63	209611	81.42	ug/L		99
81)	dibromomethane	12.141	93	114205	83.51	ug/L		96
82)	methylcyclohexane	11.854	83	297377	80.67	ug/L		99
83)	bromodichloromethane	12.329	83	264218	84.77	ug/L		98
84)	cis-1,3-dichloropropene	12.952	75	335418	81.50	ug/L		96
86)	4-methyl-2-pentanone	13.098	58	68305	87.01	ug/L	#	61
87)	toluene	13.433	92	468355	78.00	ug/L		98
88)	3-methyl-1-butanol	13.151	55	158703	1847.98	ug/L		96
89)	trans-1,3-dichloropropene	13.721	75	295850	83.11	ug/L		99
90)	ethyl methacrylate	13.736	69	219086	82.29	ug/L		92
91)	1,1,2-trichloroethane	14.008	83	141307	81.33	ug/L		99
92)	2-hexanone	14.259	58	63844	84.32	ug/L		92
94)	3,3-Dimethyl-1-butanol	14.510	57	174010	921.43	ug/L		99
95)	tetrachloroethene	14.212	164	182854	84.19	ug/L		97
96)	1,3-dichloropropane	14.249	76	267640	77.15	ug/L		94
97)	butyl acetate	14.374	56	120088	82.47	ug/L		89
98)	dibromochloromethane	14.594	129	218793	85.38	ug/L		98
99)	1,2-dibromoethane	14.782	107	171924	82.82	ug/L		98
101)	chlorobenzene	15.400	112	550165	78.20	ug/L		100
102)	1,1,1,2-tetrachloroethane	15.494	131	204222	80.80	ug/L		98
103)	ethylbenzene	15.489	91	873404	73.65	ug/L		99
104)	m,p-xylene	15.630	106	688406	148.47	ug/L		97
105)	o-xylene	16.174	106	356239	77.43	ug/L		98
106)	styrene	16.195	104	590641	76.92	ug/L		98
107)	bromoform	16.524	173	159087	90.46	ug/L		98
109)	isopropylbenzene	16.618	105	876115	70.80	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121120.D
Acq On : 28 Nov 2011 5:47 pm
Operator : tamikag
Sample : IC5154-100
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 29 09:48:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

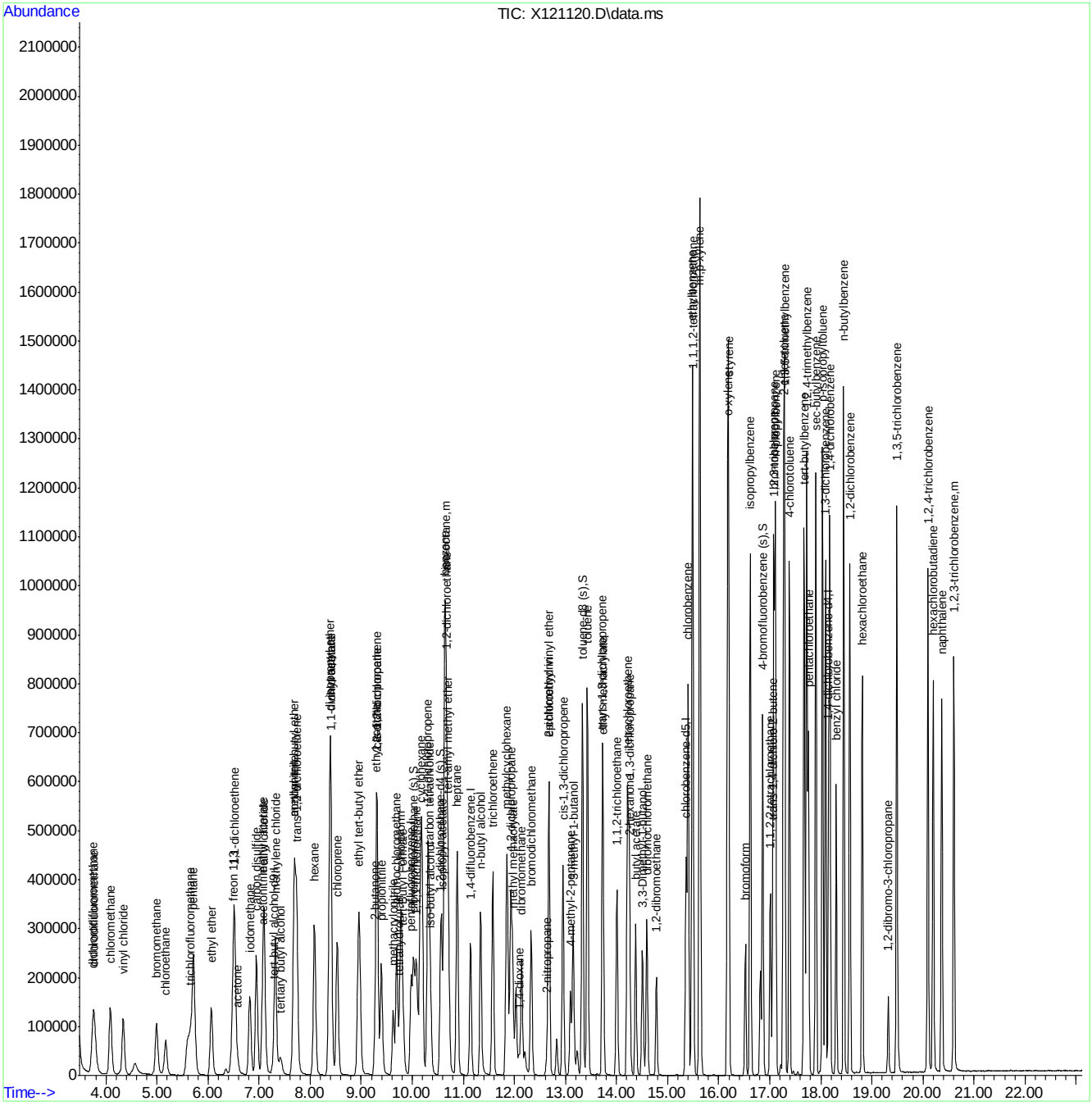
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.079	156	251444	76.42 ug/L	96
112) 1,1,2,2-tetrachloroethane	17.011	83	219697	73.65 ug/L	98
113) trans-1,4-dichloro-2-b...	17.058	53	55749	76.97 ug/L	92
114) 1,2,3-trichloropropane	17.084	110	53239	75.06 ug/L	94
115) n-propylbenzene	17.110	91	1010484	67.68 ug/L	99
117) 2-chlorotoluene	17.272	126	230770	74.77 ug/L	91
118) 4-chlorotoluene	17.387	91	656016	70.96 ug/L	98
119) 1,3,5-trimethylbenzene	17.293	105	726755	70.85 ug/L	98
120) tert-butylbenzene	17.675	119	655841	72.99 ug/L	99
121) pentachloroethane	17.758	167	166200	81.17 ug/L	99
122) 1,2,4-trimethylbenzene	17.722	105	745174	70.27 ug/L	99
124) sec-butylbenzene	17.905	105	974630	71.76 ug/L	98
125) 1,3-dichlorobenzene	18.093	146	473195	75.71 ug/L	98
126) p-isopropyltoluene	18.030	119	822920	73.02 ug/L	99
127) 1,4-dichlorobenzene	18.177	146	480813	75.48 ug/L	99
128) 1,2-dichlorobenzene	18.569	146	452163	75.99 ug/L	98
129) benzyl chloride	18.302	91	425249	79.32 ug/L	99
131) n-butylbenzene	18.449	92	454040	74.20 ug/L	97
133) 1,2-dibromo-3-chloropr...	19.322	75	39070	74.39 ug/L	90
134) 1,3,5-trichlorobenzene	19.490	180	426890	82.69 ug/L	98
135) hexachlorobutadiene	20.201	225	213878	81.34 ug/L	100
136) naphthalene	20.368	128	657638	80.69 ug/L	100
137) 1,2,4-trichlorobenzene	20.096	180	371690	84.23 ug/L	100
138) 1,2,3-trichlorobenzene	20.604	180	328912	85.45 ug/L	100
139) hexachloroethane	18.815	201	174265	87.97 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121120.D
Acq On : 28 Nov 2011 5:47 pm
Operator : tamikag
Sample : IC5154-100
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 29 09:48:40 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



MX5154.M Tue Nov 29 17:30:23 2011 ACCNJ Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121121.D
Acq On : 28 Nov 2011 6:17 pm
Operator : tamikag
Sample : IC5154-200
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 09:48:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.298	65	79791	500.00	ug/L	-0.02
5) pentafluorobenzene	9.981	168	235841	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.142	114	339603	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.363	117	318910	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.156	152	167513	50.00	ug/L	-0.01
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	337897	143.50	ug/L	-0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 287.00%#			
55) 1,2-dichloroethane-d4 (s)	10.556	65	339330	145.31	ug/L	-0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 290.62%#			
85) toluene-d8 (s)	13.334	98	1158184	136.53	ug/L	-0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 273.06%#			
110) 4-bromofluorobenzene (s)	16.864	95	466324	130.67	ug/L	-0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 261.34%#			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.423	59	201248	787.52	ug/L	70
4) 1,4-dioxane	12.089	88	91775	4980.17	ug/L #	97
11) chlorodifluoromethane	3.773	51	327809	133.60	ug/L	95
12) dichlorodifluoromethane	3.752	85	508906	191.51	ug/L	99
15) chloromethane	4.102	50	591091	152.88	ug/L	99
16) vinyl chloride	4.353	62	481301	151.07	ug/L	98
18) bromomethane	4.991	94	247668	121.06	ug/L	98
19) chloroethane	5.169	64	230835	138.76	ug/L	96
21) trichlorofluoromethane	5.656	101	554690	166.78	ug/L	99
22) pentane	5.718	43	604058	128.66	ug/L	99
23) ethyl ether	6.069	74	217574	165.98	ug/L	92
28) 1,1-dichloroethene	6.519	96	320385	148.84	ug/L	99
29) acetone	6.587	58	28503	157.28	ug/L	96
30) allyl chloride	7.104	76	218575	146.86	ug/L	91
31) acetonitrile	7.078	40	294949	1707.93	ug/L	98
32) iodomethane	6.822	142	696720	168.94	ug/L	100
33) iso-butyl alcohol	10.363	43	174267	1703.14	ug/L	97
34) carbon disulfide	6.953	76	1169449	152.29	ug/L	98
35) methylene chloride	7.319	84	399836	149.93	ug/L	94
36) methyl acetate	7.089	43	272603	162.09	ug/L	99
37) methyl tert butyl ether	7.701	73	1040450	163.78	ug/L	99
38) trans-1,2-dichloroethene	7.742	96	361063	149.98	ug/L	98
39) di-isopropyl ether	8.391	45	1356275	155.60	ug/L	88
40) 2-butanone	9.275	72	39867	164.55	ug/L	76
41) 1,1-dichloroethane	8.407	63	682771	147.93	ug/L	99
42) chloroprene	8.532	53	523676	150.60	ug/L	97
43) acrylonitrile	7.695	53	604672	848.12	ug/L	99
44) vinyl acetate	8.396	86	55434	150.45	ug/L	82
45) ethyl tert-butyl ether	8.956	59	1172893	162.35	ug/L	100
46) ethyl acetate	9.301	70	36042	156.32	ug/L	87
47) 2,2-dichloropropane	9.311	77	503430	142.53	ug/L	97
48) cis-1,2-dichloroethene	9.311	96	414228	150.03	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121121.D
Acq On : 28 Nov 2011 6:17 pm
Operator : tamikag
Sample : IC5154-200
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 09:48:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) propionitrile	9.400	54	472611	1704.05	ug/L		99
50) tert-Butyl Formate	9.814	59	302528	168.32	ug/L	#	99
51) bromochloromethane	9.698	128	214109	166.83	ug/L		98
52) tetrahydrofuran	9.740	42	125829	167.09	ug/L		97
53) chloroform	9.777	83	671487	149.97	ug/L		97
56) freon 113	6.503	151	263400	153.19	ug/L		99
57) methacrylonitrile	9.625	41	221617	171.22	ug/L		99
58) 1,1,1-trichloroethane	10.080	97	544449	152.57	ug/L		98
59) cyclohexane	10.164	84	511075	155.57	ug/L		90
61) iso-octane	10.650	57	1335766	140.31	ug/L		98
64) epichlorohydrin	12.675	57	144710	801.52	ug/L		93
65) n-butyl alcohol	11.341	56	561028	9225.82	ug/L		96
66) carbon tetrachloride	10.331	117	504775	165.32	ug/L		99
67) 1,1-dichloropropene	10.305	75	509953	155.45	ug/L		98
68) hexane	8.088	57	501154	146.30	ug/L		96
69) benzene	10.640	78	1441742	146.23	ug/L		98
70) tert-amyl methyl ether	10.703	73	1034557	166.69	ug/L		99
71) heptane	10.881	57	303682	152.34	ug/L		98
72) isopropyl acetate	10.577	43	683865	152.91	ug/L		96
73) 1,2-dichloroethane	10.671	62	462667	168.32	ug/L		98
74) trichloroethene	11.576	130	411170	160.91	ug/L		96
77) 2-nitropropane	12.643	46	5793	197.66	ug/L	#	1
78) 2-chloroethyl vinyl ether	12.675	63	715259	782.15	ug/L		99
79) methyl methacrylate	11.968	69	241456	164.90	ug/L		92
80) 1,2-dichloropropane	11.932	63	424533	158.34	ug/L		98
81) dibromomethane	12.141	93	238684	167.59	ug/L		96
82) methylcyclohexane	11.859	83	559667	145.78	ug/L		98
83) bromodichloromethane	12.329	83	544678	167.81	ug/L		99
84) cis-1,3-dichloropropene	12.952	75	680463	158.77	ug/L		95
86) 4-methyl-2-pentanone	13.098	58	146352	179.03	ug/L	#	63
87) toluene	13.433	92	932580	149.14	ug/L		96
88) 3-methyl-1-butanol	13.150	55	329464	3683.86	ug/L		95
89) trans-1,3-dichloropropene	13.721	75	604637	163.10	ug/L		99
90) ethyl methacrylate	13.736	69	456698	164.71	ug/L		94
91) 1,1,2-trichloroethane	14.008	83	291566	161.14	ug/L		99
92) 2-hexanone	14.259	58	134933	171.12	ug/L		93
94) 3,3-Dimethyl-1-butanol	14.510	57	365926	1877.35	ug/L		98
95) tetrachloroethene	14.217	164	361040	161.05	ug/L		98
96) 1,3-dichloropropane	14.249	76	551424	154.01	ug/L		95
97) butyl acetate	14.374	56	239947	159.65	ug/L		91
98) dibromochloromethane	14.594	129	455746	172.30	ug/L		99
99) 1,2-dibromoethane	14.782	107	359654	167.86	ug/L		99
101) chlorobenzene	15.405	112	1090083	150.11	ug/L		99
102) 1,1,1,2-tetrachloroethane	15.494	131	414967	159.07	ug/L		99
103) ethylbenzene	15.488	91	1698714	138.79	ug/L		97
104) m,p-xylene	15.635	106	1349971	282.08	ug/L		91
105) o-xylene	16.179	106	709217	149.34	ug/L		96
106) styrene	16.194	104	1169617	147.57	ug/L		95
107) bromoform	16.524	173	336677	185.49	ug/L		99
109) isopropylbenzene	16.618	105	1704951	135.07	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121121.D
Acq On : 28 Nov 2011 6:17 pm
Operator : tamikag
Sample : IC5154-200
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 09:48:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration

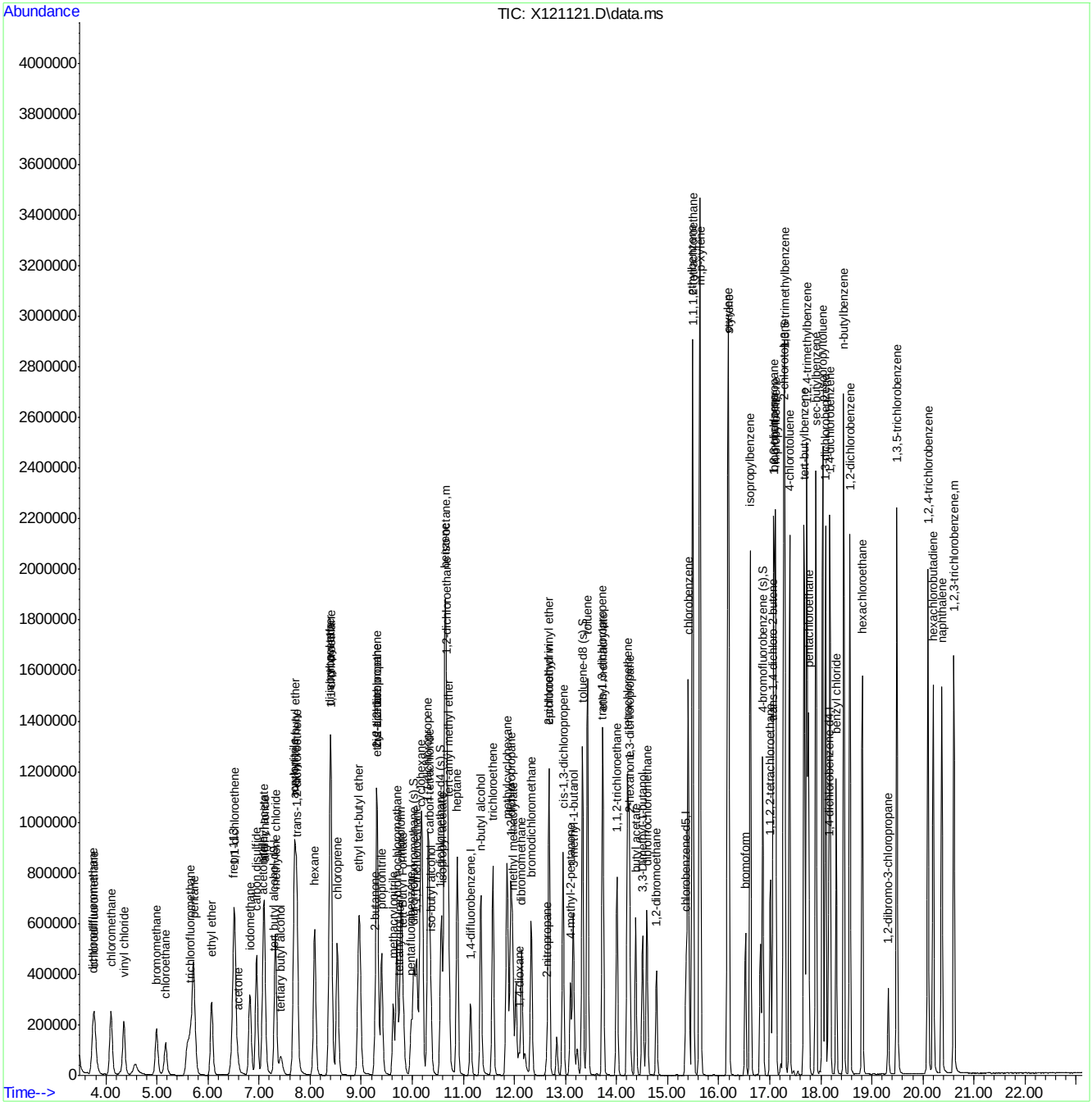
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) bromobenzene	17.078	156	500997	149.27	ug/L	98
112) 1,1,2,2-tetrachloroethane	17.010	83	460583	151.36	ug/L	98
113) trans-1,4-dichloro-2-b...	17.063	53	118797	160.78	ug/L	93
114) 1,2,3-trichloropropane	17.084	110	112381	155.33	ug/L	95
115) n-propylbenzene	17.115	91	1933594	126.96	ug/L	95
117) 2-chlorotoluene	17.272	126	458681	145.69	ug/L	92
118) 4-chlorotoluene	17.387	91	1288688	136.66	ug/L	97
119) 1,3,5-trimethylbenzene	17.293	105	1418736	135.59	ug/L	97
120) tert-butylbenzene	17.675	119	1278331	139.46	ug/L	99
121) pentachloroethane	17.758	167	342109	163.80	ug/L	100
122) 1,2,4-trimethylbenzene	17.722	105	1452153	134.25	ug/L	98
124) sec-butylbenzene	17.905	105	1862814	134.45	ug/L	96
125) 1,3-dichlorobenzene	18.093	146	935680	146.75	ug/L	97
126) p-isopropyltoluene	18.036	119	1574667	136.96	ug/L	97
127) 1,4-dichlorobenzene	18.182	146	946889	145.72	ug/L	98
128) 1,2-dichlorobenzene	18.569	146	900167	148.30	ug/L	98
129) benzyl chloride	18.302	91	831099	151.97	ug/L	98
131) n-butylbenzene	18.449	92	887291	142.15	ug/L	94
133) 1,2-dibromo-3-chloropr...	19.322	75	82799	154.54	ug/L	88
134) 1,3,5-trichlorobenzene	19.490	180	835332	158.63	ug/L	99
135) hexachlorobutadiene	20.201	225	413156	154.03	ug/L	99
136) naphthalene	20.368	128	1332911	160.32	ug/L	99
137) 1,2,4-trichlorobenzene	20.096	180	736223	163.55	ug/L	100
138) 1,2,3-trichlorobenzene	20.604	180	652009	166.04	ug/L	100
139) hexachloroethane	18.815	201	347077	171.76	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121121.D
Acq On : 28 Nov 2011 6:17 pm
Operator : tamikag
Sample : IC5154-200
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 29 09:48:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Nov 28 18:04:46 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121124.D
Acq On : 28 Nov 2011 7:45 pm
Operator : tamikag
Sample : ICV5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 29 17:35:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.282	65	71084	500.00	ug/L	0.00
5) pentafluorobenzene	9.981	168	227505	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.142	114	327453	50.00	ug/L	0.00
93) chlorobenzene-d5	15.363	117	311179	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.151	152	162675	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	97700	53.19	ug/L	0.00
Spiked Amount 50.000 Range 67 - 131 Recovery = 106.38%						
55) 1,2-dichloroethane-d4 (s)	10.557	65	98578	53.45	ug/L	0.00
Spiked Amount 50.000 Range 66 - 130 Recovery = 106.90%						
85) toluene-d8 (s)	13.334	98	348689	51.42	ug/L	0.00
Spiked Amount 50.000 Range 76 - 125 Recovery = 102.84%						
110) 4-bromofluorobenzene (s)	16.864	95	140206	48.94	ug/L	0.00
Spiked Amount 50.000 Range 53 - 142 Recovery = 97.88%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.424	59	49212	263.40	ug/L	97
4) 1,4-dioxane	12.089	88	23271	1316.20	ug/L #	95
11) chlorodifluoromethane	3.778	51	70664	39.39	ug/L	93
12) dichlorodifluoromethane	3.762	85	133759	49.72	ug/L	98
15) chloromethane	4.092	50	161015	50.68	ug/L	99
16) vinyl chloride	4.343	62	129687	50.82	ug/L	98
18) bromomethane	5.002	94	76731	48.33	ug/L	97
19) chloroethane	5.180	64	64683	49.89	ug/L	97
21) trichlorofluoromethane	5.661	101	147575	50.17	ug/L	100
22) pentane	5.729	43	116253	34.70	ug/L	99
23) ethyl ether	6.074	74	56032	53.88	ug/L	96
27) acrolein	6.346	56	159160	500.89	ug/L #	100
28) 1,1-dichloroethene	6.529	96	81521	51.52	ug/L	98
29) acetone	6.592	58	6742	53.99	ug/L #	81
30) allyl chloride	7.105	76	58762	52.20	ug/L	95
31) acetonitrile	7.068	40	77419	507.82	ug/L #	64
32) iodomethane	6.822	142	180836	51.70	ug/L	98
33) iso-butyl alcohol	10.363	43	43033	524.18	ug/L	96
34) carbon disulfide	6.953	76	300924	49.81	ug/L	99
35) methylene chloride	7.324	84	105342	52.26	ug/L	99
36) methyl acetate	7.089	43	64095	47.74	ug/L	99
37) methyl tert butyl ether	7.696	73	501361	102.48	ug/L	100
38) trans-1,2-dichloroethene	7.743	96	93344	51.22	ug/L	99
39) di-isopropyl ether	8.391	45	351662	46.40	ug/L	91
40) 2-butanone	9.275	72	9584	54.62	ug/L #	90
41) 1,1-dichloroethane	8.407	63	184294	53.51	ug/L	98
42) chloroprene	8.532	53	122569	42.68	ug/L	99
43) acrylonitrile	7.696	53	153735	269.15	ug/L	99
44) vinyl acetate	8.396	86	14992	55.81	ug/L	60
45) ethyl tert-butyl ether	8.961	59	315349	50.06	ug/L	99
46) ethyl acetate	9.301	70	8841	50.63	ug/L	69
47) 2,2-dichloropropane	9.312	77	129367	48.33	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121124.D
Acq On : 28 Nov 2011 7:45 pm
Operator : tamikag
Sample : ICV5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 29 17:35:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) cis-1,2-dichloroethene	9.312	96	109671	52.18	ug/L		95
49) propionitrile	9.401	54	118002	527.98	ug/L		95
50) tert-Butyl Formate	9.814	59	80886	55.17	ug/L	#	100
51) bromochloromethane	9.694	128	56465	53.78	ug/L		96
52) tetrahydrofuran	9.741	42	31255	50.48	ug/L		99
53) chloroform	9.777	83	176683	52.61	ug/L		99
56) freon 113	6.503	151	64139	46.26	ug/L		99
57) methacrylonitrile	9.626	41	54007	52.31	ug/L		97
58) 1,1,1-trichloroethane	10.081	97	138182	52.18	ug/L		98
59) cyclohexane	10.169	84	131279	50.03	ug/L		84
61) iso-octane	10.651	57	327047	44.29	ug/L		99
64) epichlorohydrin	12.680	57	34340	245.35	ug/L		98
65) n-butyl alcohol	11.341	56	138217	2733.54	ug/L		98
66) carbon tetrachloride	10.337	117	128868	51.25	ug/L		98
67) 1,1-dichloropropene	10.305	75	129891	50.99	ug/L		98
68) hexane	8.088	57	107218	39.23	ug/L		99
69) benzene	10.640	78	384016	51.16	ug/L		100
70) tert-amyl methyl ether	10.698	73	286157	50.67	ug/L		98
71) heptane	10.881	57	65831	40.95	ug/L		96
72) isopropyl acetate	10.577	43	186907	50.81	ug/L		98
73) 1,2-dichloroethane	10.666	62	121777	53.46	ug/L		98
74) trichloroethene	11.576	130	106335	52.47	ug/L		98
77) 2-nitropropane	12.628	46	1352	47.76	ug/L	#	4
78) 2-chloroethyl vinyl ether	12.675	63	175500	245.97	ug/L		99
79) methyl methacrylate	11.969	69	60012	53.11	ug/L		95
80) 1,2-dichloropropane	11.932	63	110273	52.28	ug/L		98
81) dibromomethane	12.141	93	61072	52.54	ug/L		98
82) methylcyclohexane	11.859	83	136226	43.92	ug/L		99
83) bromodichloromethane	12.330	83	140396	54.35	ug/L		99
84) cis-1,3-dichloropropene	12.952	75	178934	54.25	ug/L		100
86) 4-methyl-2-pentanone	13.098	58	35181	52.86	ug/L		99
87) toluene	13.433	92	250069	52.15	ug/L		100
88) 3-methyl-1-butanol	13.151	55	80886	1090.32	ug/L		99
89) trans-1,3-dichloropropene	13.726	75	157674	54.54	ug/L		99
90) ethyl methacrylate	13.736	69	117034	54.30	ug/L		99
91) 1,1,2-trichloroethane	14.008	83	75639	54.17	ug/L		98
92) 2-hexanone	14.260	58	33168	53.11	ug/L		98
94) 3,3-Dimethyl-1-butanol	14.505	57	89398	553.22	ug/L		99
95) tetrachloroethene	14.218	164	95604	49.86	ug/L		98
96) 1,3-dichloropropane	14.249	76	145601	51.10	ug/L		98
97) butyl acetate	14.380	56	61895	51.47	ug/L		97
98) dibromochloromethane	14.594	129	116831	53.88	ug/L		97
99) 1,2-dibromoethane	14.783	107	92604	54.35	ug/L		97
101) chlorobenzene	15.400	112	295226	52.81	ug/L		99
102) 1,1,1,2-tetrachloroethane	15.489	131	110189	53.03	ug/L		99
103) ethylbenzene	15.489	91	461944	50.94	ug/L		99
104) m,p-xylene	15.630	106	366361	102.34	ug/L		99
105) o-xylene	16.174	106	187234	51.91	ug/L		97
106) styrene	16.195	104	320051	51.81	ug/L		98
107) bromoform	16.524	173	83252	52.61	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121124.D
Acq On : 28 Nov 2011 7:45 pm
Operator : tamikag
Sample : ICV5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 29 17:35:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

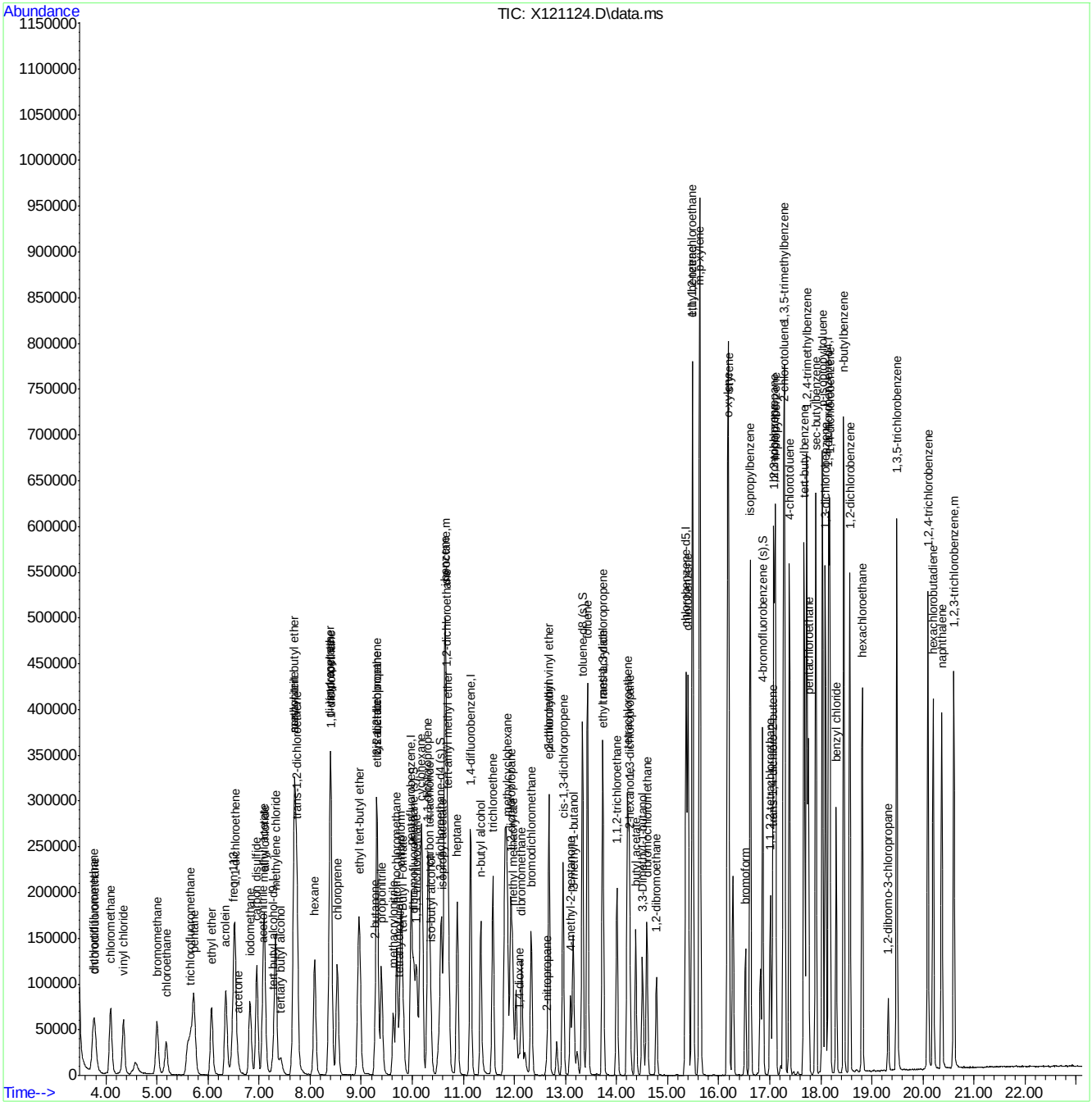
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.618	105	459203	49.21 ug/L	99
111) bromobenzene	17.079	156	137813	52.90 ug/L	98
112) 1,1,2,2-tetrachloroethane	17.011	83	116428	51.36 ug/L	99
113) trans-1,4-dichloro-2-b...	17.058	53	28372	50.92 ug/L	95
114) 1,2,3-trichloropropane	17.084	110	29170	51.96 ug/L #	90
115) n-propylbenzene	17.110	91	529416	48.23 ug/L	100
117) 2-chlorotoluene	17.272	126	122016	49.72 ug/L	100
118) 4-chlorotoluene	17.382	91	347809	49.95 ug/L	99
119) 1,3,5-trimethylbenzene	17.288	105	382420	49.29 ug/L	99
120) tert-butylbenzene	17.670	119	342760	49.33 ug/L	99
121) pentachloroethane	17.759	167	85946	48.53 ug/L	99
122) 1,2,4-trimethylbenzene	17.722	105	395704	49.90 ug/L	100
124) sec-butylbenzene	17.905	105	506386	49.01 ug/L	98
125) 1,3-dichlorobenzene	18.093	146	250727	50.60 ug/L	99
126) p-isopropyltoluene	18.031	119	428923	49.59 ug/L	100
127) 1,4-dichlorobenzene	18.177	146	251958	49.93 ug/L	98
128) 1,2-dichlorobenzene	18.569	146	243960	51.62 ug/L	99
129) benzyl chloride	18.302	91	215499	50.53 ug/L	100
131) n-butylbenzene	18.449	92	230621	50.05 ug/L	98
133) 1,2-dibromo-3-chloropr...	19.317	75	19772	49.08 ug/L	97
134) 1,3,5-trichlorobenzene	19.485	180	221810	50.80 ug/L	99
135) hexachlorobutadiene	20.201	225	108606	49.65 ug/L	98
136) naphthalene	20.368	128	341163	56.73 ug/L	99
137) 1,2,4-trichlorobenzene	20.096	180	190535	54.25 ug/L	98
138) 1,2,3-trichlorobenzene	20.604	180	170331	54.88 ug/L	99
139) hexachloroethane	18.815	201	90127	51.47 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\vx5154final\
Data File : X121124.D
Acq On : 28 Nov 2011 7:45 pm
Operator : tamikag
Sample : ICV5154-50
Misc : MS21975,VX5154,5.0,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 29 17:35:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



ACCUTEST LABORATORIES
JA93968

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121553.D
Acq On : 9 Dec 2011 1:03 pm
Operator : tamikag
Sample : CC5154-20
Misc : MS22413,VX5173,1.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 13:56:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.272	65	70217	500.00	ug/L	-0.02
5) pentafluorobenzene	9.960	168	199553	50.00	ug/L	-0.02
62) 1,4-difluorobenzene	11.127	114	288662	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.347	117	292509	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.146	152	159333	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.013	113	88931	55.20	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.40%			
55) 1,2-dichloroethane-d4 (s)	10.541	65	79379	49.07	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 98.14%			
85) toluene-d8 (s)	13.318	98	343421	57.45	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 125		Recovery = 114.90%			
110) 4-bromofluorobenzene (s)	16.854	95	133565	47.60	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 95.20%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.403	59	17084	92.57	ug/L	93
4) 1,4-dioxane	12.078	88	8294	474.90	ug/L #	90
11) chlorodifluoromethane	3.778	51	33169	21.08	ug/L	98
12) dichlorodifluoromethane	3.762	85	49190	20.85	ug/L	99
15) chloromethane	4.076	50	53032	19.03	ug/L	97
16) vinyl chloride	4.332	62	45440	20.30	ug/L	98
18) bromomethane	4.991	94	31006	22.26	ug/L	96
19) chloroethane	5.180	64	23333	20.52	ug/L	94
21) trichlorofluoromethane	5.651	101	56313	21.83	ug/L	96
22) pentane	5.708	43	58911	20.05	ug/L	98
23) ethyl ether	6.048	74	18513	20.30	ug/L	90
27) acrolein	6.336	56	49104	176.18	ug/L #	100
28) 1,1-dichloroethene	6.513	96	32254	23.24	ug/L	92
29) acetone	6.571	58	3533	32.26	ug/L #	73
30) allyl chloride	7.094	76	21730	22.01	ug/L #	82
31) acetonitrile	7.057	40	24989	186.87	ug/L #	75
32) iodomethane	6.806	142	68846	22.44	ug/L	98
33) iso-butyl alcohol	10.352	43	13854	192.39	ug/L	94
34) carbon disulfide	6.937	76	114815	21.67	ug/L	97
35) methylene chloride	7.303	84	37344	21.12	ug/L	89
36) methyl acetate	7.073	43	22179	18.84	ug/L	96
37) methyl tert butyl ether	7.685	73	94844	22.10	ug/L	98
38) trans-1,2-dichloroethene	7.727	96	36465	22.81	ug/L	93
39) di-isopropyl ether	8.375	45	123746	18.61	ug/L	90
40) 2-butanone	9.259	72	3720	24.17	ug/L	63
41) 1,1-dichloroethane	8.391	63	66579	22.04	ug/L	98
42) chloroprene	8.517	53	50493	20.05	ug/L	98
43) acrylonitrile	7.680	53	49204	98.21	ug/L	100
44) vinyl acetate	8.386	86	4574	19.41	ug/L	57
45) ethyl tert-butyl ether	8.940	59	108005	19.55	ug/L	98
46) ethyl acetate	9.296	70	3135	20.47	ug/L	94
47) 2,2-dichloropropane	9.296	77	53525	22.80	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121553.D
Acq On : 9 Dec 2011 1:03 pm
Operator : tamikag
Sample : CC5154-20
Misc : MS22413,VX5173,1.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 13:56:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.291	96	40490	21.96	ug/L		92
49)	propionitrile	9.390	54	39122	199.56	ug/L		90
50)	tert-Butyl Formate	9.803	59	26968	20.97	ug/L	#	97
51)	bromochloromethane	9.683	128	20159	21.89	ug/L	#	82
52)	tetrahydrofuran	9.730	42	10156	18.70	ug/L		97
53)	chloroform	9.761	83	65856	22.36	ug/L		98
56)	freon 113	6.493	151	27963	22.99	ug/L		90
57)	methacrylonitrile	9.610	41	17056	18.83	ug/L		97
58)	1,1,1-trichloroethane	10.060	97	54892	23.63	ug/L		94
59)	cyclohexane	10.154	84	47970	20.84	ug/L		96
61)	iso-octane	10.630	57	128107	19.78	ug/L		99
64)	epichlorohydrin	12.664	57	8772	71.09	ug/L		97
65)	n-butyl alcohol	11.325	56	43273	970.82	ug/L		97
66)	carbon tetrachloride	10.316	117	52356	23.62	ug/L		97
67)	1,1-dichloropropene	10.290	75	49051	21.84	ug/L		97
68)	hexane	8.072	57	46599	19.34	ug/L		97
69)	benzene	10.619	78	144724	21.87	ug/L		99
70)	tert-amyl methyl ether	10.682	73	96835	19.45	ug/L		98
71)	heptane	10.865	57	27582	19.46	ug/L		97
72)	isopropyl acetate	10.567	43	62018	19.12	ug/L		98
73)	1,2-dichloroethane	10.656	62	42341	21.09	ug/L		99
74)	trichloroethene	11.561	130	41585	23.28	ug/L		99
78)	2-chloroethyl vinyl ether	12.664	63	47453	75.44	ug/L		97
79)	methyl methacrylate	11.958	69	19852	19.93	ug/L		82
80)	1,2-dichloropropane	11.916	63	38751	20.84	ug/L		95
81)	dibromomethane	12.126	93	21503	20.99	ug/L		98
82)	methylcyclohexane	11.838	83	56051	20.50	ug/L		98
83)	bromodichloromethane	12.314	83	51125	22.45	ug/L		98
84)	cis-1,3-dichloropropene	12.936	75	62829	21.61	ug/L		98
86)	4-methyl-2-pentanone	13.088	58	11751	20.03	ug/L		87
87)	toluene	13.417	92	94146	22.27	ug/L		98
88)	3-methyl-1-butanol	13.140	55	26023	397.92	ug/L		98
89)	trans-1,3-dichloropropene	13.710	75	55264	21.68	ug/L		99
90)	ethyl methacrylate	13.726	69	38801	20.42	ug/L		94
91)	1,1,2-trichloroethane	13.993	83	26494	21.53	ug/L		99
92)	2-hexanone	14.254	58	12064	21.91	ug/L		97
94)	3,3-Dimethyl-1-butanol	14.495	57	26951	177.43	ug/L		96
95)	tetrachloroethene	14.202	164	36744	20.39	ug/L		99
96)	1,3-dichloropropane	14.233	76	50799	18.96	ug/L		96
97)	butyl acetate	14.364	56	20194	17.86	ug/L		99
98)	dibromochloromethane	14.584	129	42951	21.07	ug/L		97
99)	1,2-dibromoethane	14.767	107	32781	20.47	ug/L		100
101)	chlorobenzene	15.389	112	108355	20.62	ug/L		98
102)	1,1,1,2-tetrachloroethane	15.478	131	41507	21.25	ug/L		97
103)	ethylbenzene	15.473	91	176867	20.75	ug/L		98
104)	m,p-xylene	15.619	106	139889	41.57	ug/L		97
105)	o-xylene	16.163	106	70803	20.88	ug/L		97
106)	styrene	16.184	104	115735	19.93	ug/L		96
107)	bromoform	16.514	173	30279	20.36	ug/L		95
109)	isopropylbenzene	16.608	105	179750	19.67	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121553.D
Acq On : 9 Dec 2011 1:03 pm
Operator : tamikag
Sample : CC5154-20
Misc : MS22413,VX5173,1.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 13:56:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

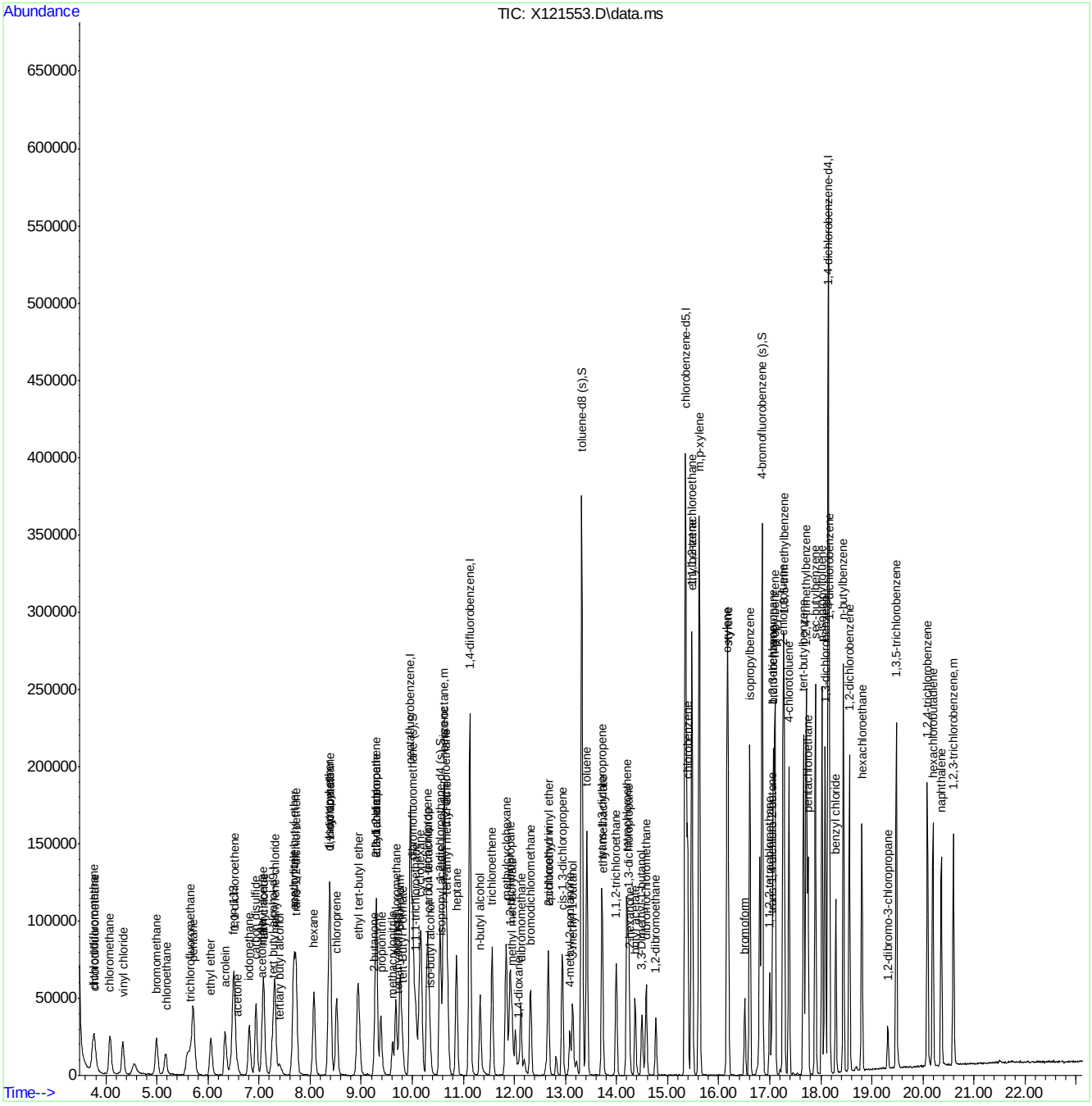
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.073	156	51172	20.06 ug/L	93
112) 1,1,2,2-tetrachloroethane	17.000	83	40046	18.04 ug/L	95
113) trans-1,4-dichloro-2-b...	17.047	53	9419	17.26 ug/L	89
114) 1,2,3-trichloropropane	17.073	110	10622	19.32 ug/L #	84
115) n-propylbenzene	17.099	91	208110	19.36 ug/L	99
117) 2-chlorotoluene	17.262	126	46073	19.17 ug/L	97
118) 4-chlorotoluene	17.377	91	128452	18.83 ug/L	98
119) 1,3,5-trimethylbenzene	17.283	105	147316	19.38 ug/L	98
120) tert-butylbenzene	17.664	119	134246	19.73 ug/L	98
121) pentachloroethane	17.748	167	33165	19.12 ug/L	98
122) 1,2,4-trimethylbenzene	17.717	105	152086	19.58 ug/L	99
124) sec-butylbenzene	17.895	105	198798	19.64 ug/L	99
125) 1,3-dichlorobenzene	18.083	146	95346	19.65 ug/L	98
126) p-isopropyltoluene	18.025	119	166741	19.68 ug/L	99
127) 1,4-dichlorobenzene	18.166	146	94513	19.12 ug/L	99
128) 1,2-dichlorobenzene	18.559	146	90679	19.59 ug/L	99
129) benzyl chloride	18.292	91	82838	19.83 ug/L	99
131) n-butylbenzene	18.438	92	86422	19.15 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.312	75	6860	17.39 ug/L	94
134) 1,3,5-trichlorobenzene	19.479	180	83729	19.58 ug/L	98
135) hexachlorobutadiene	20.196	225	43720	20.41 ug/L	98
136) naphthalene	20.358	128	117388	19.93 ug/L	99
137) 1,2,4-trichlorobenzene	20.086	180	69158	20.10 ug/L	98
138) 1,2,3-trichlorobenzene	20.593	180	59401	19.54 ug/L	99
139) hexachloroethane	18.805	201	34978	20.40 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5174\
Data File : X121553.D
Acq On : 9 Dec 2011 1:03 pm
Operator : tamikag
Sample : CC5154-20
Misc : MS22413,VX5173,1.0,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 13:56:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121639.D
Acq On : 12 Dec 2011 9:25 am
Operator : tamikag
Sample : CC5154-20
Misc : MS22489,VX5178,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:20:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.256	65	84784	500.00	ug/L	-0.03
5) pentafluorobenzene	9.944	168	235002	50.00	ug/L	-0.03
62) 1,4-difluorobenzene	11.106	114	344525	50.00	ug/L	-0.04
93) chlorobenzene-d5	15.332	117	371433	50.00	ug/L	-0.03
108) 1,4-dichlorobenzene-d4	18.130	152	195099	50.00	ug/L	-0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	9.992	113	106769	56.28	ug/L	-0.04
Spiked Amount 50.000	Range 67 - 131		Recovery = 112.56%			
55) 1,2-dichloroethane-d4 (s)	10.520	65	94575	49.65	ug/L	-0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 99.30%			
85) toluene-d8 (s)	13.302	98	426671	59.80	ug/L	-0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 119.60%			
110) 4-bromofluorobenzene (s)	16.838	95	169241	49.25	ug/L	-0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 98.50%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.376	59	19053	85.50	ug/L	91
4) 1,4-dioxane	12.063	88	9723	461.07	ug/L #	94
11) chlorodifluoromethane	3.752	51	43658	23.56	ug/L	96
12) dichlorodifluoromethane	3.726	85	44445	15.99	ug/L	99
15) chloromethane	4.060	50	50789	15.48	ug/L	99
16) vinyl chloride	4.311	62	43486	16.50	ug/L	98
18) bromomethane	4.970	94	30183	18.40	ug/L	98
19) chloroethane	5.148	64	22317	16.66	ug/L	95
21) trichlorofluoromethane	5.624	101	52458	17.27	ug/L	96
22) pentane	5.687	43	77756	22.47	ug/L	98
23) ethyl ether	6.032	74	19734	18.37	ug/L	97
27) acrolein	6.309	56	56579	172.38	ug/L #	99
28) 1,1-dichloroethene	6.487	96	34778	21.28	ug/L	97
29) acetone	6.560	58	2448	18.98	ug/L #	78
30) allyl chloride	7.073	76	23502	20.21	ug/L #	76
31) acetonitrile	7.042	40	29875	189.71	ug/L	92
32) iodomethane	6.785	142	74337	20.58	ug/L	99
33) iso-butyl alcohol	10.331	43	15250	179.83	ug/L	91
34) carbon disulfide	6.916	76	126348	20.25	ug/L	96
35) methylene chloride	7.287	84	40650	19.52	ug/L	92
36) methyl acetate	7.057	43	25356	18.29	ug/L	98
37) methyl tert butyl ether	7.664	73	99534	19.70	ug/L	98
38) trans-1,2-dichloroethene	7.706	96	40468	21.50	ug/L	94
39) di-isopropyl ether	8.354	45	140975	18.01	ug/L	91
40) 2-butanone	9.249	72	3421	18.87	ug/L	68
41) 1,1-dichloroethane	8.370	63	71779	20.18	ug/L	98
42) chloroprene	8.501	53	60285	20.32	ug/L	97
43) acrylonitrile	7.659	53	53157	90.10	ug/L	99
44) vinyl acetate	8.365	86	5881	21.19	ug/L	43
45) ethyl tert-butyl ether	8.919	59	124738	19.17	ug/L	98
46) ethyl acetate	9.275	70	3530	19.57	ug/L	94
47) 2,2-dichloropropane	9.270	77	58527	21.17	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121639.D
Acq On : 12 Dec 2011 9:25 am
Operator : tamikag
Sample : CC5154-20
Misc : MS22489,VX5178,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:20:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.275	96	45037	20.74	ug/L		93
49)	propionitrile	9.364	54	43222	187.22	ug/L		90
50)	tert-Butyl Formate	9.782	59	31824	21.01	ug/L	#	98
51)	bromochloromethane	9.662	128	22179	20.45	ug/L		89
52)	tetrahydrofuran	9.709	42	10784	16.86	ug/L		96
53)	chloroform	9.740	83	72147	20.80	ug/L		95
56)	freon 113	6.472	151	33941	23.70	ug/L		98
57)	methacrylonitrile	9.594	41	18154	17.02	ug/L		96
58)	1,1,1-trichloroethane	10.044	97	59211	21.65	ug/L		98
59)	cyclohexane	10.122	84	51780	19.10	ug/L		74
61)	iso-octane	10.614	57	147481	19.33	ug/L		99
64)	epichlorohydrin	12.648	57	11975	81.32	ug/L		94
65)	n-butyl alcohol	11.310	56	48504	911.74	ug/L		96
66)	carbon tetrachloride	10.295	117	56052	21.19	ug/L		98
67)	1,1-dichloropropene	10.269	75	53763	20.06	ug/L		99
68)	hexane	8.051	57	56828	19.76	ug/L		97
69)	benzene	10.603	78	160106	20.27	ug/L		99
70)	tert-amyl methyl ether	10.666	73	110671	18.63	ug/L		98
71)	heptane	10.849	57	31743	18.77	ug/L		98
72)	isopropyl acetate	10.551	43	81731	21.12	ug/L		96
73)	1,2-dichloroethane	10.635	62	44898	18.73	ug/L		98
74)	trichloroethene	11.545	130	45927	21.54	ug/L		99
77)	2-nitropropane	12.628	46	151	5.07	ug/L	#	1
78)	2-chloroethyl vinyl ether	12.643	63	59915	79.81	ug/L		98
79)	methyl methacrylate	11.937	69	21215	17.84	ug/L		87
80)	1,2-dichloropropane	11.895	63	41852	18.86	ug/L		98
81)	dibromomethane	12.105	93	23564	19.27	ug/L		98
82)	methylcyclohexane	11.822	83	67626	20.72	ug/L		96
83)	bromodichloromethane	12.298	83	54607	20.09	ug/L		97
84)	cis-1,3-dichloropropene	12.920	75	68714	19.80	ug/L		96
86)	4-methyl-2-pentanone	13.072	58	12673	18.10	ug/L		86
87)	toluene	13.402	92	102213	20.26	ug/L		97
88)	3-methyl-1-butanol	13.124	55	30416	389.68	ug/L		97
89)	trans-1,3-dichloropropene	13.695	75	59149	19.44	ug/L		98
90)	ethyl methacrylate	13.710	69	40938	18.05	ug/L		97
91)	1,1,2-trichloroethane	13.977	83	28940	19.70	ug/L		99
92)	2-hexanone	14.233	58	11387	17.33	ug/L		96
94)	3,3-Dimethyl-1-butanol	14.479	57	31900	165.38	ug/L		98
95)	tetrachloroethene	14.186	164	40745	17.80	ug/L		97
96)	1,3-dichloropropane	14.218	76	54858	16.13	ug/L		94
97)	butyl acetate	14.348	56	23252	16.20	ug/L		87
98)	dibromochloromethane	14.568	129	45392	17.54	ug/L		99
99)	1,2-dibromoethane	14.756	107	35075	17.25	ug/L		97
101)	chlorobenzene	15.373	112	116988	17.53	ug/L		99
102)	1,1,1,2-tetrachloroethane	15.462	131	44490	17.94	ug/L		99
103)	ethylbenzene	15.457	91	191519	17.69	ug/L		100
104)	m,p-xylene	15.604	106	153111	35.83	ug/L		98
105)	o-xylene	16.153	106	77752	18.06	ug/L		96
106)	styrene	16.168	104	124835	16.93	ug/L		96
107)	bromoform	16.498	173	31813	16.84	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121639.D
Acq On : 12 Dec 2011 9:25 am
Operator : tamikag
Sample : CC5154-20
Misc : MS22489,VX5178,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:20:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration

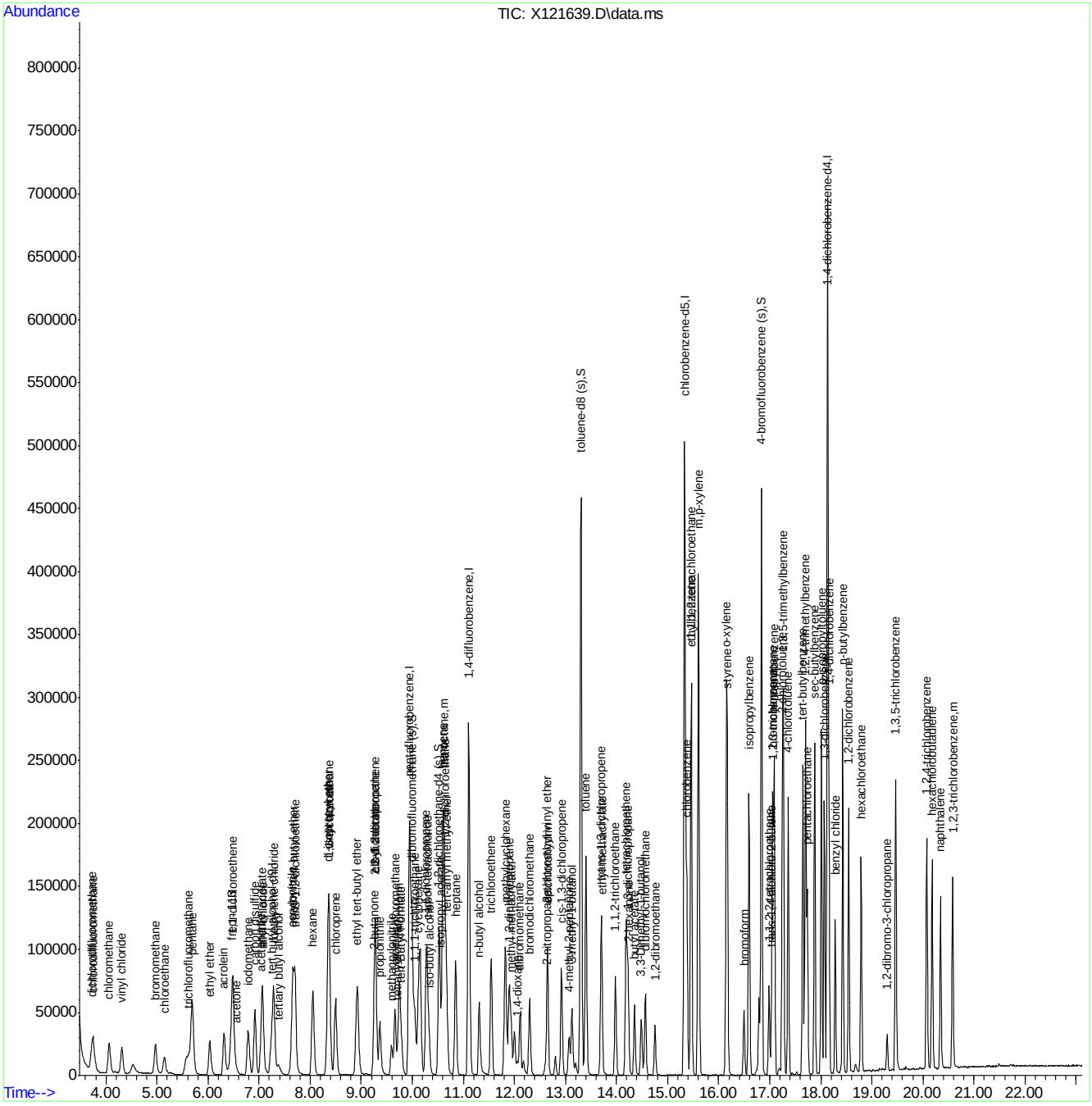
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) isopropylbenzene	16.592	105	195164	17.44 ug/L	99
111) bromobenzene	17.058	156	54644	17.49 ug/L	94
112) 1,1,2,2-tetrachloroethane	16.984	83	42705	15.71 ug/L	99
113) trans-1,4-dichloro-2-b...	17.031	53	10465	15.66 ug/L	93
114) 1,2,3-trichloropropane	17.063	110	11026	16.38 ug/L #	64
115) n-propylbenzene	17.089	91	226515	17.21 ug/L	99
117) 2-chlorotoluene	17.246	126	49801	16.92 ug/L	99
118) 4-chlorotoluene	17.361	91	138560	16.59 ug/L	98
119) 1,3,5-trimethylbenzene	17.267	105	160487	17.25 ug/L	99
120) tert-butylbenzene	17.649	119	146197	17.54 ug/L	97
121) pentachloroethane	17.737	167	35339	16.64 ug/L	99
122) 1,2,4-trimethylbenzene	17.701	105	166643	17.52 ug/L	98
124) sec-butylbenzene	17.879	105	211683	17.08 ug/L	99
125) 1,3-dichlorobenzene	18.072	146	101224	17.03 ug/L	97
126) p-isopropyltoluene	18.009	119	178597	17.22 ug/L	97
127) 1,4-dichlorobenzene	18.156	146	99818	16.49 ug/L	99
128) 1,2-dichlorobenzene	18.548	146	96269	16.99 ug/L	99
129) benzyl chloride	18.281	91	89744	17.55 ug/L	99
131) n-butylbenzene	18.428	92	91854	16.62 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.301	75	7167	14.83 ug/L	92
134) 1,3,5-trichlorobenzene	19.463	180	85680	16.36 ug/L	99
135) hexachlorobutadiene	20.180	225	45382	17.30 ug/L	97
136) naphthalene	20.342	128	121443	16.84 ug/L	99
137) 1,2,4-trichlorobenzene	20.075	180	70961	16.85 ug/L	99
138) 1,2,3-trichlorobenzene	20.583	180	60796	16.33 ug/L	99
139) hexachloroethane	18.794	201	37243	17.73 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5178\
Data File : X121639.D
Acq On : 12 Dec 2011 9:25 am
Operator : tamikag
Sample : CC5154-20
Misc : MS22489,VX5178,5.0,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:20:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\MX5154.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VD7671

Print Analyst Name: Emily T

Analyst Signature:

Date: 10/28/11 (FRI)

Columns: DB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method ~~HD7536~~ HD7671 2+ 10/28/11

Standard Data

Lot #	Description	Conc.
VOL-1131-138	Intralipid	25-125 ppm
L-110	Surrogate	100 ppm
VOL-1197-04	DISULFE (S)	100-500 ppm
VOL-1131-14	Exp Acrolein	1000 ppm
L-126	Acrolein	

Standard Data

Lot #	Description	Conc.
VOL-1131-129	IntdA	100 ppm
-131	B	
-142	C	
-143	ext A	
VOL-1197-03	B	
VOL-1197-04	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: Date: 11/1

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
	D188518	BFB				1							OK	8:53am	
	188519	JC7671-0.5				2						✓	OK	0.5ul A,B,C,Acrolein, Ext A, S → 10ppm	
	188520	JC7671-1				3						✓	OK	1ul A,B,C,Acrolein, Ext A, S → 10ppm	
	188521	JC7671-2				4						✓	OK	2ul A,B,C, ~~Acrolein~~ 10ul Acrolein, Ext A, S → 10ppm	
	188522	JC7671-5				5						✓	OK	5ul A,B,C,Acrolein, Ext A, S → 10ppm	
	188523	JC7671-10				6						✓	OK	5ul A,B,C,Acrolein, Ext A, S → 25ppm C	
	188524	JC7671-20				7						✓	OK	10ul A,B,C,Acrolein, Ext A, S → 50ppm C	
	188525	JC7671-50				8						✓	OK	25ul A,B,C, Acrolein, Ext A, S → 50ppm	
	188526	JC7671-50 C				9						✓	OK	25ul ~~Ext~~ A,B,C Acrolein, Ext A, S → 75	
	188527	JC7671-100				10						✓	OK	50ul A,B,C, ~~Acrolein~~ 2ml Acrolein, Ext A, S → 150ppm	
	188528	JC7671-200				11						✓	OK	100ul A,B,C, ~~Acrolein~~ 4ml Acrolein, Ext A, S → 300ppm C	
	188529	IB				12									
	188530	IB				13									
	188531	MB				14						—	OK		
	188532	BS				15						—	OK	25ul ~~Ext~~ A,B,C Acrolein → 250	
	188533	IB				16						—			
R	188534	JA89370.5	20081 PAG7MB	S	2	17	5.5/10	100				—	OK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST. VOLATILE ANALYSIS LOG

Batch ID: VD7671

Date: 10/28/11 (FRI)

Print Analyst Name: Emily T

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 237	

Columns: DB624 (60m x 0.25mm x 1.4um)

Method 8260

Initial Cal. Method MD7671

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: 11/2

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	D188535	JA89370-1	20081 PAUGTMB	S	2	18	5.5/10	100			—		ok		
	188536	JA89370-SMS	↓	↓	↓	19	↓	↓			—		ok	25ul ABC Acrolein 250	
	188537	JA89370-SMSD	↓	↓	↓	20	↓	↓			—		ok	↓	
	188538	IB				21					—				

YXL

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

239

6.7.1 6

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VD7742

Print Analyst Name: Emily T

Analyst Signature: [signature]

Date: 12/10/11 (SAT)

Columns: DB624 (60mx0.25mmx1.4um)

Method 8260

Initial Cal. Method MD7671

Standard Data

Lot #	Description	Conc.
LL1189936	Int/Surr	250/250ppm
-66	GMA	100ppm
-69	B	
-67	C	
-64	Acrolein	1000ppm

Standard Data

Lot #	Description	Conc.
LL1192-61	GMA	100ppm
-65	B	
-70	C	
-46	504 Acrolein	1000ppm
JL1826MM	MeOH	

LL54F LL1-1197-44 100-500ppm

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: 12/12/2011

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
	D190173	BFB				1							ok	9:22am	
	190174A	CC7671-70				2						—	ok	10, 2A, B, C Acrolein → 250	
	190175	IB				3						—	clean up		
	190176	MB				4				✓		—	ok		
	190177	JA74770-32	12081 (12/1)			5						—	ok		
	190178	JA62868D-13A	19413			6						—	ok		
	190179	BS				7						—	ok	25ul 2A, B, C Acrolein → 250	
	190180	IB				8						—	clean up		
	190181	JA93968-1	22716 SCT	S	4	9	5.2/5	100ul				—	ok		
	190182	JA93968-3			4	10	4.6/5	100ul				—	MG	go back to low level "X"	
	190183	JA93968-6			4	11	5.8/5	100ul				—	MG	go back to low level "X"	
D	190184	JA93321-1	22339 NJP TCLH42	S	3	12	4.4/5	100				—	ok	SWQCQC	
R	190185	JA93322-9	22340 TCLHOT	S	3	13	4.7/5	100		✓		—	ok		
R	190186	JA93657-23 ~~JA93322-1~~			3	14	5.8/5.4	100				—	ok	MS22502 TCLHO → low level "X"	
R	190187	JA93657-10 ~~JA93322-6~~			4	15	5.8/5.7	100					hot run		
R	190188	JA93657-11 ~~JA93322-1~~			3	16	4.7/5.4/5	100							
R	190189	JA93529-1	22501 BTX	S	3	17	5.3/5	100							

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: VD7742

Print Analyst Name: Emily T

Analyst Signature:

Date: 12/10/11 (SAT)

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 225	

Columns: DB624 (60m x 0.45mm x 1.8um)

Method 8260

Initial Cal. Method MD7621

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:** 12/12/2011

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
	D190190	JA93486-6	22448 PADF MBMTBE	S	4	18	5.8/5	100			—		ok	25ml AB, GA cooler → 50	
	190191	JA93486 MSD	↓	↓	4	19	5.8/5	100			—		ok	↓	
	190192	IB				20					—		clean up		
R	190193	JA93486-6	22448 PADF MBMTBE	S	4	21	5.8/5	100			—		ok		
	190194	JA93560-1	22496 PADF MTBE	S	2	22	5.3/10	100			—		ok	8:47pm	
	190195	IB				23					—		clean up		
	190196	IB				24					—		↓		

12/12/2011

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: VX5154

Print Analyst Name: TAMIKA GINN

Analyst Signature: [signature]

Date: 11/28/11

Columns: ZB624 (60M x 0.25MMX1.4UM)

Method: V8260

Initial Cal. Method: MX5154

Standard Data

Lot #	Description	Conc.
VOA-1197-27	EXT A	100ppm
34	B	
50	C	
46	Acrolein	100ppm
33	Acrolein	

Standard Data

Lot #	Description	Conc.
VOA-1197-17	A	100ppm
23	B	
43	C	
49	INT ONLY	250/250ppm
	SURR STD	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: 11/29/11

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
	~~4D~~ 11/28														
	X121112	BFB											9z	1:26pm	
	121113	@11/28 IC5154-0.5											9z	0.5µl "A+B+C+AC+SURR"	/100FV
	121114	IC5154-1											9z	1µl " A+B+C+SURR "	+200µl AC/100FV
	121115	IC5154-2											9z	2µl " ↓ "	+100µl AC/100FV
	121116	IC5154-5											9z	5µl "A+B+C+AC"	+7.5µl SURR/100FV
	121117	IC5154-10											9z	5µl "A+B+C+AC+SURR	/50FV"
	121118	IC5154-20											9z	10µl "A+B+C+AC"	+25µl SURR/50FV
	121119	IC5154-50											9z	25µl " ↓ " +SURR	"/50FV
	121120	IC5154-100											9z	50µl "A+B+C+AC+SURR" @11/29/11	/50FV"
	121121	IC5154-200												100µl " ↓	"/50FV"
	121122	IB											clo		
	121123	IB											clo		
	X121124	ICV5154-50											9z	25µl EXT (A+B+C+AC)+SURR	/50FV

[signature] 11/29/11

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

orm: OR001-9
ev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VX5173/VX5174

Print Analyst Name: TaMika Ginn

Analyst Signature: [signature]

Date: 12/09/11

Columns: ZB624 (60M 0.25mm x 1.4µm)

Method: V8260

Initial Cal. Method: MX5154

Standard Data

Lot #	Description	Conc.
VOA-192-61	EXT A	100ppm
65	B	
70	C	
46	Acrolein	1000ppm
64	Acrolein	

Standard Data

Lot #	Description	Conc.
VOA-192-66	A	100ppm
69	B	
67	C	
48	IS	250/2500ppm

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: 12/12/11

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
	X121546	BFB											ok	8:53am	
	121547	CC5154-20											NG	Acetone 10µl A+B+GAC/520V	
	121548	CC5154-20											ok		
	121549	MB2											ok		
	121550	BS2											ok		
	121551	IB											clo		
	121552	JA93421-11	22397 TCL11	SB	1		5.0						ok		
	121553	CC5154-20											ok		
	121554	MB											ok		
	121555	BS											ok		
	121556	JA93445-17		SO	1		1.0						NOT OSED		
	121557	JA93445-17			1		5.0						ok		
	121558	JA93445-17 MS			1		4.5						ok		
	121559	JA93445-17 MSD			1		4.5						ok		
	121560	IB											clo		
R	121561	JA93962-5	22326 TCL11	SC	1		5.0						ok		
R	121562	JA93200-1A		SC	5		5.4						ok		
R	X121563	JA93204-1	22303 NAPTCL11 TBA	SC	5		4.7						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

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6.7.4 6

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX5174

Print Analyst Name: TAMIKA GINN

Analyst Signature: [signature]

Date: 12/09/11

Columns: ZB624

Method V8260

Initial Cal. Method MX5154

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg. 193	

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: 12/12/11

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	X121564	JA93569-9	22487 NWTPCLIMO/TPH	SCL	5		5.5				/		92		
	~~12/9/11~~	JA93508-6	22507 NWTPCLIMO TPH	SCL									NOT RAN		
	~~12/9/11~~	JA93508-7	↓	↓									↓		
	X121565	JA93701-16 ~~JA93576~~	22569 TCLIP	SCL	5		5.8				/		92		
	X121566	JA93968-2	22716 SL3	SCL	6		5.3				/		92		
	X121567	JA93968-4	↓	↓	5		5.0				/		92		
	X121568	JA93968-5	↓	↓	5		5.9				/		92	8:46 pM	

12/12/11

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: VX5173/VX5174

Print Analyst Name: TaMika Ginn

Analyst Signature: (TG)

Date: 12/09/11

Columns: ZB624 (60M 0.25mm x 1.4µm)

Method: V8260

Initial Cal. Method: MX5154

Standard Data

Lot #	Description	Conc.
VOA-197-61	EXT A	100ppm
65	B	
70	C	
46	Acrolein	1000ppm
64	Acrolein	

Standard Data

Lot #	Description	Conc.
VOA-197-66	A	100ppm
69	B	
67	C	
48	I/S	250/2500ppm

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: 12/12/11

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
	X121546	BFB											ok	9:53AM	
	121547	CC5154-20											NG	Acetone 10ppb 4BrC4H4Cl/500V	
	121548	CC5154-20											ok		
	121549	MB2											ok		
	121550	BS2											ok		
	121551	IB											clo		
	121552	JA93421-11	22397 TCL11	S/B	1		5.0						ok		
	121553	CC5154-20											ok		
	121554	MB											ok		
	121555	BS											ok		
	121556	JA93445-17		SO	1		1.0						NOT OSED		
	121557	JA93445-17			1		5.0						ok		
	121558	JA93445-17MS			1		4.5						ok		
	121559	JA93445-17MSD			1		4.5						ok		
	121560	IB											clo		
R	121561	JA93962-5	22326 TCL14	SC	1		5.0						ok		
	121562	JA93200-1A		SC	5		5.4						ok		
R	X121563	JA93204-1	22303 NAPCLHNO TOA	SC	5		4.7						ok		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX5174

Print Analyst Name: TAMIKA GINN

Analyst Signature: [signature]

Date: 12/09/11

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg. 193	

Columns: ZB624

Method V8260

Initial Cal. Method MX5154

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: 12/12/11

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	X121564	JA93569-9	22487 NWTCLIMO/TBA	S	5		5.5				/		ok		
	12/9/11	JA93508-6	22507 NWTCLIMO	S									NOT Ran		
	12/9/11	JA93508-7	↓	↓									↓		
	X121565	JA93701-16 ~~JA93576~~	22569 TCLIP	S	5		5.8				/		ok		
	X121566	JA93968-2	22716 SL3	S	6		5.3				/		ok		
	X121567	JA93968-4	↓	↓	5		5.0				/		ok		
	X121568	JA93968-5	↓	↓	5		5.9				/		ok	8:46 pM	

12/07/11

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: VX5177/VX5178

Print Analyst Name: TATHKGINN

Analyst Signature: [signature]

Date: 12/12/11

Columns: 2B624 (60m x 0.25mm x 1.4µm)

Method: V8260

Initial Cal. Method: MX5154

Standard Data

Lot #	Description	Conc.
V011-1197-61	EXT A	100ppm
65	B	
70	C	
46	Acrolein	1000ppm
64	Acrolein	

Standard Data

Lot #	Description	Conc.
V011-1199-66	A	100ppm
69	B	
67	C	
48	I/S	250/2500ppm

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: 12/13/11

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
	X121638	BFB											ok	8:52AM	
	121639	CCS154-20											ok		
	121640	IB											clo		
	121641	MB2											ok		
	121642	BS2											ok		
	121643 IB		22502	S									clo		
	121644	JA93657-5 MS	TCLH40	L	4	4	5.3						ok		
	121645	JA93657-5 dup	↓	↓	5	5	8/12/13 5.3						ok		
	121646	~~IB~~ 8/12/12 MB											ok		
	121647	BS											ok		
R	121648	JA94019-5	22755 STAR	S O	1		4.6 8/12/12						ok		
	121649	JA93968-3	22716 SL3	S L	6		4.8						ok		
	121650	JA93968-6	↓	↓	6		5.4						ok		
	121651	JA94019-5 MS	22755 STAR	S O	1		4.6						ok		
	121652	JA94019-5 MSD	↓	↓	1		4.6						ok		
R	121653	JA93576-7	22489 BTX	S L	3		5.6						ok	ok SMF (b)	
	121654	IB											clo		
R	X121655	JA93657-40	22502 TCLH40	S L	5		5.2						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: VX5178

Date: 12/12/11

Print Analyst Name: TAMIKA GINN

Analyst Signature: [signature]

Columns: 28024

Method: V8260

Initial Cal. Method: MX5154

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg. 209	

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: 12/13/11

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
RX	121656	JA93657-41	22502 TCLHIO	S	5		6.0						ok		
	121657	JA93657-42			6		6.2						ok		
	121658	JA93657-43			5		5.2						ok		
	121659 60	JA93657-44			6		5.4						~~NOT~~ RGN 12/13		
	121660	JA93508-6	22507 NITCLHIO TBA	S	3		5.7						ok		
	121661 2 12/13	JA93508-7			3		4.9						RN	out 1373 9:08 pm ~~8:39 pm~~	
	X121662	IB											ok	12/13	

12/12/11

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

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Rev. Date: 2/14/2007

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New Jersey
ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3918-MB1	GH85749.D	1	12/09/11	XPL	n/a	n/a	GGH3918

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA93968-1, JA93968-2, JA93968-3, JA93968-4, JA93968-5, JA93968-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	38	ug/kg	
67-56-1	Methanol	ND	200	51	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	88%	58-137%
111-27-3	Hexanol	85%	58-137%

Blank Spike Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3918-BS	GH85750.D	1	12/09/11	XPL	n/a	n/a	GGH3918

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA93968-1, JA93968-2, JA93968-3, JA93968-4, JA93968-5, JA93968-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-63-0	Isopropyl Alcohol	5000	4280	86	73-126
67-56-1	Methanol	5000	5230	105	76-128

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	83%	58-137%
111-27-3	Hexanol	86%	58-137%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA93968-1MS	GH85757.D	1	12/09/11	XPL	n/a	n/a	GGH3918
JA93968-1MSD	GH85758.D	1	12/09/11	XPL	n/a	n/a	GGH3918
JA93968-1	GH85751.D	1	12/09/11	XPL	n/a	n/a	GGH3918

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA93968-1, JA93968-2, JA93968-3, JA93968-4, JA93968-5, JA93968-6

CAS No.	Compound	JA93968-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-63-0	Isopropyl Alcohol	1150		5560	6120	89	6110	89	0	58-139/19
67-56-1	Methanol	224		5560	6130	106	6090	106	1	39-160/26

CAS No.	Surrogate Recoveries	MS	MSD	JA93968-1	Limits
111-27-3	Hexanol	74%	78%	58%	58-137%
111-27-3	Hexanol	75%	77%	60%	58-137%

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA93968-1	**Injection Date:**	12/09/11
Lab File ID:	GH85751.D	**Injection Time:**	10:36
Client ID:	P-1 (0.5-1.5)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1	1.29	1.28	1320		ug/kg	13.8
Isopropyl Alcohol	2 [a]	1.72	1.72	1150		ug/kg	
Methanol [b]	1 [a]	0.83	0.82	224		ug/kg	84.4
Methanol [b]	2	1.08	1.08	551		ug/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA93968-5	**Injection Date:**	12/09/11
Lab File ID:	GH85755.D	**Injection Time:**	11:41
Client ID:	P-6 (0-1)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Methanol [a]	1 [b]	0.83	0.82	415		ug/kg	56.6
Methanol [a]	2	1.09	1.08	743		ug/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA93968-6	**Injection Date:**	12/09/11
Lab File ID:	GH85756.D	**Injection Time:**	11:55
Client ID:	P-7 (0-1)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Methanol	1 [a]	0.82	0.82	252		ug/kg	30.6
Methanol	2	1.08	1.08	343		ug/kg	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	GGH3918-BS	**Injection Date:**	12/09/11
Lab File ID:	GH85750.D	**Injection Time:**	10:07
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1	1.29	1.28	5160		ug/kg	18.6
Isopropyl Alcohol	2 [a]	1.72	1.72	4280		ug/kg	
Methanol	1 [a]	0.82	0.82	5230		ug/kg	1.7
Methanol	2	1.08	1.08	5320		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA93968-1MS	**Injection Date:**	12/09/11
Lab File ID:	GH85757.D	**Injection Time:**	12:39
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1	1.29	1.28	6940		ug/kg	12.6
Isopropyl Alcohol	2 [a]	1.72	1.72	6120		ug/kg	
Methanol	1 [a]	0.82	0.82	6130		ug/kg	4.2
Methanol	2	1.08	1.08	6390		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA93968-1MSD	**Injection Date:**	12/09/11
Lab File ID:	GH85758.D	**Injection Time:**	12:53
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1	1.28	1.28	6900		ug/kg	12.1
Isopropyl Alcohol	2 [a]	1.72	1.72	6110		ug/kg	
Methanol	1 [a]	0.82	0.82	6090		ug/kg	6.1
Methanol	2	1.09	1.08	6470		ug/kg	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015 (DAI) **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JA93968-1	GH85751.D	58.0	60.0
JA93968-2	GH85752.D	72.0	74.0
JA93968-3	GH85753.D	77.0	77.0
JA93968-4	GH85754.D	71.0	73.0
JA93968-5	GH85755.D	76.0	77.0
JA93968-6	GH85756.D	77.0	75.0
GGH3918-BS	GH85750.D	83.0	86.0
GGH3918-MB1	GH85749.D	88.0	85.0
JA93968-1MS	GH85757.D	74.0	75.0
JA93968-1MSD	GH85758.D	78.0	77.0

Surrogate Compounds	Recovery Limits
S1 = Hexanol	58-137%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3918-CC3898	**Injection Date:**	12/09/11
Lab File ID:	GH85748.D	**Injection Time:**	09:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.18	5.61

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH3918-MB1	GH85749.D	12/09/11	09:52	5.18	5.61
GGH3918-BS	GH85750.D	12/09/11	10:07	5.18	5.61
JA93968-1	GH85751.D	12/09/11	10:36	5.19	5.61
JA93968-2	GH85752.D	12/09/11	10:57	5.19	5.61
JA93968-3	GH85753.D	12/09/11	11:12	5.18	5.61
JA93968-4	GH85754.D	12/09/11	11:26	5.18	5.61
JA93968-5	GH85755.D	12/09/11	11:41	5.18	5.61
JA93968-6	GH85756.D	12/09/11	11:55	5.18	5.61
JA93968-1MS	GH85757.D	12/09/11	12:39	5.18	5.61
JA93968-1MSD	GH85758.D	12/09/11	12:53	5.18	5.61

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH3898-ICC3898
Lab FileID: GH85332.D

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 12:21:55 2011
Response via : Initial Calibration

Calibration Files
0.5 =GH85330.D 1 =GH85331.D 5 =GH85332.D 10 =GH85336.D
50 =GH85334.D 100 =GH85335.D 0.1 =GH85329.D =

Compound	0.5	1	5	10	50	100	0.1	Avg	%RSD
1) Methanol	1.390	1.311	1.231	1.212	1.324	1.289	1.394	1.307 E1	5.39
2) Ethanol	1.869	1.898	1.697	1.711	1.885	1.844	2.061	1.852 E1	6.66
3) Tert-Butyl A	2.783	2.805	2.494	2.521	2.779	2.725	2.314	2.632 E1	7.20
4) 1-Propanol	2.370	2.407	2.105	2.138	2.370	2.328	2.257	2.282 E1	5.25
5) 2-Propanol	2.045	2.030	1.803	1.815	1.981	1.945	2.517	2.019 E1	11.86
6) Propionitril									
7) Isobutanol	2.674	2.764	2.521	2.543	2.801	2.734	2.695	2.676 E1	4.00
8) 1-Butanol	2.636	2.705	2.356	2.438	2.674	2.602	2.481	2.556 E1	5.16
9) 2-Butanol	2.439	2.445	2.164	2.200	2.437	2.392	2.096	2.310 E1	6.53
10) Hexanol	3.559	3.617	3.750	3.634	3.707	3.685		3.659 E1	1.88

Signal #2

1) Methanol	7.561	7.477	7.511	8.582	7.887	8.315	7.023	7.765	6.90
2) Ethanol	1.176	1.298	1.266	1.427	1.429	1.483	1.355	1.348 E1	8.00
3) Tert-Butyl A	1.869	1.985	1.830	1.845	2.399	2.259	1.889	2.011 E1	11.27
4) 1-Propanol	1.365	2.086	1.645	1.578	1.979	1.793	3.675	2.017 E1	38.20
5) 2-Propanol	1.289	1.495	1.323	1.394	1.627	1.619	1.266	1.430 E1	10.61
6) Propionitril								0.0	
7) Isobutanol	1.836	2.157	1.988	2.018	2.391	2.149	2.036	2.082 E1	8.35
8) 1-Butanol	1.753	1.801	1.727	1.792	2.040	2.048	2.017	1.883 E1	7.70
9) 2-Butanol	1.547	1.417	1.574	1.609	1.917	1.797	1.190	1.579 E1	15.11
10) Hexanol	3.100	3.030	3.111	3.089	3.019	3.187		3.089 E1	1.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

MGH3898.M Fri Nov 11 12:25:22 2011 GCGH

Initial Calibration Verification

Job Number: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH3898-ICV3898
Lab FileID: GH85338.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH85338.D\FID1A.CH          Vial: 95
Acq On    : 11 Nov 2011  11:59 am                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85338.D\FID2B.CH          Vial: 95
Acq On    : 11 Nov 2011  12:15 pm                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:21:55 2011
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	13.073	12.628	3.4	103	0.00	0.79- 0.85
2	Ethanol	18.521	17.674	4.6	104	0.00	1.03- 1.09
3	Tert-Butyl Alcohol	26.316	26.052	1.0	104	0.00	1.43- 1.49
4	1-Propanol	22.821	22.427	1.7	107	0.00	1.85- 1.91
5	2-Propanol	20.194	18.682	7.5	104	0.00	1.24- 1.30
6	Propionitrile		----------NA----------				
7	Isobutanol	26.760	26.436	1.2	105	0.00	2.75- 2.81
8	1-Butanol	25.561	25.093	1.8	107	0.00	3.22- 3.28
9	2-Butanol	23.105	22.973	0.6	106	0.00	2.33- 2.39
10 S	Hexanol	36.588	36.738	-0.4	98	0.00	5.16- 5.22

***** Signal #2 *****

1	Methanol	7.765	8.557	-10.2	114	0.00	1.05- 1.11
2	Ethanol	13.480	12.673	6.0	100	0.00	1.36- 1.42
3	Tert-Butyl Alcohol	20.107	19.258	4.2	105	0.00	1.97- 2.03
4	1-Propanol	20.172	16.526	18.1#	100	0.00	2.37- 2.43
5	2-Propanol	14.304	13.525	5.4	102	0.00	1.68- 1.74
6	Propionitrile		----------NA----------				
7	Isobutanol	20.821	19.422	6.7	98	0.00	3.30- 3.36
8	1-Butanol	18.826	18.533	1.6	107	0.00	3.76- 3.82
9	2-Butanol	15.788	16.992	-7.6	108	0.00	2.94- 3.00
10 S	Hexanol	30.893	30.345	1.8	98	0.00	5.70- 5.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH85332.D MGH3898.M Fri Nov 11 13:30:52 2011 GCGH

Continuing Calibration Summary

Job Number: JA93968 **Sample:** GGH3918-CC3898
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH85748.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH85748.D\FID1A.CH          Vial: 92
Acq On    :  9 Dec 2011   9:38 am                    Operator: XULIU
Sample    : CC3898-5000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85748.D\FID2B.CH          Vial: 92
Acq On    :  9 Dec 2011   9:52 am                    Operator: XULIU
Sample    : CC3898-5000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	13.073	13.454	-2.9	109	0.00	0.79- 0.85
2	Ethanol	18.521	18.417	0.6	109	0.00	1.03- 1.09
3	Tert-Butyl Alcohol	26.316	26.657	-1.3	107	0.00	1.45- 1.51
4	1-Propanol	22.821	22.715	0.5	108	0.01	1.87- 1.93
5	2-Propanol	20.194	19.553	3.2	108	0.00	1.25- 1.31
6	Propionitrile		----------NA----------				
7	Isobutanol	26.760	26.639	0.5	106	0.00	2.76- 2.82
8	1-Butanol	25.561	25.566	-0.0	109	-0.01	3.20- 3.26
9	2-Butanol	23.105	22.804	1.3	105	0.01	2.34- 2.40
10 S	Hexanol	36.588	32.048	12.4	85	0.00	5.15- 5.21

***** Signal #2 *****

1	Methanol	7.765	8.000	-3.0	107	0.00	1.05- 1.11
2	Ethanol	13.480	11.908	11.7	94	0.01	1.37- 1.43
3	Tert-Butyl Alcohol	20.107	18.085	10.1	99	0.01	1.99- 2.05
4	1-Propanol	20.172	14.423	28.5#	88	0.00	2.39- 2.45
5	2-Propanol	14.304	12.595	11.9	95	0.01	1.69- 1.75
6	Propionitrile		----------NA----------				
7	Isobutanol	20.821	17.099	17.9#	86	0.02	3.33- 3.39
8	1-Butanol	18.826	16.201	13.9	94	0.02	3.78- 3.84
9	2-Butanol	15.788	15.080	4.5	96	0.01	2.96- 3.02
10 S	Hexanol	30.893	28.836	6.7	93	0.00	5.58- 5.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH85332.D MGH3898.M Fri Dec 09 11:58:22 2011 GCGH

Continuing Calibration Summary

Job Number: JA93968 **Sample:** GGH3918-CC3898
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH85759.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH85759.D\FID1A.CH          Vial: 90
Acq On    :  9 Dec 2011   1:08 pm                    Operator: XULIU
Sample    : CC3898-10000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                    Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85759.D\FID2B.CH          Vial: 90
Acq On    :  9 Dec 2011   1:22 pm                    Operator: XULIU
Sample    : CC3898-10000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                    Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	13.073	13.420	-2.7	111	0.00	0.79- 0.85
2	Ethanol	18.521	18.892	-2.0	110	0.00	1.04- 1.10
3	Tert-Butyl Alcohol	26.316	28.510	-8.3	113	0.01	1.45- 1.51
4	1-Propanol	22.821	23.328	-2.2	109	0.01	1.87- 1.93
5	2-Propanol	20.194	20.314	-0.6	112	0.00	1.25- 1.31
6	Propionitrile		----------NA----------				
7	Isobutanol	26.760	27.367	-2.3	108	0.00	2.76- 2.82
8	1-Butanol	25.561	26.547	-3.9	109	-0.01	3.20- 3.26
9	2-Butanol	23.105	23.870	-3.3	108	0.01	2.34- 2.40
10 S	Hexanol	36.588	40.797	-11.5	112	0.00	5.15- 5.21

***** Signal #2 *****

1	Methanol	7.765	8.482	-9.2	99	0.00	1.05- 1.11
2	Ethanol	13.480	12.046	10.6	84	0.00	1.37- 1.43
3	Tert-Butyl Alcohol	20.107	18.250	9.2	99	0.00	1.99- 2.05
4	1-Propanol	20.172	15.339	24.0#	97	0.00	2.38- 2.44
5	2-Propanol	14.304	13.013	9.0	93	0.00	1.69- 1.75
6	Propionitrile		----------NA----------				
7	Isobutanol	20.821	18.450	11.4	91	0.01	3.32- 3.38
8	1-Butanol	18.826	17.882	5.0	100	0.01	3.77- 3.83
9	2-Butanol	15.788	16.328	-3.4	102	0.00	2.96- 3.02
10 S	Hexanol	30.893	33.517	-8.5	109	0.00	5.58- 5.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH85336.D MGH3898.M Fri Dec 09 15:30:59 2011 GCGH

New Jersey

ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85751.D\FID1A.CH          Vial: 1
Acq On    :  9 Dec 2011  10:36 am                    Operator: XULIU
Sample    : JA93968-1                                Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85751.D\FID2B.CH          Vial: 1
Acq On    :  9 Dec 2011  10:57 am                    Operator: XULIU
Sample    : JA93968-1                                Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:12 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.61	106634	93098	2914.434	3013.570
Spiked Amount	5000.000			Recovery	=	58.29%	60.27%
	Target Compounds						
1)	Methanol	0.83	1.08	2635	3851	201.578	495.949 #
2)	Ethanol	1.07	1.40	4257	2810	229.825	208.464
5)	2-Propanol	1.29f	1.72	24037	14776	1190.317	1033.040

```
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH85751.D  MGH3898.M      Fri Dec 09 12:12:24 2011      GCGH
```

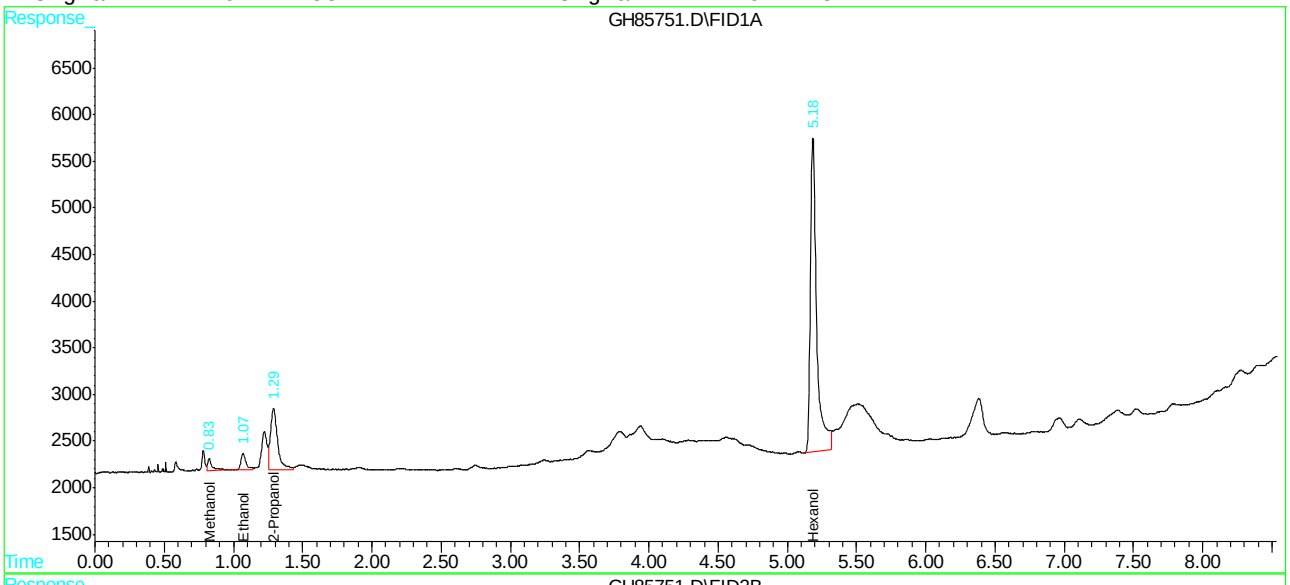
Quantitation Report (QT Reviewed)

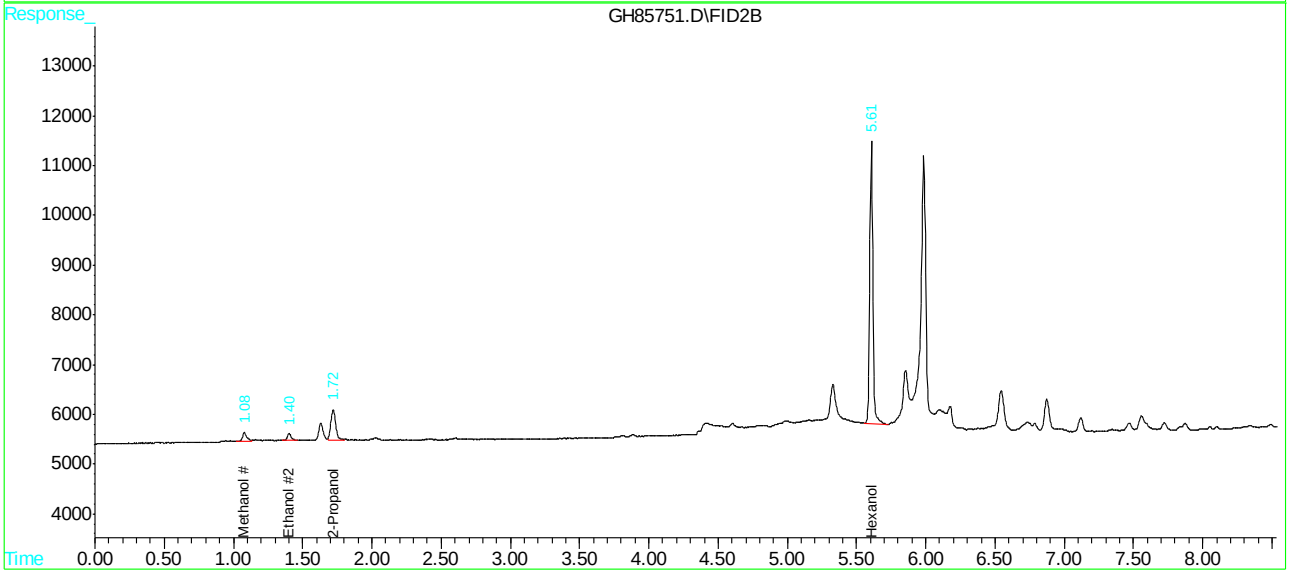
```
Data File : C:\HPCHEM\1\DATA\GH85751.D\FID1A.CH          Vial: 1
Acq On    :  9 Dec 2011  10:36 am                    Operator: XULIU
Sample    : JA93968-1                                Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85751.D\FID2B.CH          Vial: 1
Acq On    :  9 Dec 2011  10:57 am                    Operator: XULIU
Sample    : JA93968-1                                Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:12 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85752.D\FID1A.CH          Vial: 2
Acq On    :  9 Dec 2011  10:57 am                    Operator: XULIU
Sample    : JA93968-2                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85752.D\FID2B.CH          Vial: 2
Acq On    :  9 Dec 2011  11:12 am                    Operator: XULIU
Sample    : JA93968-2                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:12 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.19   5.61    131072   114086 3582.325  3692.931
  Spiked Amount   5000.000                  Recovery     =   71.65%    73.86%

Target Compounds
```

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH85752.D  MGH3898.M      Fri Dec 09 12:12:47 2011      GCGH
```

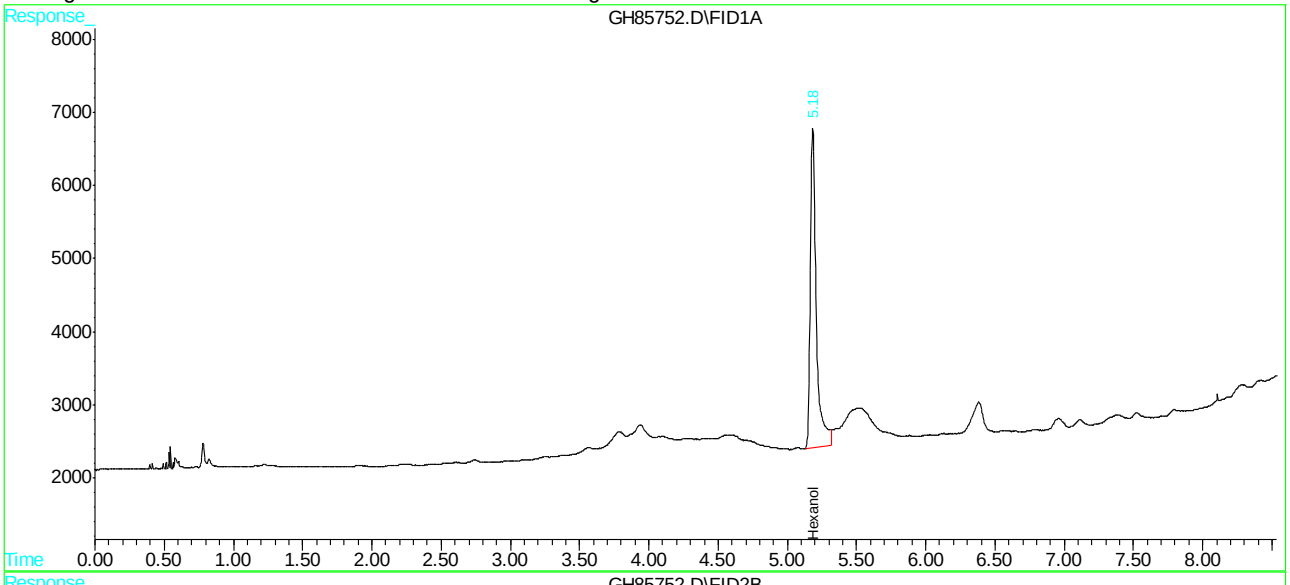
Quantitation Report (QT Reviewed)

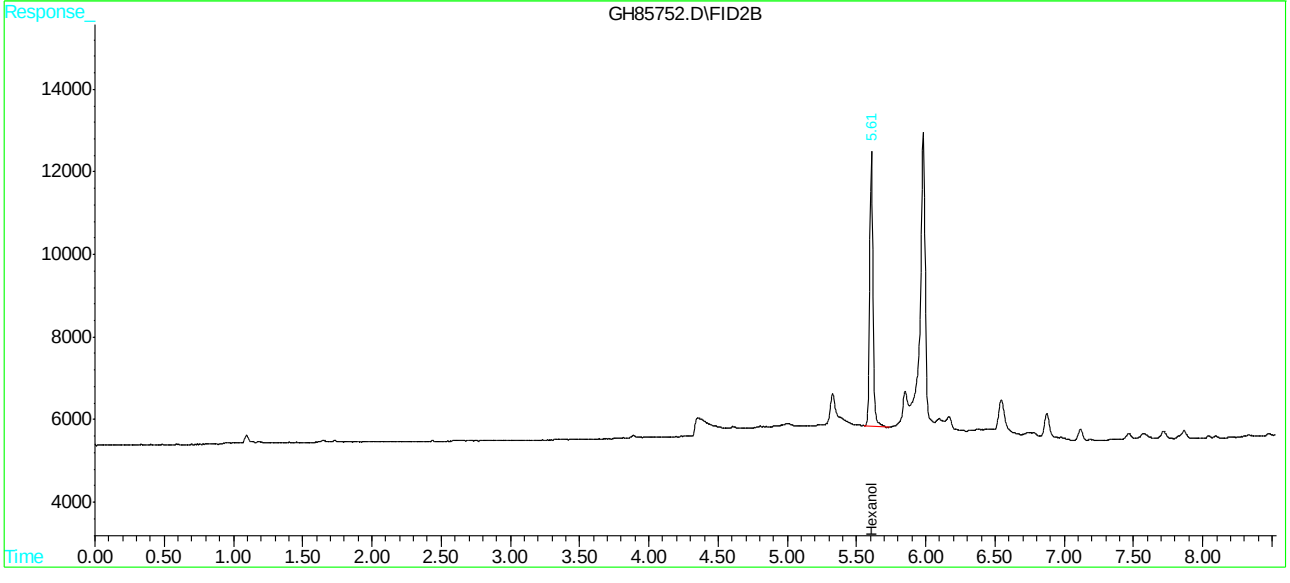
```
Data File : C:\HPCHEM\1\DATA\GH85752.D\FID1A.CH          Vial: 2
Acq On    :  9 Dec 2011  10:57 am                    Operator: XULIU
Sample    : JA93968-2                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85752.D\FID2B.CH          Vial: 2
Acq On    :  9 Dec 2011  11:12 am                    Operator: XULIU
Sample    : JA93968-2                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:12 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





```
                              Quantitation Report    (QT Reviewed)

       Data File : C:\HPCHEM\1\DATA\GH85753.D\FID1A.CH          Vial: 3
       Acq On    :  9 Dec 2011  11:12 am                    Operator: XULIU
       Sample    : JA93968-3                                Inst    : GCGH
       Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
       IntFile   : autoint1.e

       Data File : C:\HPCHEM\1\DATA\GH85753.D\FID2B.CH          Vial: 3
       Acq On    :  9 Dec 2011  11:26 am                    Operator: XULIU
       Sample    : JA93968-3                                Inst    : GCGH
       Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
       IntFile   : AUTOINT3.E
       Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

       Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
       Title        : METHOD SW846-8015B (DAI)
       Last Update  : Wed Nov 30 17:22:02 2011
       Response via : Initial Calibration
       DataAcq Meth : MGH3898.M

       Volume Inj.     : 2ul
       Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
       Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

        Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
     ---------------------------------------------------------------------------

     System Monitoring Compounds
 10) S   Hexanol           5.18   5.61    141249   118661 3860.484  3841.028
   Spiked Amount   5000.000                  Recovery     =   77.21%    76.82%

     Target Compounds
```

```
   ---------------------------------------------------------------------------
   (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
   GH85753.D  MGH3898.M      Fri Dec 09 12:13:14 2011      GCGH
```

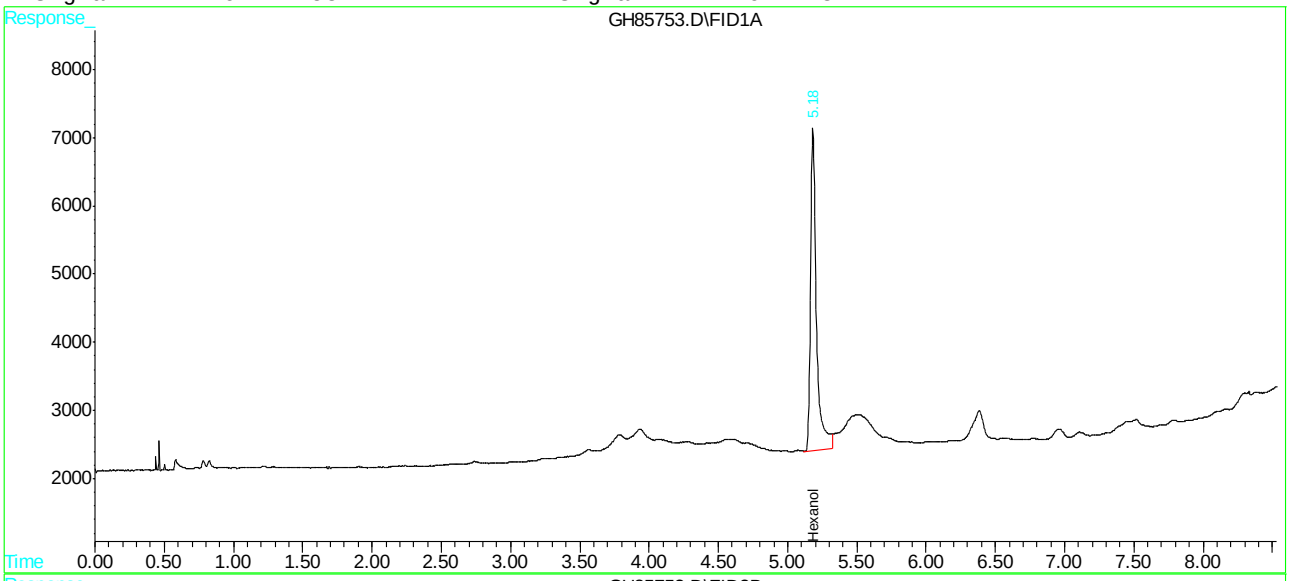
Quantitation Report (QT Reviewed)

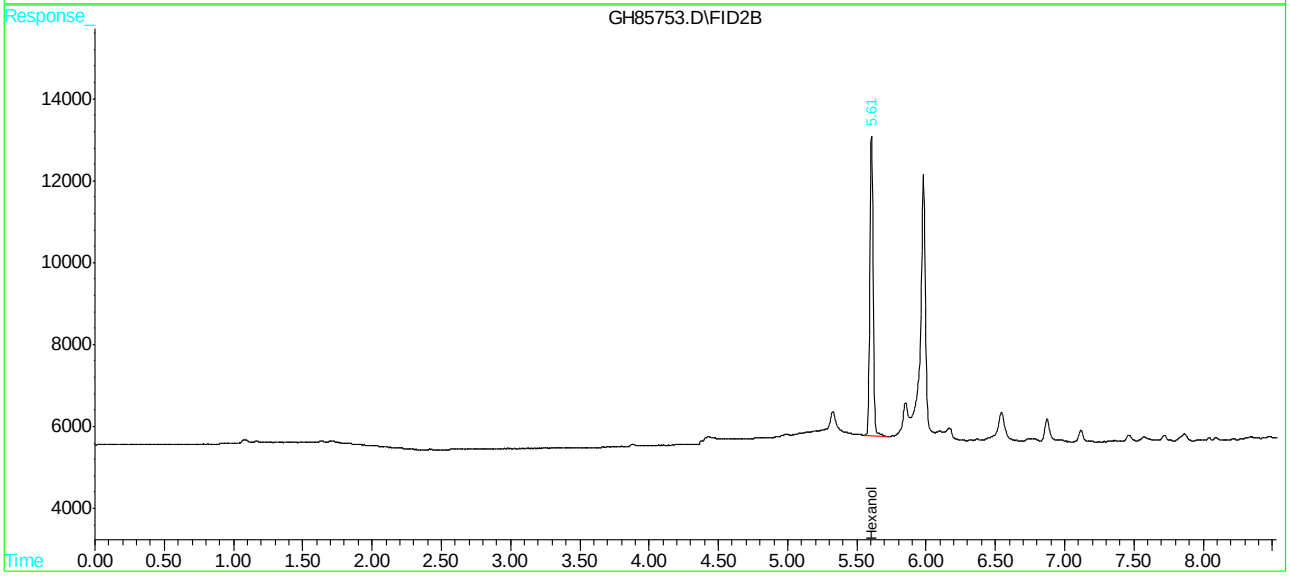
```
Data File : C:\HPCHEM\1\DATA\GH85753.D\FID1A.CH          Vial: 3
Acq On    :  9 Dec 2011  11:12 am                    Operator: XULIU
Sample    : JA93968-3                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85753.D\FID2B.CH          Vial: 3
Acq On    :  9 Dec 2011  11:26 am                    Operator: XULIU
Sample    : JA93968-3                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





```
                              Quantitation Report    (QT Reviewed)

       Data File : C:\HPCHEM\1\DATA\GH85754.D\FID1A.CH          Vial: 4
       Acq On    :  9 Dec 2011  11:26 am                    Operator: XULIU
       Sample    : JA93968-4                                Inst    : GCGH
       Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
       IntFile   : autoint1.e

       Data File : C:\HPCHEM\1\DATA\GH85754.D\FID2B.CH          Vial: 4
       Acq On    :  9 Dec 2011  11:41 am                    Operator: XULIU
       Sample    : JA93968-4                                Inst    : GCGH
       Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
       IntFile   : AUTOINT3.E
       Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

       Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
       Title        : METHOD SW846-8015B (DAI)
       Last Update  : Wed Nov 30 17:22:02 2011
       Response via : Initial Calibration
       DataAcq Meth : MGH3898.M

       Volume Inj.     : 2ul
       Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
       Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

        Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
     ---------------------------------------------------------------------------

     System Monitoring Compounds
 10) S   Hexanol           5.18   5.61    130496   112498 3566.593  3641.519
   Spiked Amount   5000.000                  Recovery     =   71.33%    72.83%

     Target Compounds


   ---------------------------------------------------------------------------
   (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
   GH85754.D  MGH3898.M      Fri Dec 09 12:13:34 2011      GCGH
```

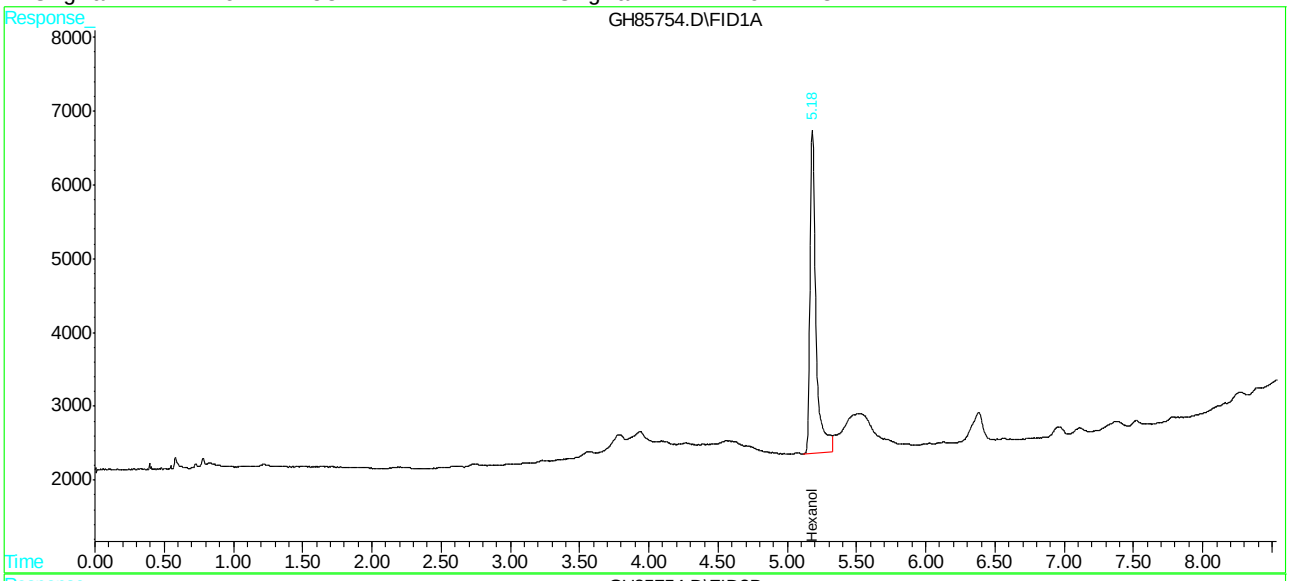
Quantitation Report (QT Reviewed)

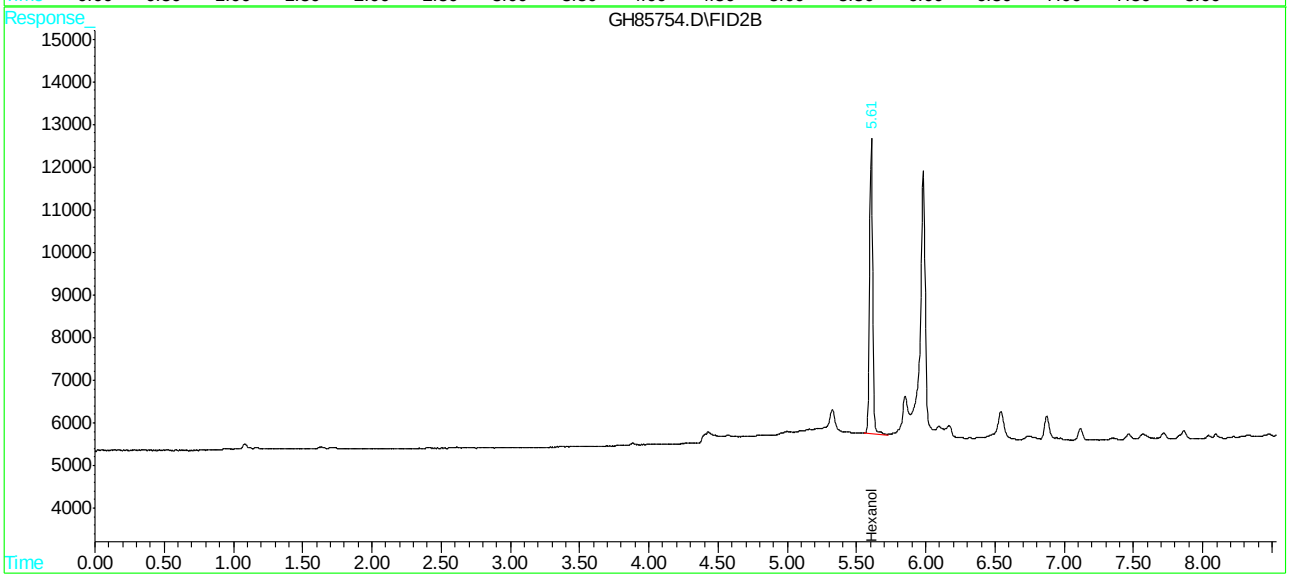
```
Data File : C:\HPCHEM\1\DATA\GH85754.D\FID1A.CH          Vial: 4
Acq On    :  9 Dec 2011  11:26 am                    Operator: XULIU
Sample    : JA93968-4                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85754.D\FID2B.CH          Vial: 4
Acq On    :  9 Dec 2011  11:41 am                    Operator: XULIU
Sample    : JA93968-4                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85755.D\FID1A.CH          Vial: 5
Acq On    :  9 Dec 2011  11:41 am                    Operator: XULIU
Sample    : JA93968-5                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85755.D\FID2B.CH          Vial: 5
Acq On    :  9 Dec 2011  11:55 am                    Operator: XULIU
Sample    : JA93968-5                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.18   5.61    139937   119496 3824.622  3868.057
  Spiked Amount   5000.000                  Recovery     =   76.49%    77.36%

Target Compounds
 1)     Methanol          0.83   1.09      4470     4757  341.909   612.634 #
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH85755.D MGH3898.M Fri Dec 09 12:13:52 2011 GCGH

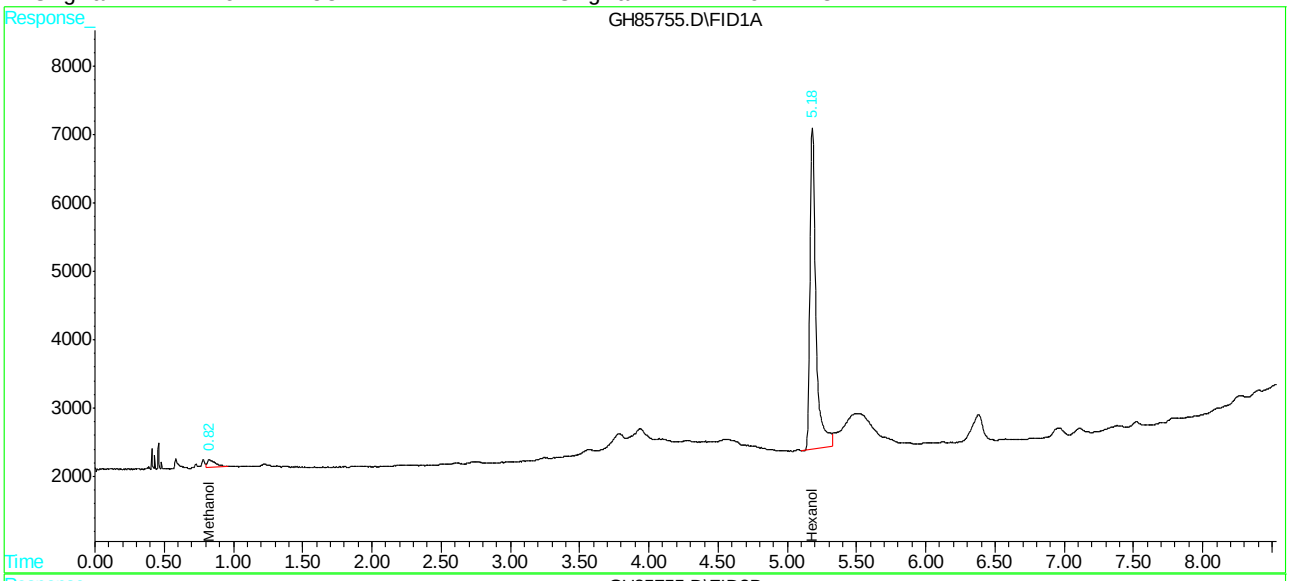
Quantitation Report (QT Reviewed)

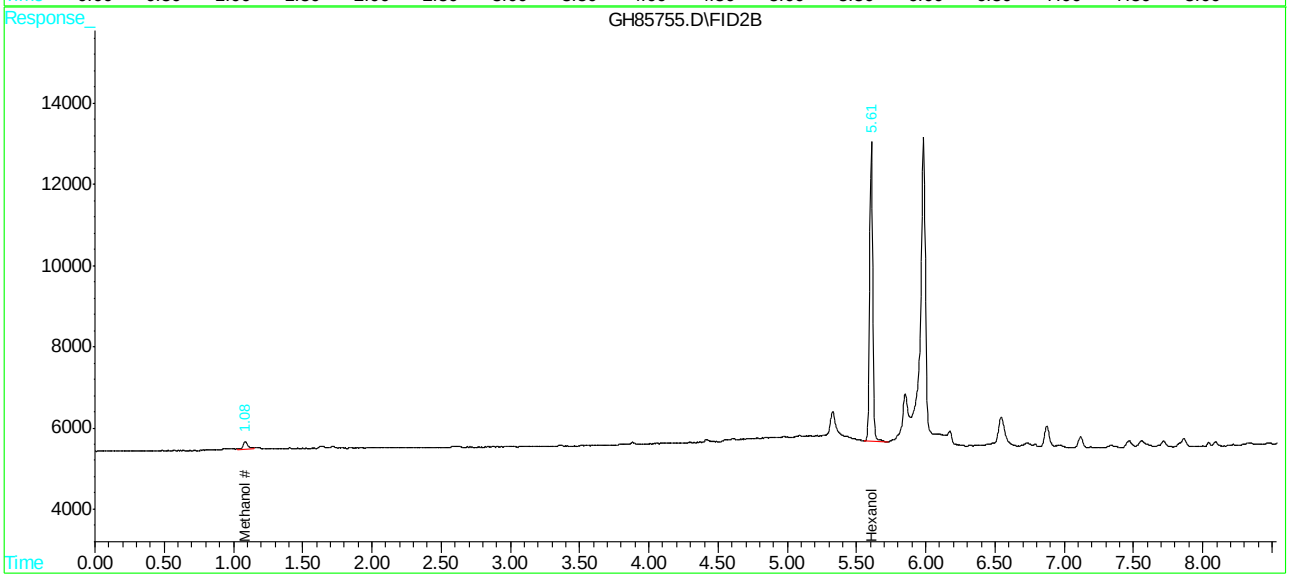
```
Data File : C:\HPCHEM\1\DATA\GH85755.D\FID1A.CH          Vial: 5
Acq On    :  9 Dec 2011  11:41 am                    Operator: XULIU
Sample    : JA93968-5                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85755.D\FID2B.CH          Vial: 5
Acq On    :  9 Dec 2011  11:55 am                    Operator: XULIU
Sample    : JA93968-5                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:13 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85756.D\FID1A.CH          Vial: 6
Acq On    :  9 Dec 2011  11:55 am                    Operator: XULIU
Sample    : JA93968-6                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85756.D\FID2B.CH          Vial: 6
Acq On    :  9 Dec 2011  12:12 pm                    Operator: XULIU
Sample    : JA93968-6                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:21 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.18   5.61    140318   115839 3835.035  3749.691
  Spiked Amount   5000.000                  Recovery     =   76.70%    74.99%

Target Compounds
 1)     Methanol          0.82   1.08      2785     2251  213.004   289.902
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH85756.D MGH3898.M Fri Dec 09 12:21:15 2011 GCGH

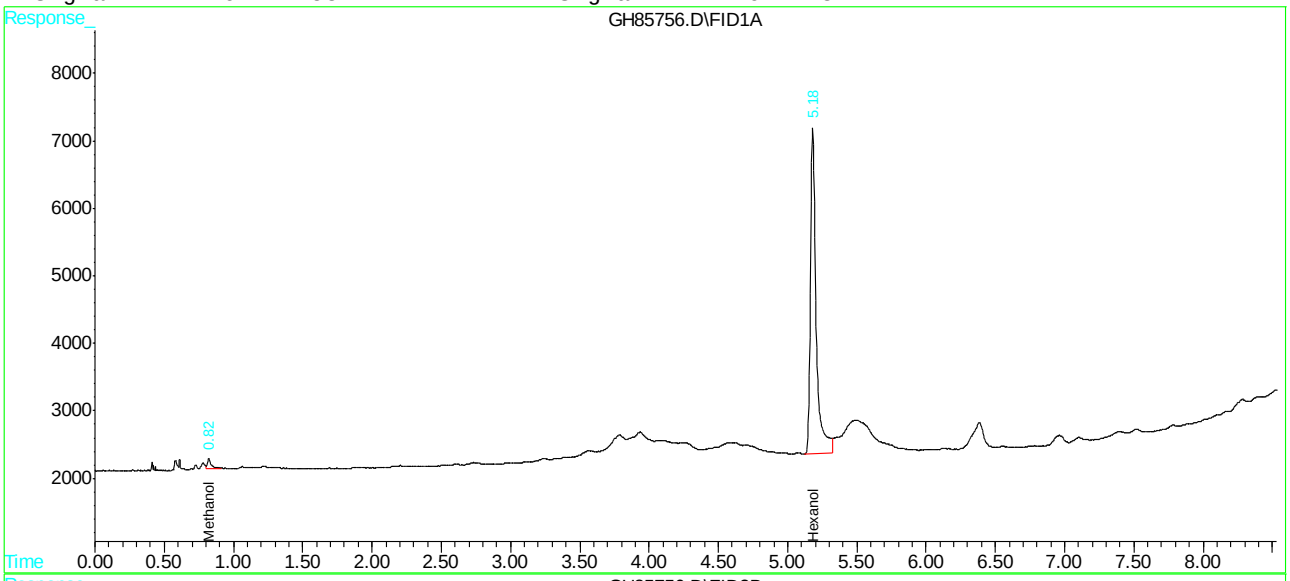
Quantitation Report (QT Reviewed)

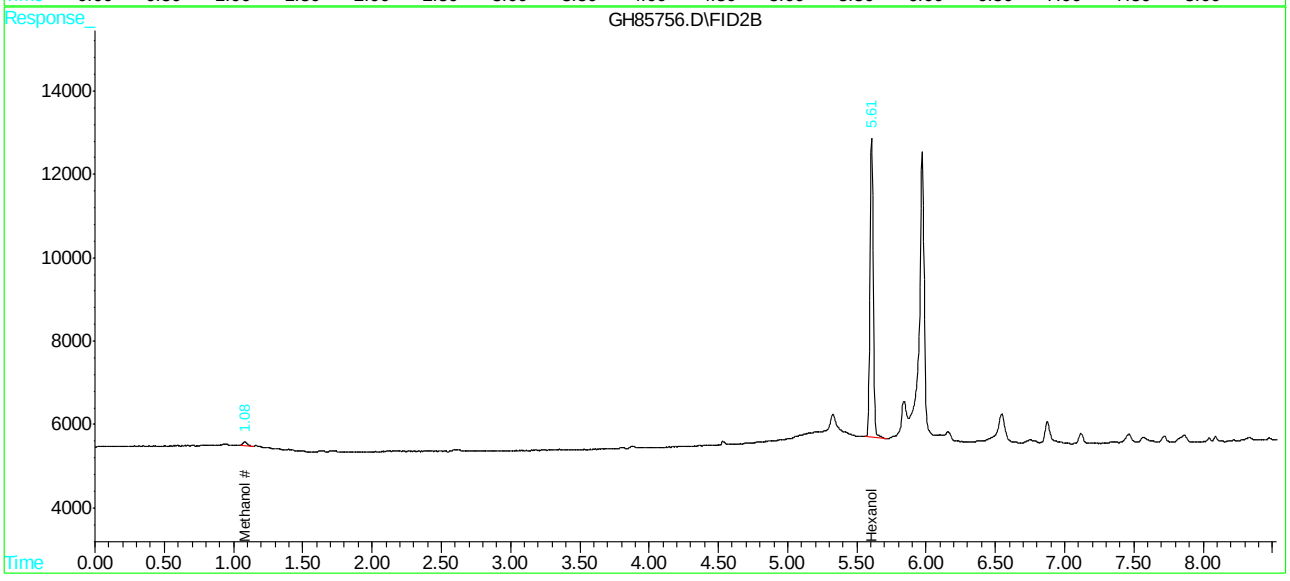
```
Data File : C:\HPCHEM\1\DATA\GH85756.D\FID1A.CH          Vial: 6
Acq On    :  9 Dec 2011  11:55 am                    Operator: XULIU
Sample    : JA93968-6                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85756.D\FID2B.CH          Vial: 6
Acq On    :  9 Dec 2011  12:12 pm                    Operator: XULIU
Sample    : JA93968-6                                Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 12:21 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85749.D\FID1A.CH          Vial: 93
Acq On    :  9 Dec 2011   9:52 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85749.D\FID2B.CH          Vial: 93
Acq On    :  9 Dec 2011  10:07 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 11:47 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.18   5.61    160388   131845 4383.565  4267.781
  Spiked Amount   5000.000                  Recovery     =   87.67%    85.36%

Target Compounds
```

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH85749.D  MGH3898.M      Fri Dec 09 12:01:41 2011      GCGH
```

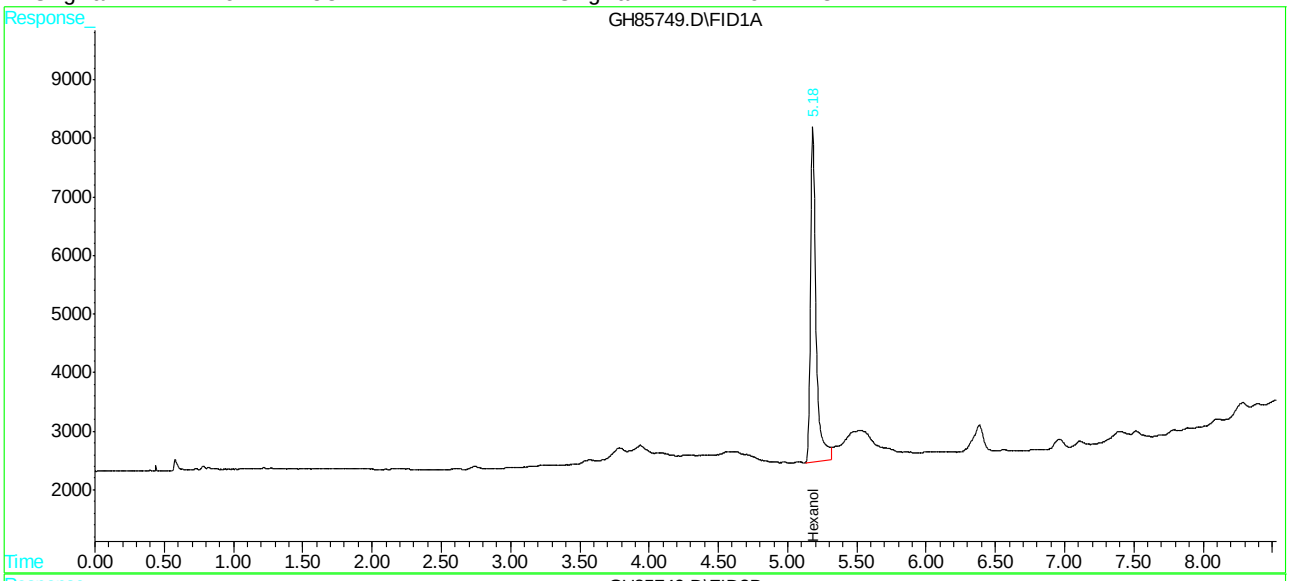
Quantitation Report (QT Reviewed)

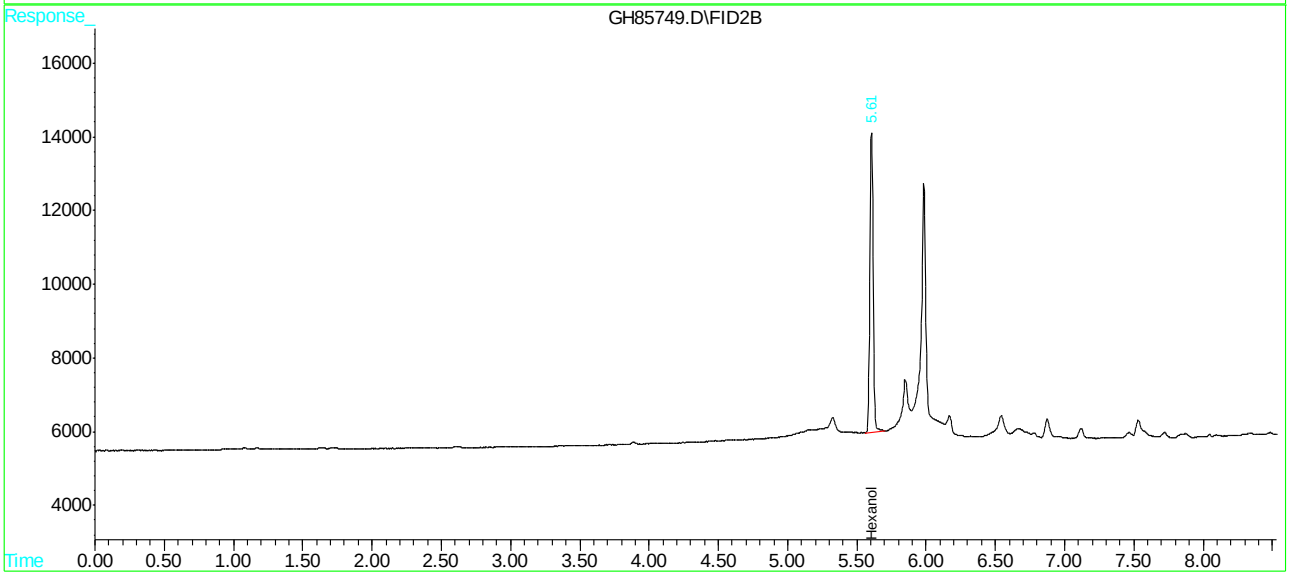
Data File : C:\HPCHEM\1\DATA\GH85749.D\FID1A.CH Vial: 93
Acq On : 9 Dec 2011 9:52 am Operator: XULIU
Sample : MB1 Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85749.D\FID2B.CH Vial: 93
Acq On : 9 Dec 2011 10:07 am Operator: XULIU
Sample : MB1 Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Dec 9 11:47 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85750.D\FID1A.CH          Vial: 94
Acq On    :  9 Dec 2011  10:07 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85750.D\FID2B.CH          Vial: 94
Acq On    :  9 Dec 2011  10:21 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 11:58 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.18	5.61	152164	132224	4158.795	4280.060
	Spiked Amount 5000.000			Recovery	=	83.18%	85.60%
	Target Compounds						
1)	Methanol	0.82	1.08	68424	41288	5234.118	5317.093
2)	Ethanol	1.07	1.40	94559	58220	5105.473	4318.957
3)	Tert-Butyl Alcoh	1.48	2.02	141411	89245	5373.637	4438.468
4)	1-Propanol	1.91f	2.42	117260	74203	5138.332	3678.448
5)	2-Propanol	1.29	1.72	104134	61288	5156.795	4284.748
7)	Isobutanol	2.79	3.36f	141770	93513	5297.802	4491.211
8)	1-Butanol	3.24	3.81f	129266	84365	5057.081	4481.285
9)	2-Butanol	2.38f	2.99	120373	79339	5209.841	5025.305

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

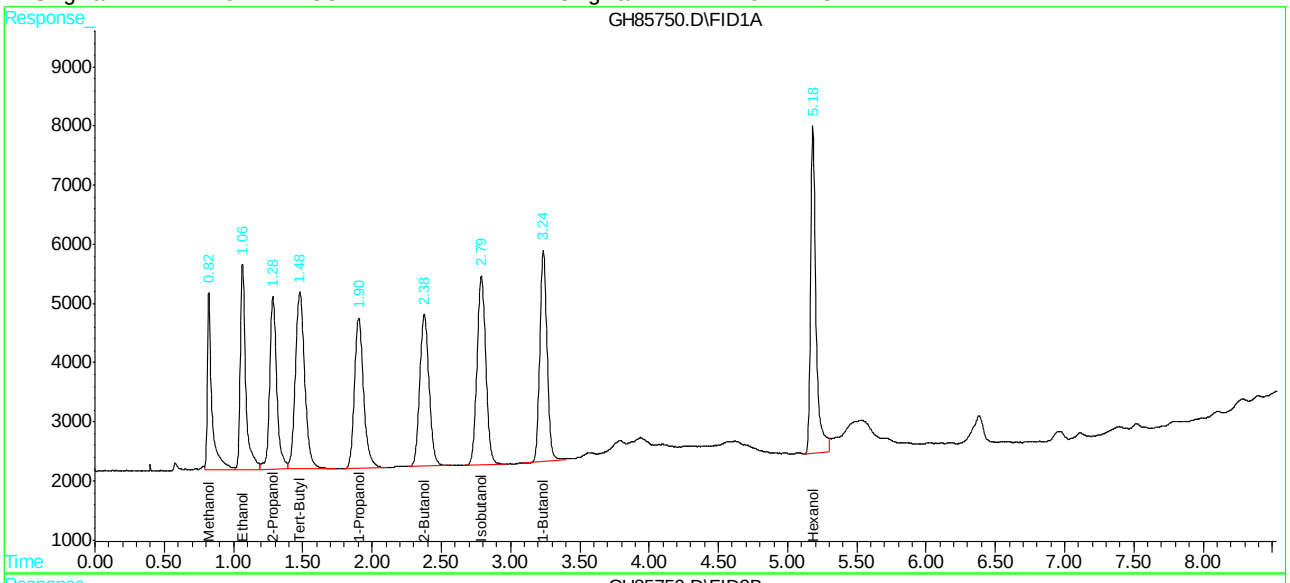
Quantitation Report (QT Reviewed)

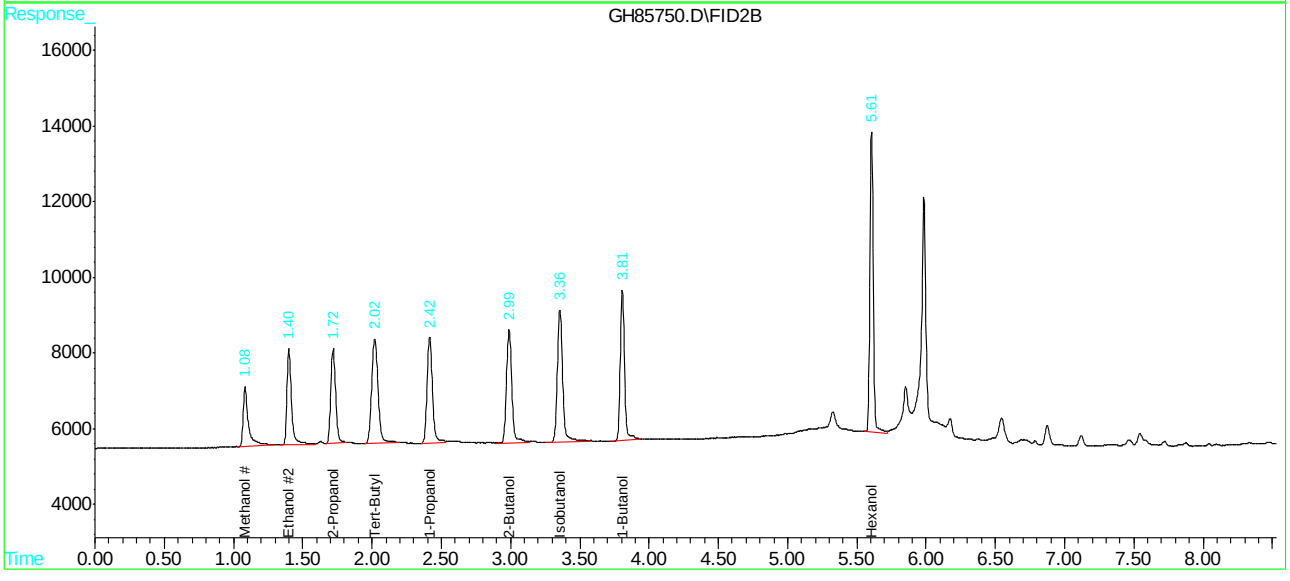
Data File : C:\HPCHEM\1\DATA\GH85750.D\FID1A.CH Vial: 94
Acq On : 9 Dec 2011 10:07 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85750.D\FID2B.CH Vial: 94
Acq On : 9 Dec 2011 10:21 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Dec 9 11:58 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85757.D\FID1A.CH          Vial: 7
Acq On    :  9 Dec 2011  12:39 pm                    Operator: XULIU
Sample    : JA93968-1MS                              Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85757.D\FID2B.CH          Vial: 7
Acq On    :  9 Dec 2011  12:53 pm                    Operator: XULIU
Sample    : JA93968-1MS                              Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 13:08 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.18	5.61	134533	115406	3676.940	3735.653
	Spiked Amount 5000.000			Recovery	=	73.54%	74.71%
	Target Compounds						
1)	Methanol	0.82	1.08	72114	44607	5516.401	5744.457
2)	Ethanol	1.07	1.40	99593	63729	5377.254	4727.623
3)	Tert-Butyl Alcoh	1.48	2.02	156061	96831	5930.344	4815.767
4)	1-Propanol	1.91f	2.41	121655	80491	5330.902	3990.185
5)	2-Propanol	1.29	1.72	126168	78762	6247.923	5506.369
7)	Isobutanol	2.79	3.35	147231	95233	5501.882	4573.849
8)	1-Butanol	3.24	3.81	144144	90249	5639.139	4793.847
9)	2-Butanol	2.38f	2.99	124742	84624	5398.959	5360.082

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

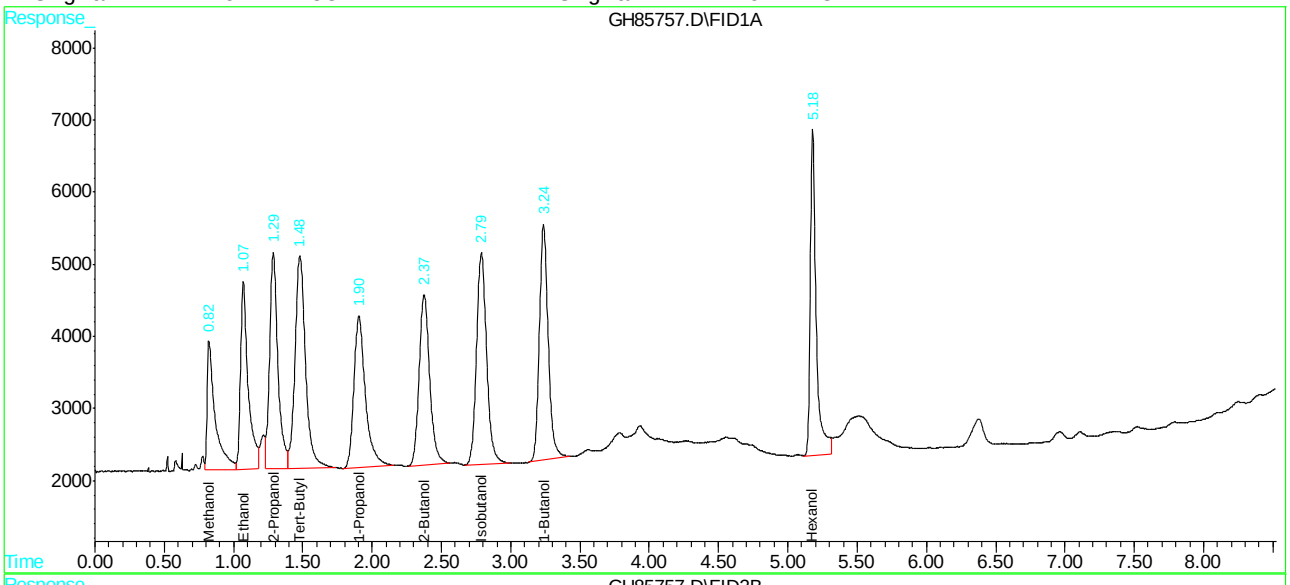
Quantitation Report (QT Reviewed)

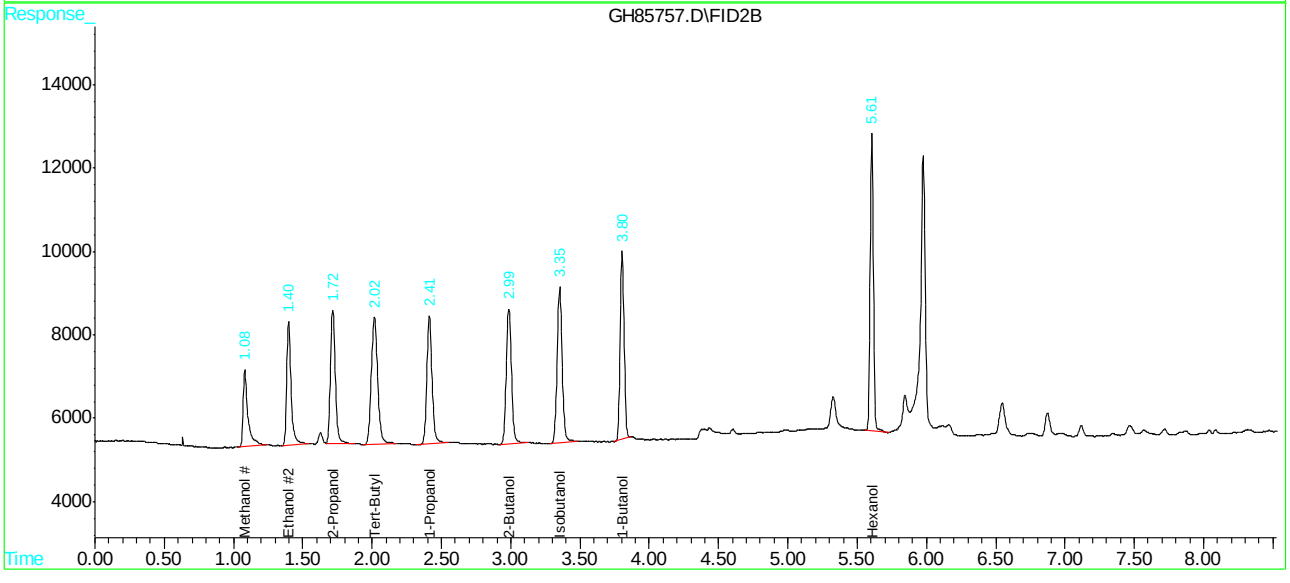
Data File : C:\HPCHEM\1\DATA\GH85757.D\FID1A.CH Vial: 7
Acq On : 9 Dec 2011 12:39 pm Operator: XULIU
Sample : JA93968-1MS Inst : GCGH
Misc : GC37904,GGH3918,5.1,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85757.D\FID2B.CH Vial: 7
Acq On : 9 Dec 2011 12:53 pm Operator: XULIU
Sample : JA93968-1MS Inst : GCGH
Misc : GC37904,GGH3918,5.1,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Dec 9 13:08 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85758.D\FID1A.CH          Vial: 8
Acq On    :  9 Dec 2011  12:53 pm                    Operator: XULIU
Sample    : JA93968-1MSD                             Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85758.D\FID2B.CH          Vial: 8
Acq On    :  9 Dec 2011   1:08 pm                    Operator: XULIU
Sample    : JA93968-1MSD                             Inst    : GCGH
Misc      : GC37904,GGH3918,5.1,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 13:14 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.18	5.61	142625	118461	3898.105	3834.544
	Spiked Amount 5000.000			Recovery	=	77.96%	76.69%
	Target Compounds						
1)	Methanol	0.82	1.09	71621	45215	5478.669	5822.739
2)	Ethanol	1.06	1.40	102225	64189	5519.374	4761.731
3)	Tert-Butyl Alcoh	1.48	2.02	151406	97519	5753.435	4849.980
4)	1-Propanol	1.90	2.42	125087	80809	5481.285	4005.951
5)	2-Propanol	1.28	1.72	125300	78675	6204.963	5500.300
7)	Isobutanol	2.79	3.36f	148767	95551	5559.272	4589.119
8)	1-Butanol	3.23	3.81f	145611	90078	5696.518	4784.733
9)	2-Butanol	2.37	2.99	127776	84595	5530.254	5358.258

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

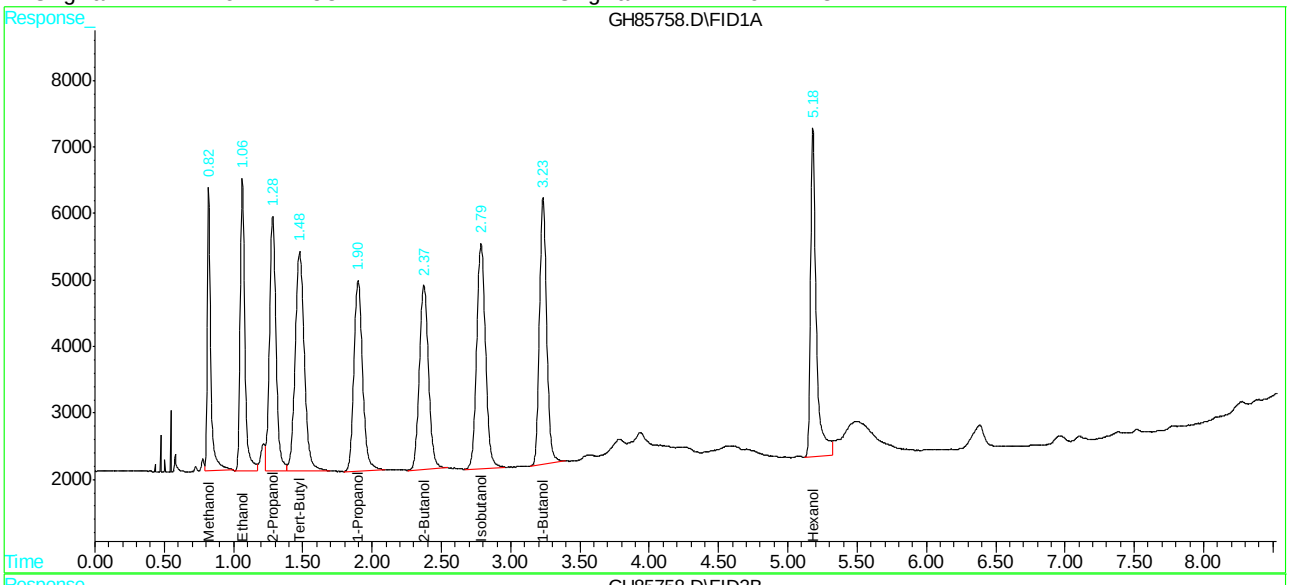
Quantitation Report (QT Reviewed)

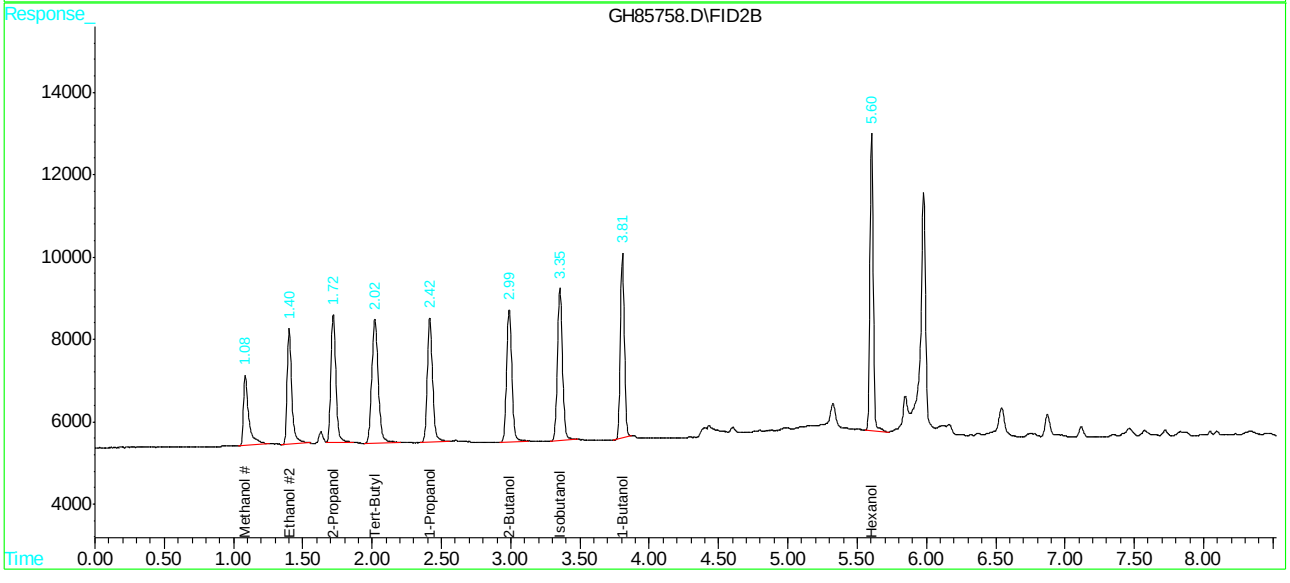
Data File : C:\HPCHEM\1\DATA\GH85758.D\FID1A.CH Vial: 8
Acq On : 9 Dec 2011 12:53 pm Operator: XULIU
Sample : JA93968-1MSD Inst : GCGH
Misc : GC37904,GGH3918,5.1,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85758.D\FID2B.CH Vial: 8
Acq On : 9 Dec 2011 1:08 pm Operator: XULIU
Sample : JA93968-1MSD Inst : GCGH
Misc : GC37904,GGH3918,5.1,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Dec 9 13:14 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/18/11 12:42

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 12:13 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 10:36:04 2011
Response via : Initial Calibration
DataAcq Meth : MGH3897.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.20	5.74	24860	29469	698.736	879.885
	Spiked Amount 5000.000			Recovery	=	13.97%	17.60%
	Target Compounds						
1)	Methanol	0.82	1.07	1394	702	102.508m	94.192m
2)	Ethanol	1.06	1.40	2061	1355	109.423	112.862m
3)	Tert-Butyl Alcoh	1.47	2.01	2314	1889	82.888	98.836
4)	1-Propanol	1.89	2.39f	2257	3675	96.087	166.147 #
5)	2-Propanol	1.27	1.71	2517	1266	116.368	92.394m
7)	Isobutanol	2.78	3.34	2695	2036	97.408	96.917
8)	1-Butanol	3.25	3.79	2481	2017	91.004	104.632
9)	2-Butanol	2.36f	2.98	2096	1190	86.353	72.901

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH85329.D MGH3898.M Fri Nov 11 12:14:35 2011 GCGH

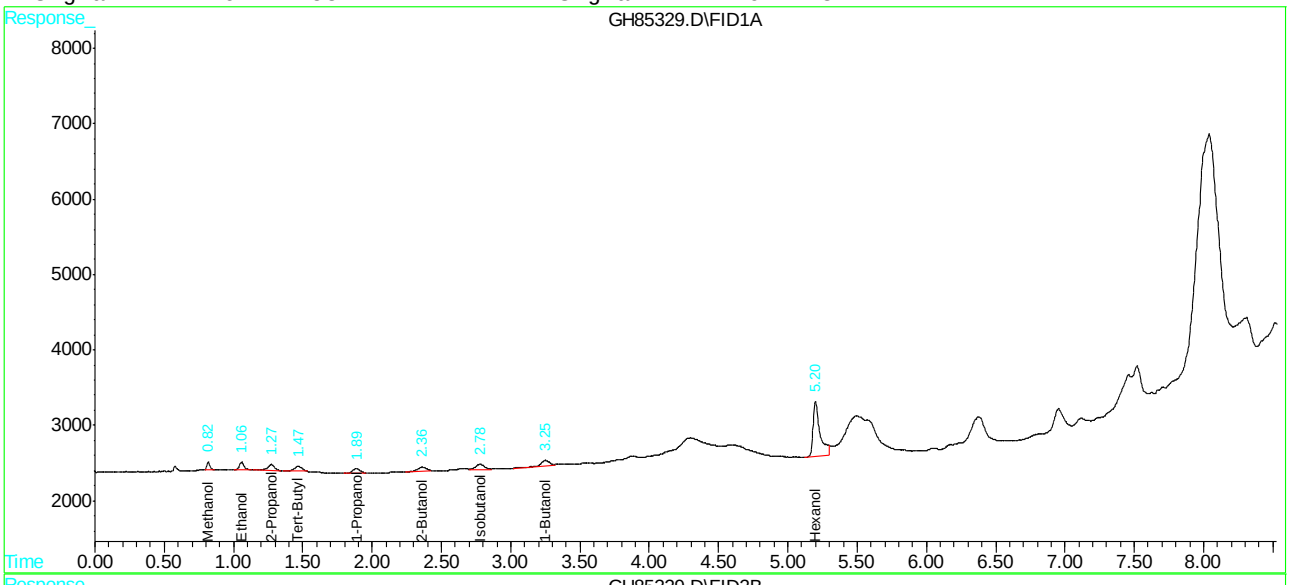
Quantitation Report (QT Reviewed)

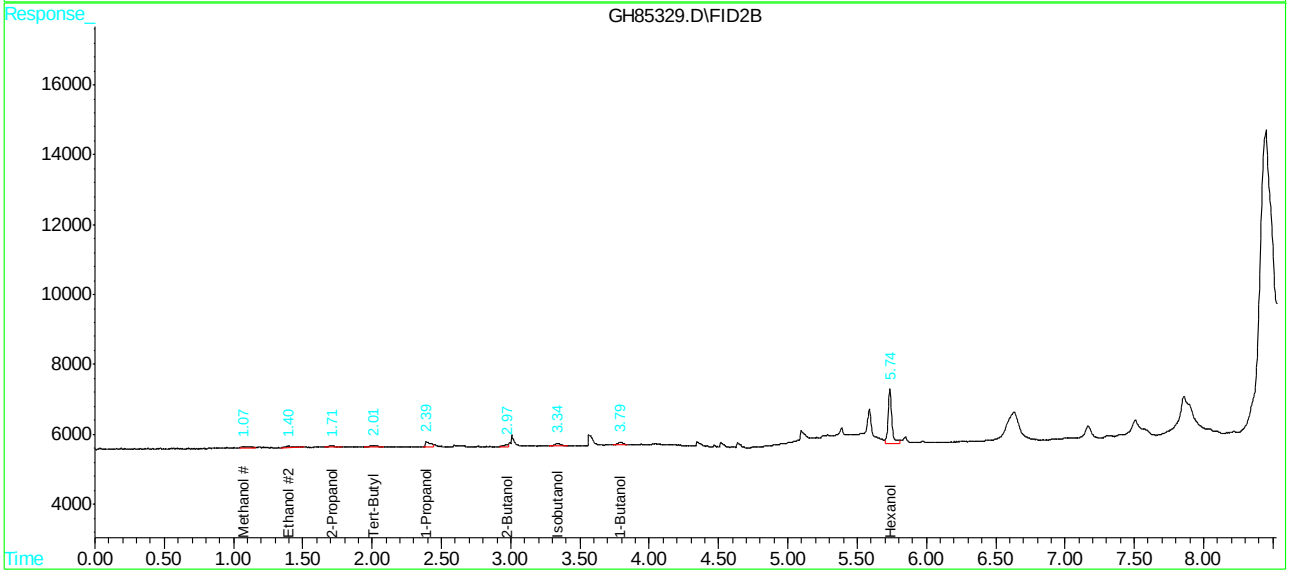
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH Vial: 1
Acq On : 11 Nov 2011 7:57 am Operator: XULIU
Sample : IC3898-100 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH Vial: 1
Acq On : 11 Nov 2011 8:11 am Operator: XULIU
Sample : IC3898-100 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 12:13 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 10:36:04 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3897.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Manual Integration Approval Summary

Sample Number:	GGH3898-IC3898	**Method:**	SW846-8015 (DAI)
Lab FileID:	GH85329.D	**Analyst approved:**	11/11/11 12:46 Xu Liu
Injection Time:	11/11/11 07:57	**Supervisor approved:**	11/18/11 12:42 Kanya Veerawat

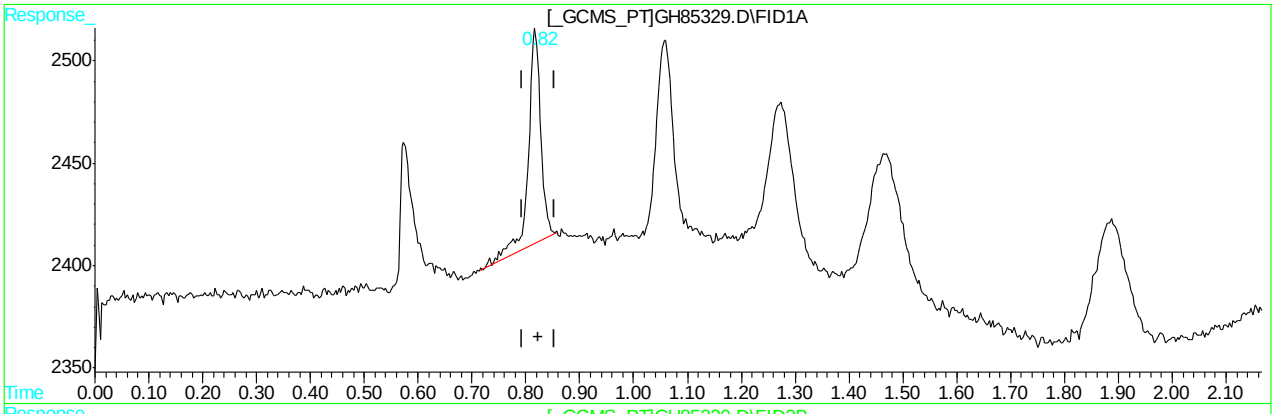
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	1	0.82	Poor instrument integration
Methanol	67-56-1	2	1.07	Poor instrument integration
Ethanol	64-17-5	2	1.40	Poor instrument integration
Isopropyl Alcohol	67-63-0	2	1.71	Poor instrument integration

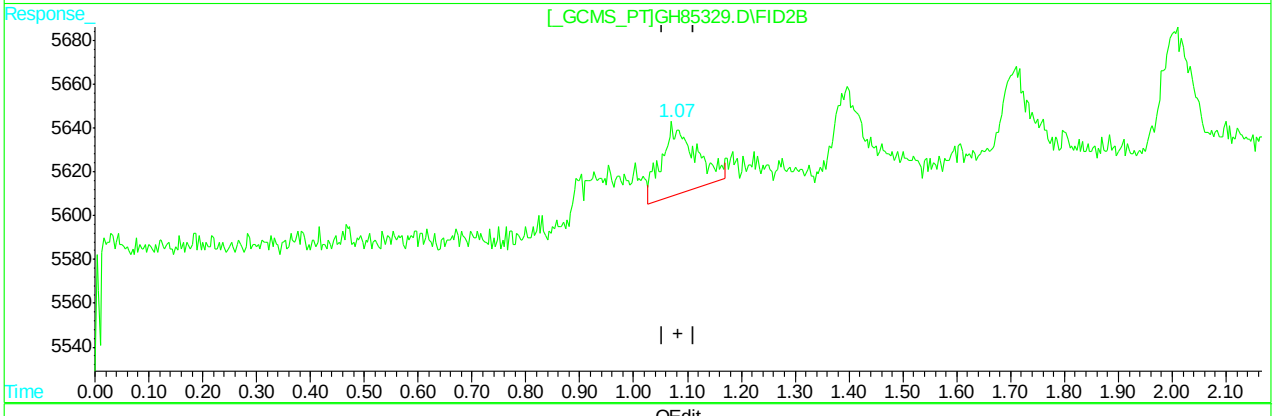
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.82min 120.687PPB

response 1641

(1) Methanol #2

1.07min 188.144PPB

response 1403

(+) = Expected Retention Time

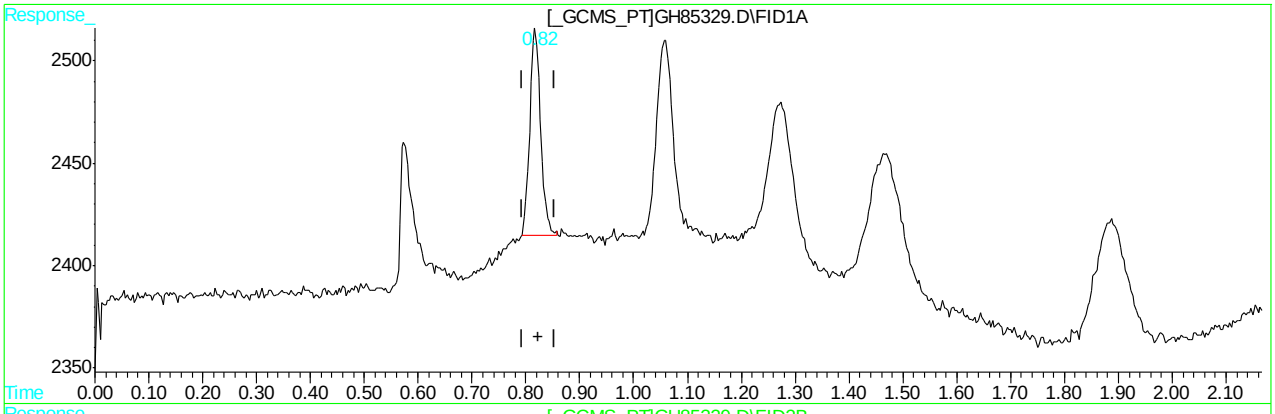
GH85329.D MGH3898.M Fri Nov 11 12:10:16 2011 GCGH

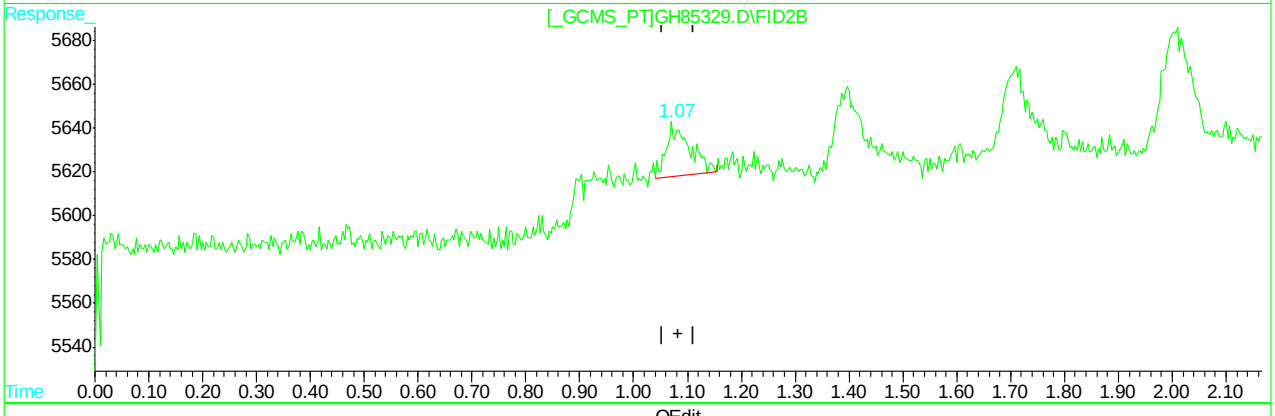
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.82min 102.508PPB m

response 1394

(1) Methanol #2

1.07min 94.192PPB m

response 702

(+) = Expected Retention Time

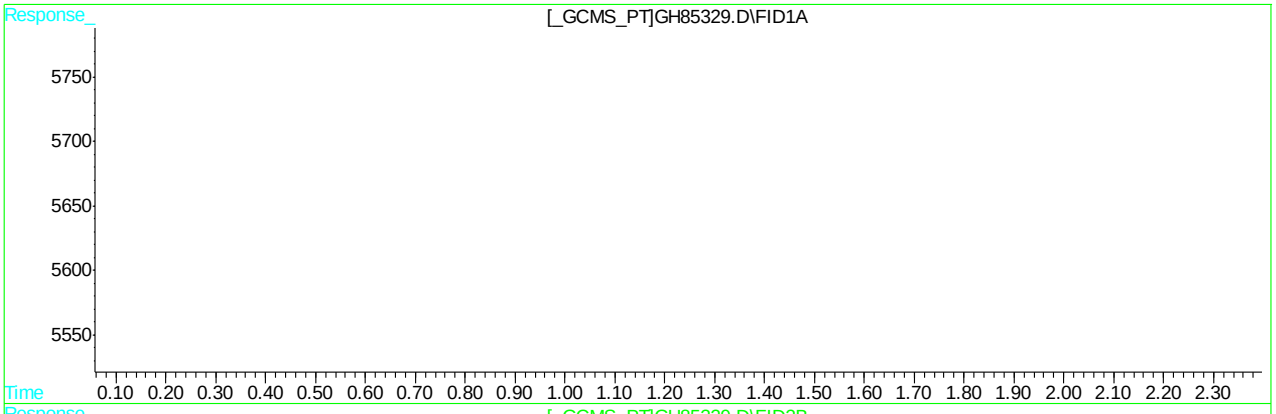
GH85329.D MGH3898.M Fri Nov 11 12:11:22 2011 GCGH

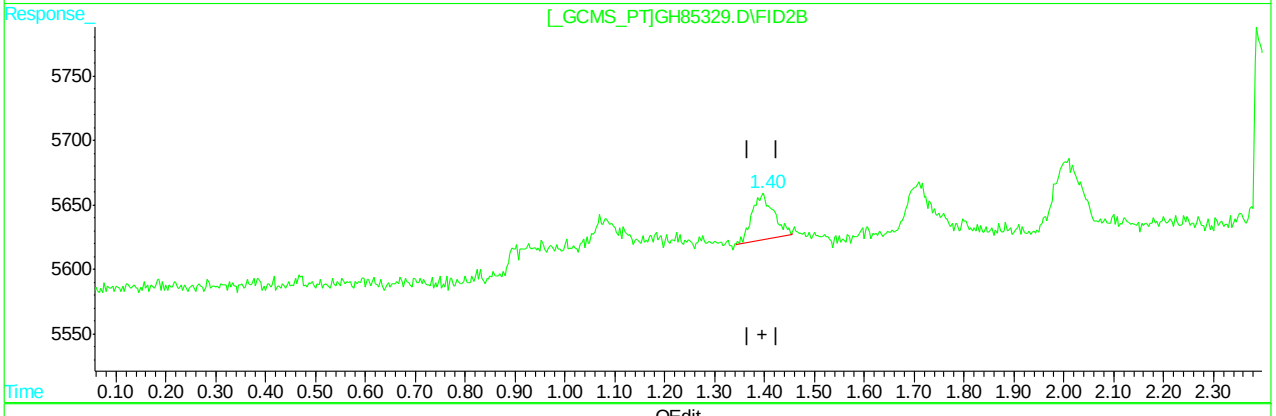
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.06min 109.423PPB

response 2061

(2) Ethanol #2

1.40min 87.563PPB

response 1052

(+) = Expected Retention Time

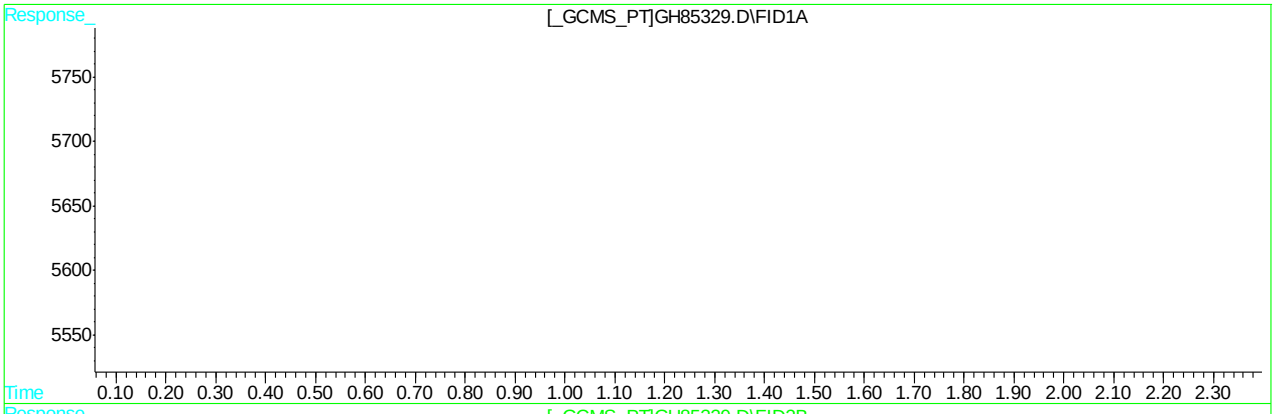
GH85329.D MGH3898.M Fri Nov 11 12:12:02 2011 GCGH

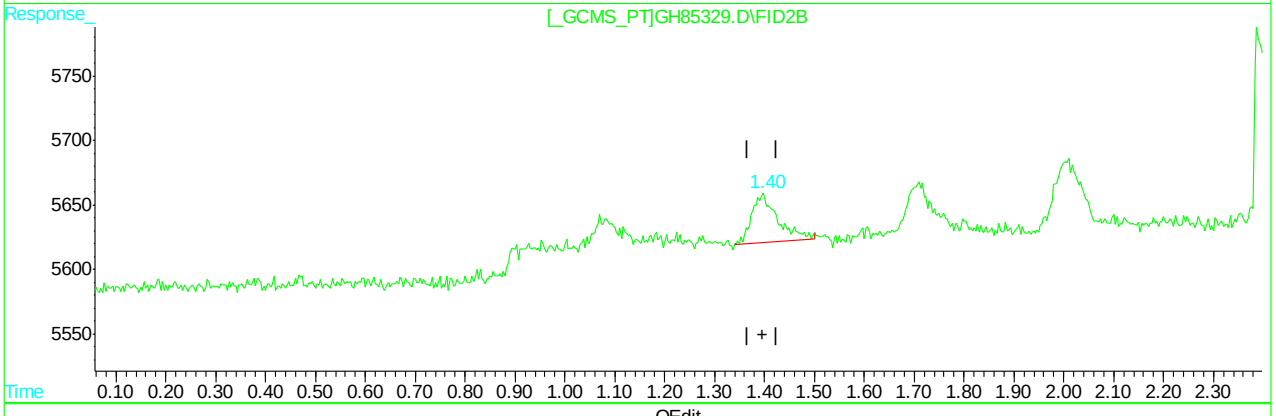
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.06min 109.423PPB

response 2061

(2) Ethanol #2

1.40min 112.862PPB m

response 1355

(+) = Expected Retention Time

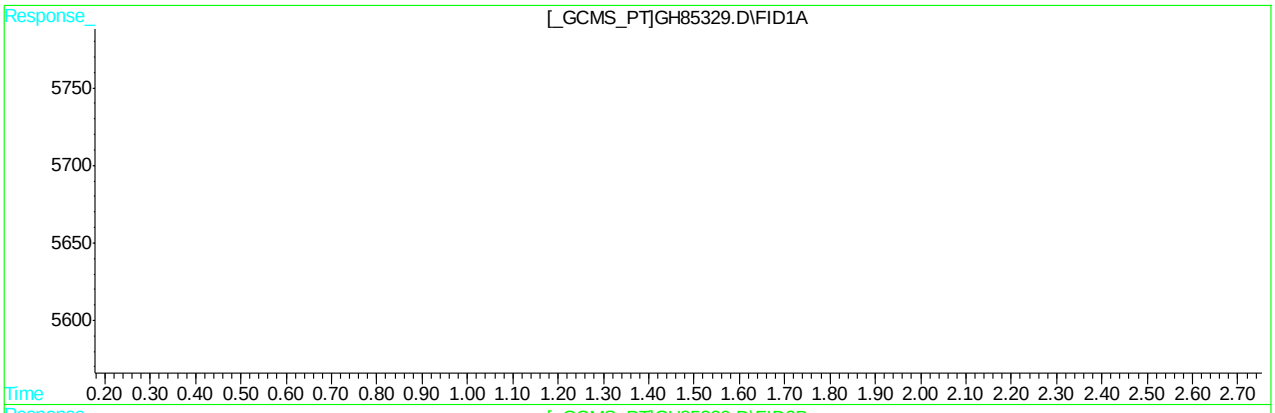
GH85329.D MGH3898.M Fri Nov 11 12:12:17 2011 GCGH

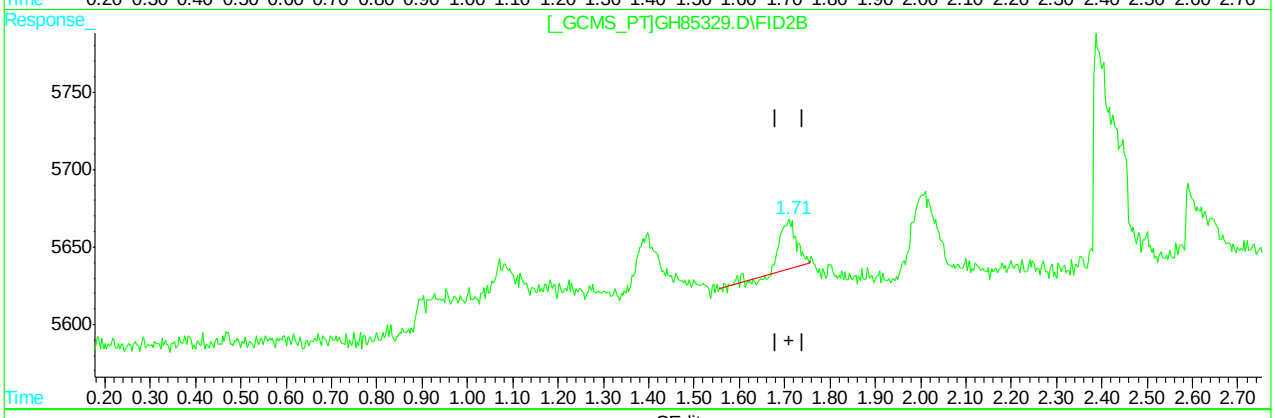
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(5) 2-Propanol

1.27min 116.368PPB

response 2517

(5) 2-Propanol #2

1.71min 51.743PPB

response 709

(+) = Expected Retention Time

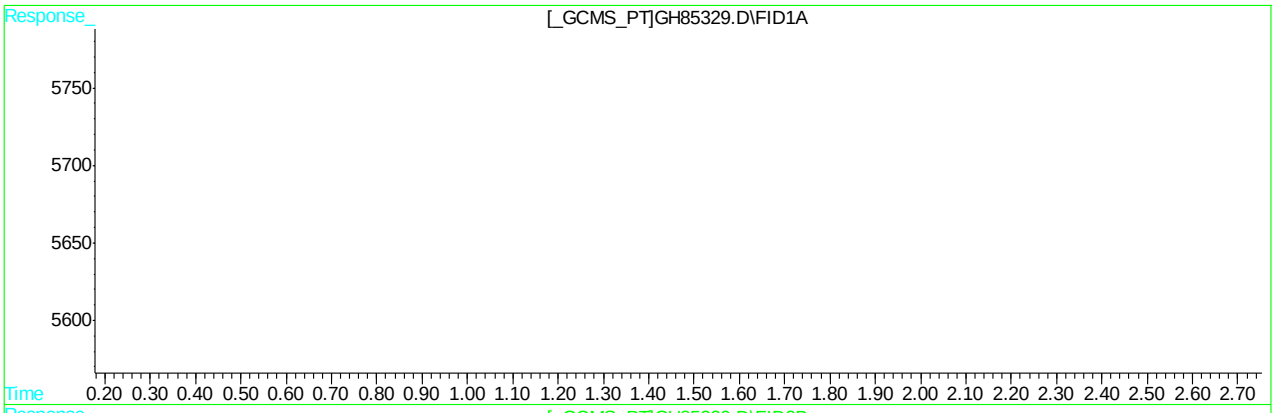
GH85329.D MGH3898.M Fri Nov 11 12:13:01 2011 GCGH

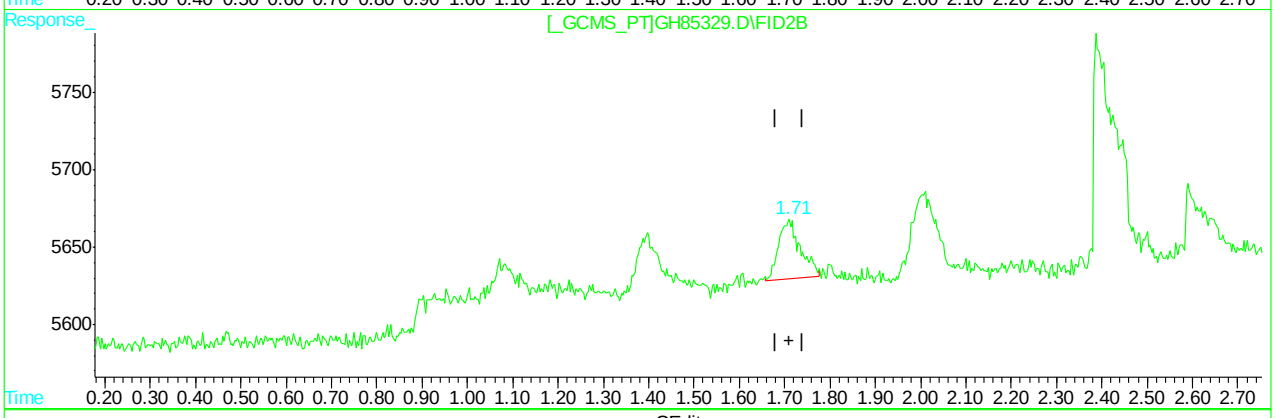
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH85329.D\FID1A.CH          Vial: 1
Acq On    : 11 Nov 2011   7:57 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85329.D\FID2B.CH          Vial: 1
Acq On    : 11 Nov 2011   8:11 am                    Operator: XULIU
Sample    : IC3898-100                               Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:40 2011  Quant Results File: MGH3898.RES


Method       : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:00:49 2011
Response via : Multiple Level Calibration
```





QEdit

(5) 2-Propanol

1.27min 116.368PPB

response 2517

(5) 2-Propanol #2

1.71min 92.394PPB m

response 1266

(+) = Expected Retention Time

GH85329.D MGH3898.M Fri Nov 11 12:13:43 2011 GCGH

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH85330.D\FID1A.CH Vial: 2
Acq On : 11 Nov 2011 8:27 am Operator: XULIU
Sample : IC3898-500 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85330.D\FID2B.CH Vial: 2
Acq On : 11 Nov 2011 8:41 am Operator: XULIU
Sample : IC3898-500 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 12:17 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 09:46:09 2011
Response via : Initial Calibration
DataAcq Meth : MGH3897.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.73	71181	62007	1955.399	1851.406
	Spiked Amount 5000.000			Recovery	=	39.11%	37.03%
	Target Compounds						
1)	Methanol	0.82	1.08	6949	3781	511.198	507.072
2)	Ethanol	1.06	1.39	9347	5882	496.259	489.765
3)	Tert-Butyl Alcoh	1.47	2.00	13914	9343	498.365	488.933
4)	1-Propanol	1.89f	2.40	11851	6825	504.616	308.548
5)	2-Propanol	1.28	1.70	10223	6443	472.637	470.158
7)	Isobutanol	2.78f	3.33	13368	9178	483.116	436.836
8)	1-Butanol	3.25	3.79	13181	8766	483.581	454.657
9)	2-Butanol	2.36f	2.96	12195	7737	502.393	473.917

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH85330.D MGH3898.M Fri Nov 11 12:17:16 2011 GCGH

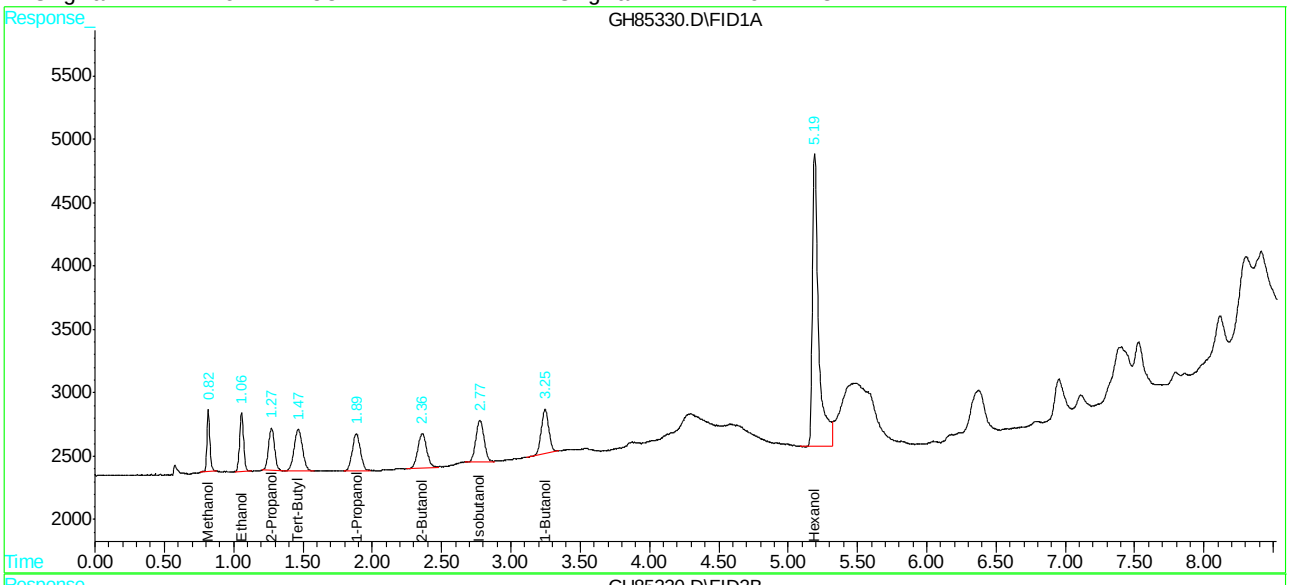
Quantitation Report (QT Reviewed)

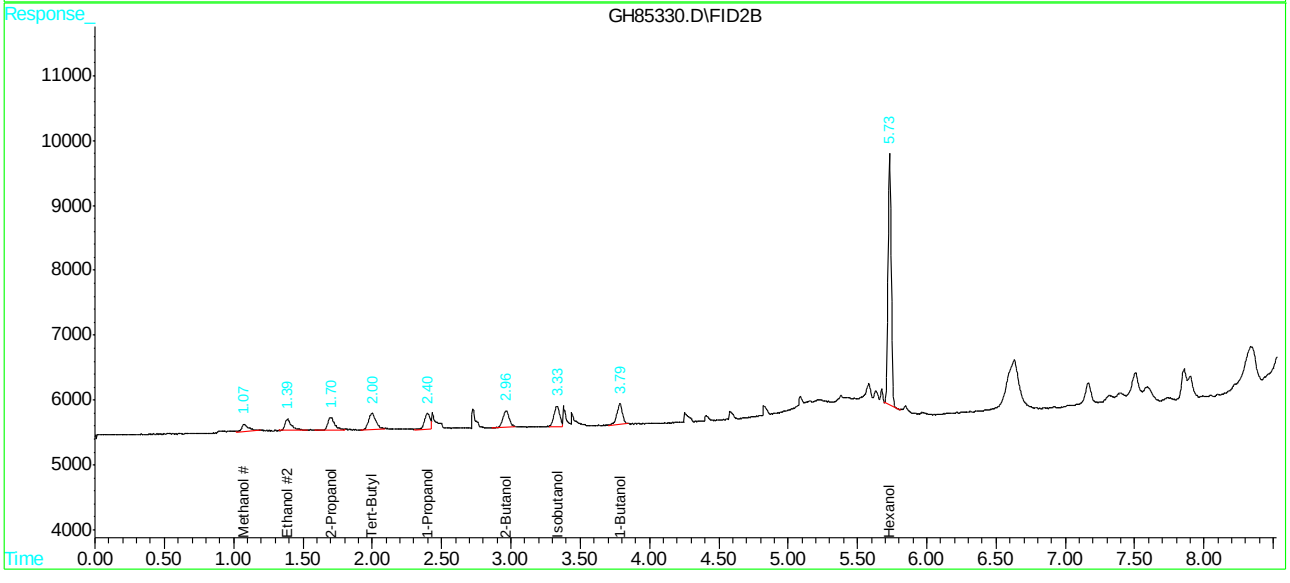
Data File : C:\HPCHEM\1\DATA\GH85330.D\FID1A.CH Vial: 2
Acq On : 11 Nov 2011 8:27 am Operator: XULIU
Sample : IC3898-500 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85330.D\FID2B.CH Vial: 2
Acq On : 11 Nov 2011 8:41 am Operator: XULIU
Sample : IC3898-500 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 12:17 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 09:46:09 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3897.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH85331.D\FID1A.CH Vial: 3
Acq On : 11 Nov 2011 8:41 am Operator: XULIU
Sample : IC3898-1000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85331.D\FID2B.CH Vial: 3
Acq On : 11 Nov 2011 9:03 am Operator: XULIU
Sample : IC3898-1000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 10:29 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 09:46:09 2011
Response via : Initial Calibration
DataAcq Meth : MGH3897.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.74	144689	121188	3974.746	3618.438
	Spiked Amount 5000.000			Recovery	=	79.49%	72.37%
	Target Compounds						
1)	Methanol	0.82	1.08	13111	7477	964.474	1002.892
2)	Ethanol	1.06	1.40	18978	12985	1007.665	1081.168
3)	Tert-Butyl Alcoh	1.47	2.01	28051	19854	1004.760	1039.038
4)	1-Propanol	1.89f	2.40	24068	20863	1024.802	943.236
5)	2-Propanol	1.27	1.71	20297	14945	938.411	1090.665
7)	Isobutanol	2.78f	3.33	27639	21573	998.841	1026.733
8)	1-Butanol	3.25	3.79	27053	18014	992.494	934.297
9)	2-Butanol	2.36f	2.97	24450	14166	1007.281	867.676

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH85331.D MGH3898.M Fri Nov 11 12:17:51 2011 GCGH

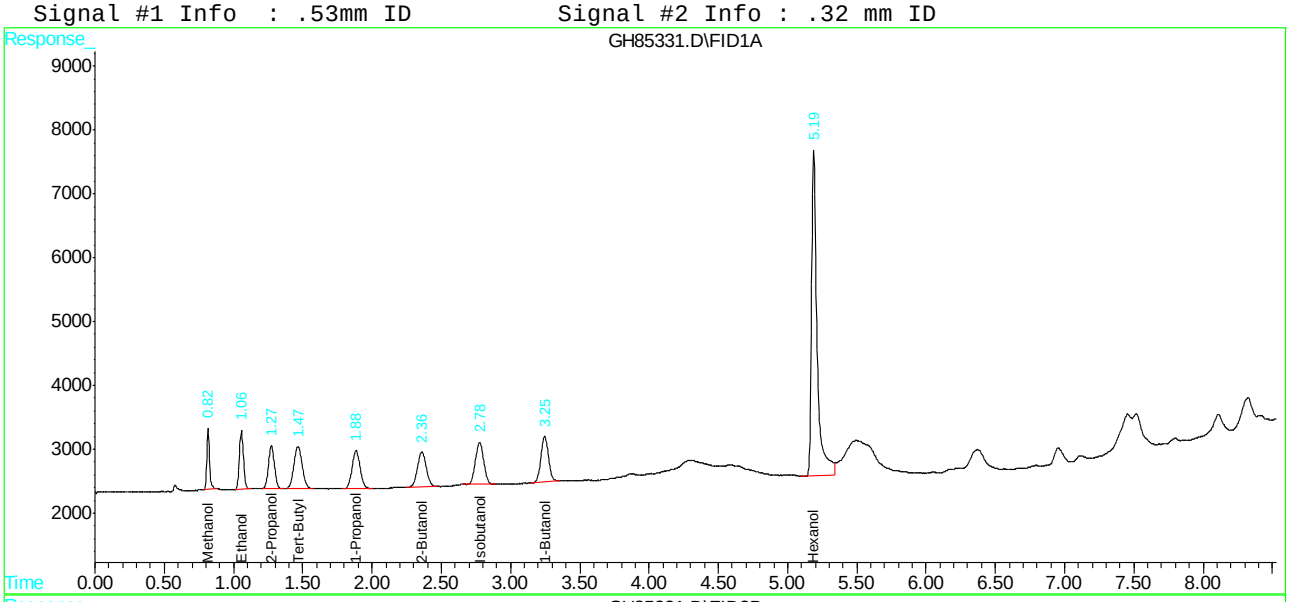
Quantitation Report (QT Reviewed)

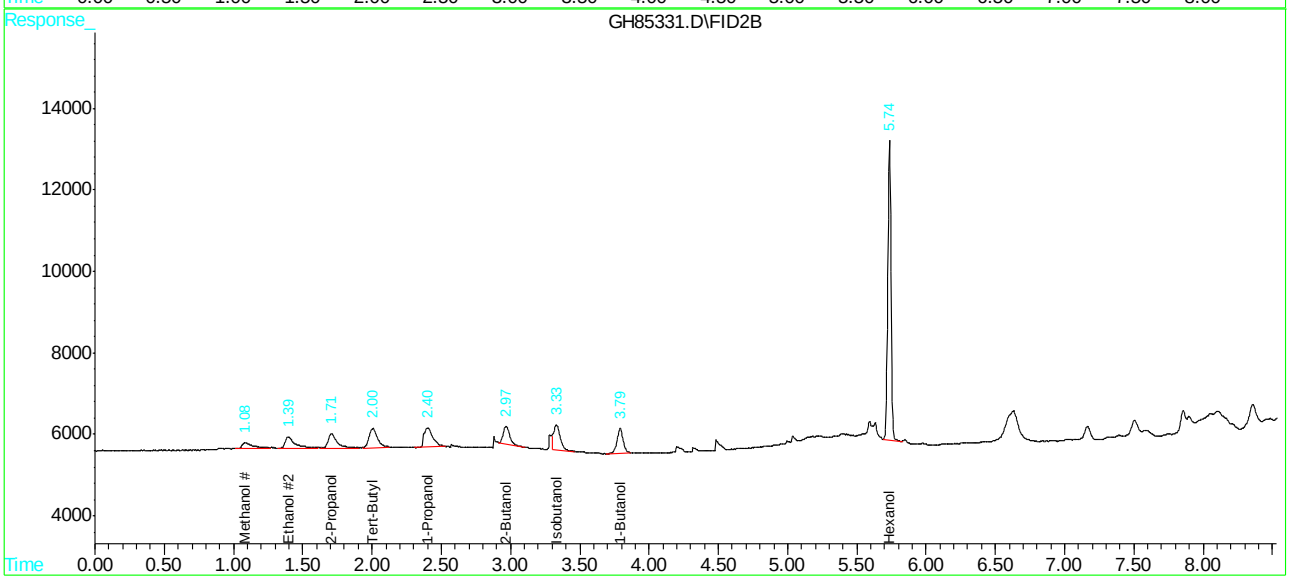
Data File : C:\HPCHEM\1\DATA\GH85331.D\FID1A.CH Vial: 3
Acq On : 11 Nov 2011 8:41 am Operator: XULIU
Sample : IC3898-1000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85331.D\FID2B.CH Vial: 3
Acq On : 11 Nov 2011 9:03 am Operator: XULIU
Sample : IC3898-1000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 10:29 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 09:46:09 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3897.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85332.D\FID1A.CH          Vial: 6
Acq On    : 11 Nov 2011   9:03 am                    Operator: XULIU
Sample    : ICC3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85332.D\FID2B.CH          Vial: 6
Acq On    : 11 Nov 2011   9:17 am                    Operator: XULIU
Sample    : ICC3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11  9:39 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 09:28:21 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.73f	187515	155554	5140.620	4644.529
	Spiked Amount 5000.000			Recovery	=	102.81%	92.89%
	Target Compounds						
1)	Methanol	0.82	1.08	61551	37553	4352.437	5036.650
2)	Ethanol	1.06	1.39	84839	63312	4486.466	5271.623
3)	Tert-Butyl Alcoh	1.47	2.00	124711	91491	4448.101	4788.090
4)	1-Propanol	1.89f	2.40	105227	82230	4466.029	3717.613
5)	2-Propanol	1.28	1.70	90154	66157	4083.104	4827.964
7)	Isobutanol	2.78f	3.33	126069	99391	4548.972	4730.361
8)	1-Butanol	3.25	3.79	117806	86331	4241.149	4477.636
9)	2-Butanol	2.36f	2.97	108214	78694	4466.311	4819.995

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

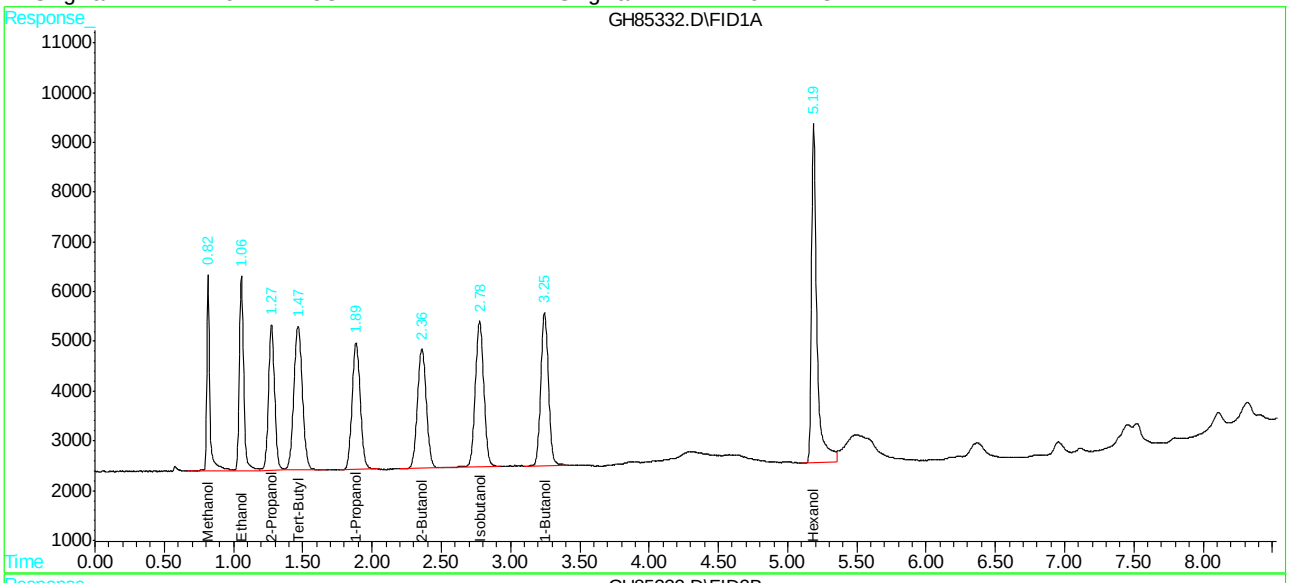
Quantitation Report (QT Reviewed)

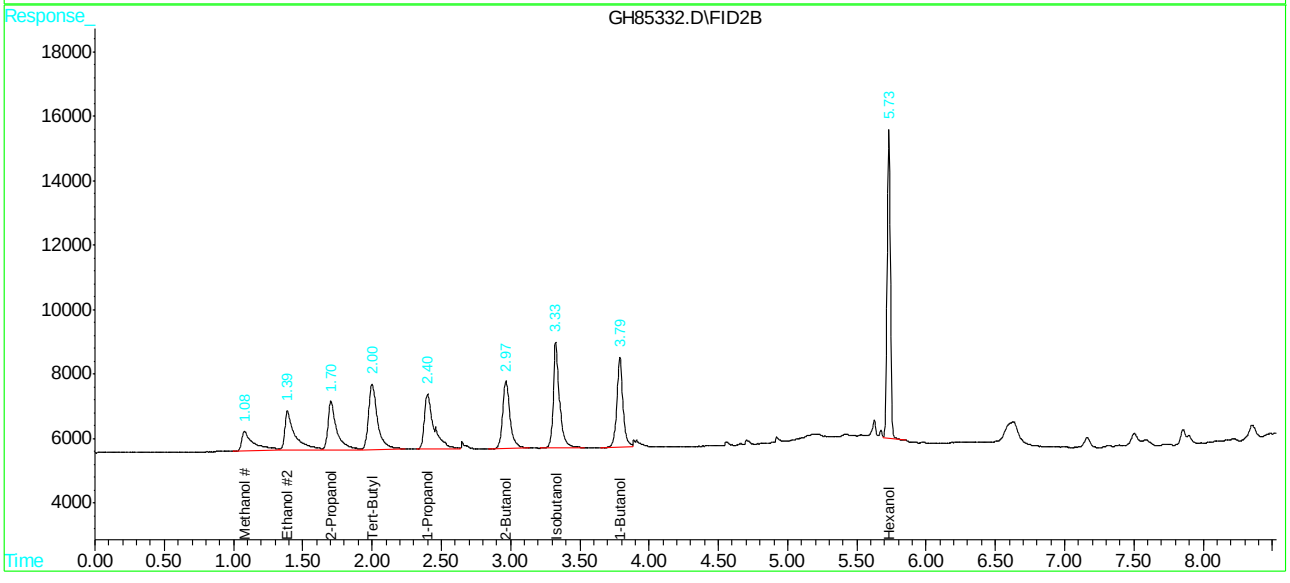
Data File : C:\HPCHEM\1\DATA\GH85332.D\FID1A.CH Vial: 6
Acq On : 11 Nov 2011 9:03 am Operator: XULIU
Sample : ICC3898-5000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85332.D\FID2B.CH Vial: 6
Acq On : 11 Nov 2011 9:17 am Operator: XULIU
Sample : ICC3898-5000 Inst : GCGH
Misc : GC37676,GGH3898,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Nov 11 9:39 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Fri Nov 11 09:28:21 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85334.D\FID1A.CH          Vial: 9
Acq On    : 11 Nov 2011   9:31 am                    Operator: XULIU
Sample    : IC3898-50000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85334.D\FID2B.CH          Vial: 9
Acq On    : 11 Nov 2011   9:46 am                    Operator: XULIU
Sample    : IC3898-50000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:43 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 10:41:33 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
10) S	Hexanol	5.19	5.73	222412	181126	6339.233	5605.544	
	Spiked Amount 5000.000			Recovery	=	126.78%	112.11%	
	Target Compounds							
1)	Methanol	0.82	1.08	662113	394341	47526.109	43124.036	
2)	Ethanol	1.06	1.39	942551	714587	50103.633	59639.245	
3)	Tert-Butyl Alcoh	1.46f	1.99f	1389332	1199354	53455.397	63355.021	
4)	1-Propanol	1.88f	2.39f	1185206	989350	51879.806	45119.664	
5)	2-Propanol	1.27	1.70	990749	813381	47210.146	67567.872	#
7)	Isobutanol	2.77f	3.32f	1400396	1195477	52575.652	59646.049	
8)	1-Butanol	3.24f	3.79	1337022	1019975	52544.334	55899.977	
9)	2-Butanol	2.36f	2.96	1218250	958615	53289.561	66939.820	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

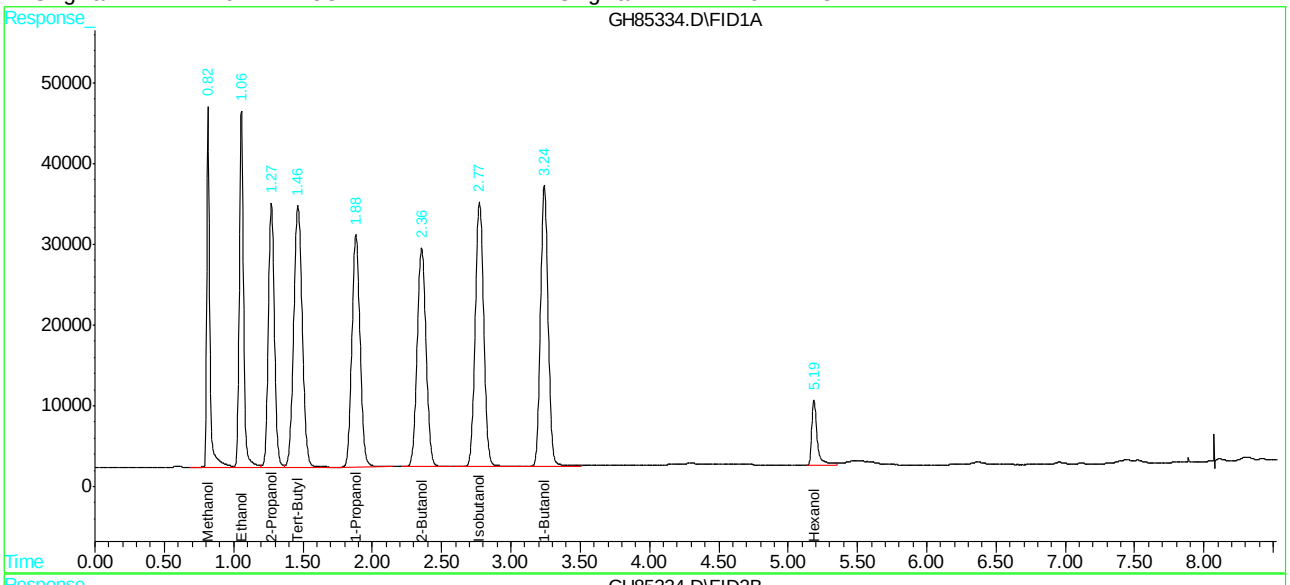
Quantitation Report (QT Reviewed)

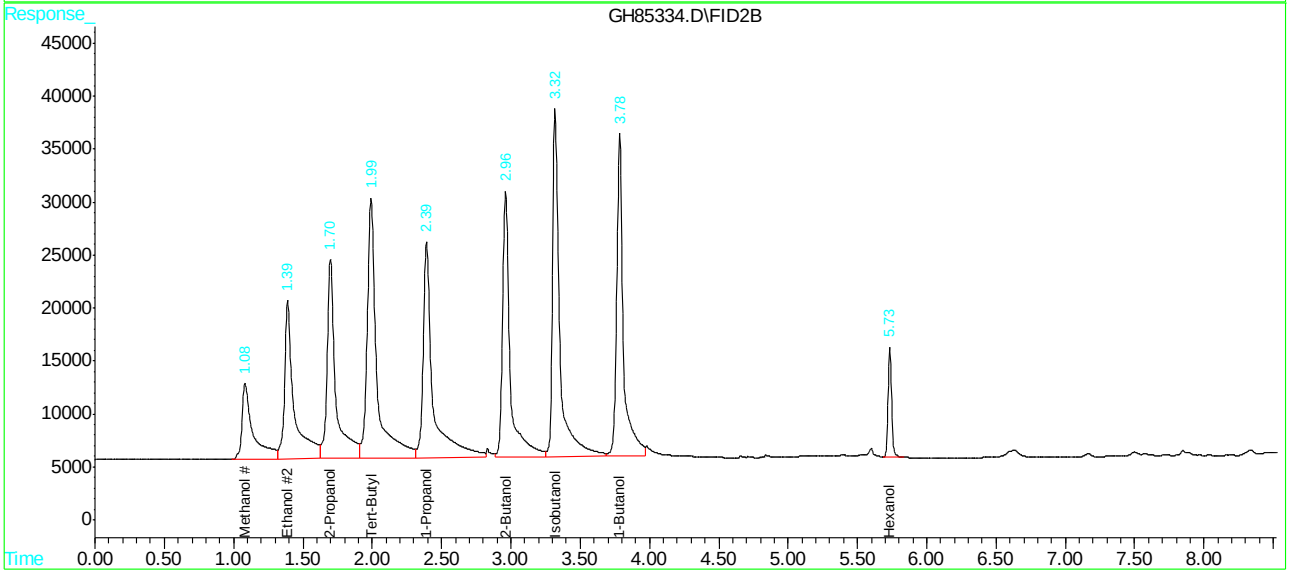
```
Data File : C:\HPCHEM\1\DATA\GH85334.D\FID1A.CH          Vial: 9
Acq On    : 11 Nov 2011   9:31 am                    Operator: XULIU
Sample    : IC3898-50000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85334.D\FID2B.CH          Vial: 9
Acq On    : 11 Nov 2011   9:46 am                    Operator: XULIU
Sample    : IC3898-50000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:43 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 10:41:33 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85335.D\FID1A.CH          Vial: 10
Acq On    : 11 Nov 2011   9:46 am                    Operator: XULIU
Sample    : IC3898-100000                            Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85335.D\FID2B.CH          Vial: 10
Acq On    : 11 Nov 2011  10:00 am                    Operator: XULIU
Sample    : IC3898-100000                            Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:43 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 10:41:33 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.74	294818	254985	8402.959	7891.363
	Spiked Amount 5000.000			Recovery	=	168.06%	157.83%
	Target Compounds						
1)	Methanol	0.81	1.08	1289038	831547	92526.387	90935.782
2)	Ethanol	1.05	1.39	1844278	1483182	98037.116	123786.035
3)	Tert-Butyl Alcoh	1.46f	2.00	2725443	2258729	104863.066	119315.695
4)	1-Propanol	1.88f	2.40	2328106	1793330	101907.789	81785.443
5)	2-Propanol	1.27f	1.70	1944951	1619335	92678.831	134518.765 #
7)	Isobutanol	2.77f	3.33	2734359	2148629	102657.165	107201.766
8)	1-Butanol	3.24f	3.79	2602229	2047755	102266.346	112227.685
9)	2-Butanol	2.35f	2.97	2392072	1797481	104635.684	125517.560

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

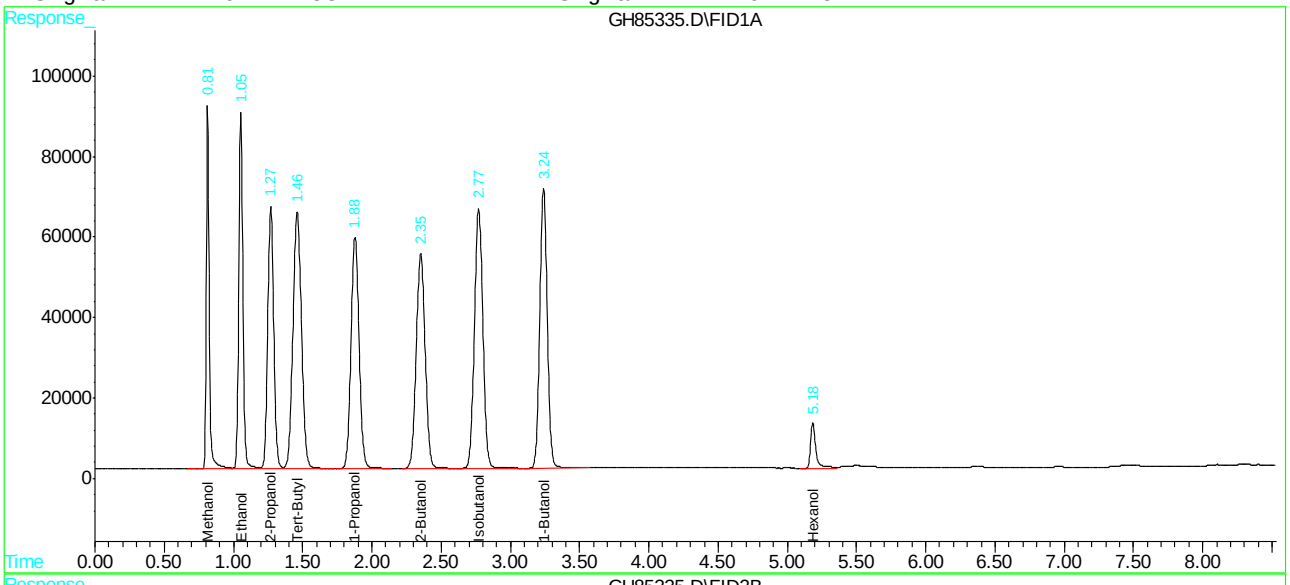
Quantitation Report (QT Reviewed)

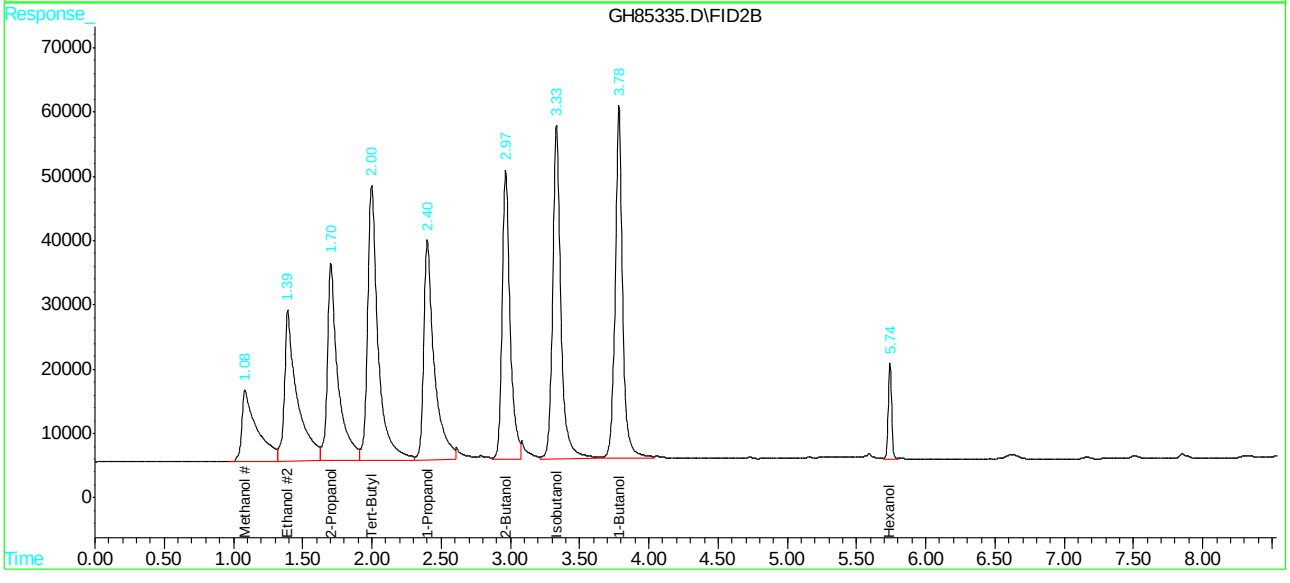
```
Data File : C:\HPCHEM\1\DATA\GH85335.D\FID1A.CH          Vial: 10
Acq On    : 11 Nov 2011   9:46 am                    Operator: XULIU
Sample    : IC3898-100000                            Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85335.D\FID2B.CH          Vial: 10
Acq On    : 11 Nov 2011  10:00 am                    Operator: XULIU
Sample    : IC3898-100000                            Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 10:43 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 10:41:33 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85336.D\FID1A.CH          Vial: 11
Acq On    : 11 Nov 2011  10:29 am                    Operator: XULIU
Sample    : IC3898-10000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85336.D\FID2B.CH          Vial: 11
Acq On    : 11 Nov 2011  10:48 am                    Operator: XULIU
Sample    : IC3898-10000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 11:04 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 11:01:40 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.74	181719	154431	4966.586	4998.897
	Spiked Amount 5000.000			Recovery	=	99.33%	99.98%
	Target Compounds						
1)	Methanol	0.82	1.09	121213	85820	9028.401	9790.175
2)	Ethanol	1.06	1.40	171063	142717	9236.060	10939.471
3)	Tert-Butyl Alcoh	1.46f	1.99f	252072	184527	9578.758	9177.190
4)	1-Propanol	1.88f	2.40f	213788	157771	9368.178	7821.137
5)	2-Propanol	1.27	1.70	181464	139431	8986.265	10322.124
7)	Isobutanol	2.77f	3.31f	254265	201818	9501.603	9717.062
8)	1-Butanol	3.24f	3.78	243845	179199	9539.590	9582.773
9)	2-Butanol	2.36f	2.96	220046	160853	9523.800	10316.173

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

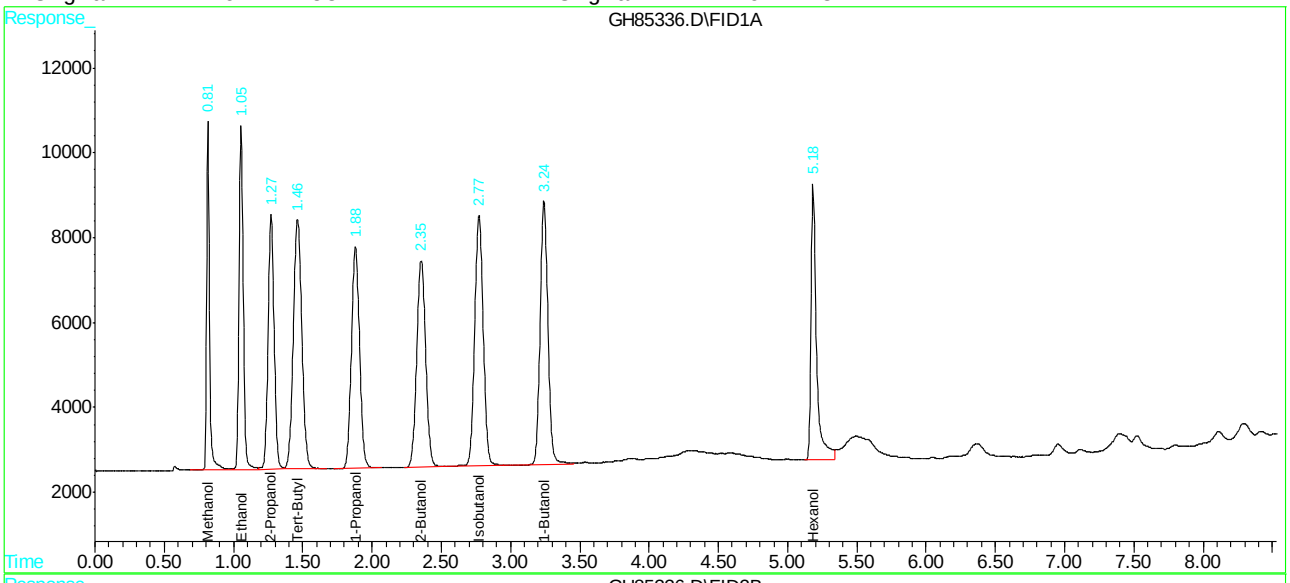
Quantitation Report (QT Reviewed)

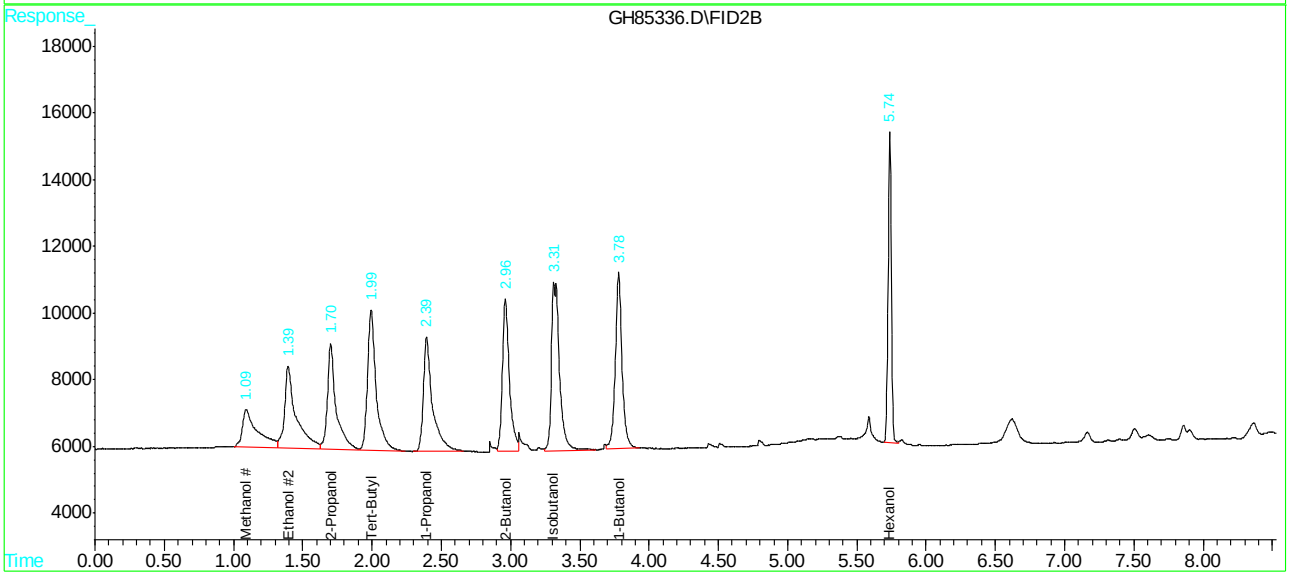
```
Data File : C:\HPCHEM\1\DATA\GH85336.D\FID1A.CH          Vial: 11
Acq On    : 11 Nov 2011  10:29 am                    Operator: XULIU
Sample    : IC3898-10000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85336.D\FID2B.CH          Vial: 11
Acq On    : 11 Nov 2011  10:48 am                    Operator: XULIU
Sample    : IC3898-10000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 11:04 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 11:01:40 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85338.D\FID1A.CH          Vial: 95
Acq On    : 11 Nov 2011  11:59 am                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85338.D\FID2B.CH          Vial: 95
Acq On    : 11 Nov 2011  12:15 pm                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 12:39 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:21:55 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.19	5.73	183688	151723	5020.401	4911.240
	Spiked Amount 5000.000			Recovery	=	100.41%	98.22%
	Target Compounds						
1)	Methanol	0.82	1.08	63141	42785	4829.984	5509.803
2)	Ethanol	1.06	1.39	88368	63365	4771.168	4700.634
3)	Tert-Butyl Alcoh	1.46	2.00	130261	96289	4949.913	4788.808
4)	1-Propanol	1.88	2.40	112135	82630	4913.759	4096.219
5)	2-Propanol	1.27	1.71	93412	67625	4625.821	4727.787
7)	Isobutanol	2.78	3.33	132179	97111	4939.390	4664.021
8)	1-Butanol	3.25	3.79	125467	92666	4908.478	4922.199
9)	2-Butanol	2.36	2.97	114866	84962	4971.518	5381.469

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH85338.D MGH3898.M Fri Nov 11 13:28:59 2011 GCGH

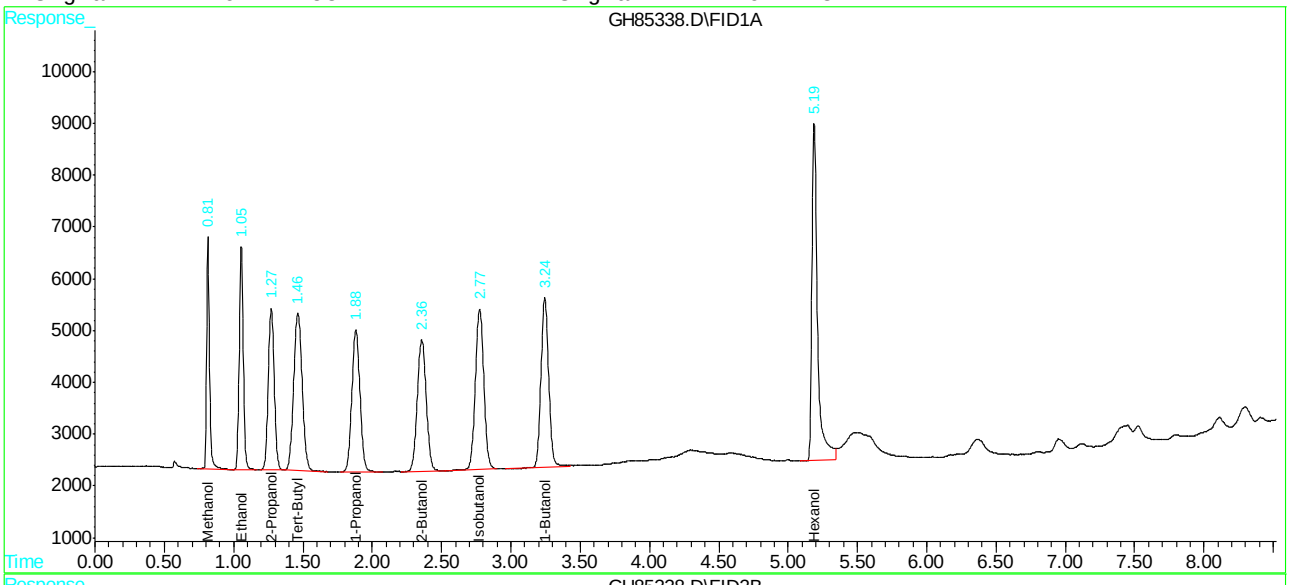
Quantitation Report (QT Reviewed)

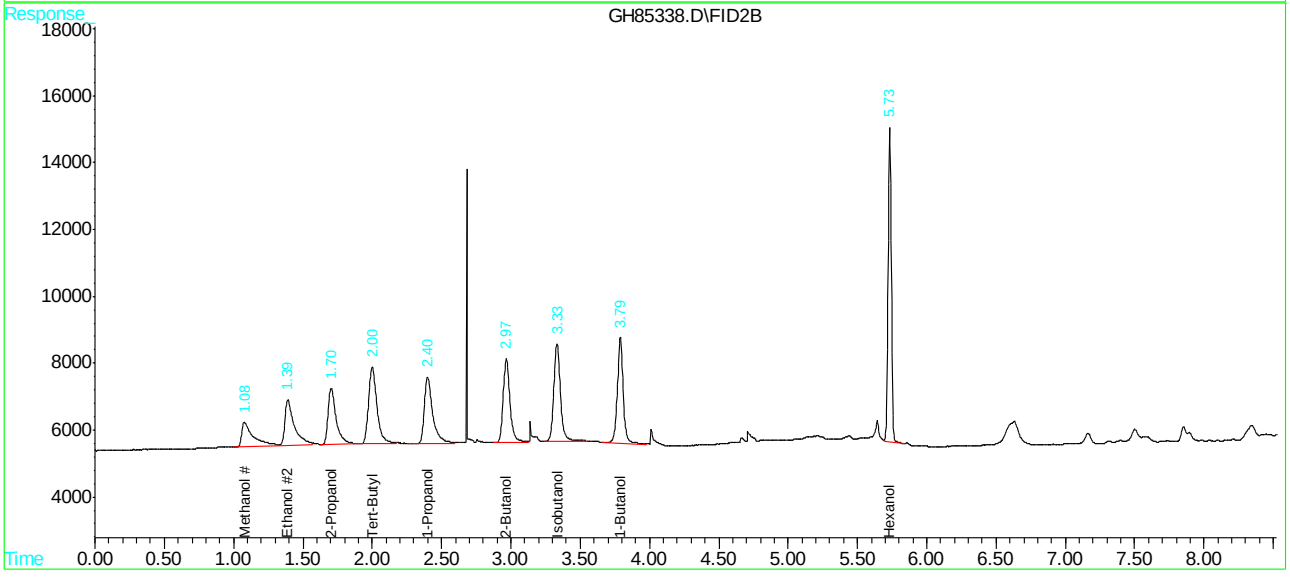
```
Data File : C:\HPCHEM\1\DATA\GH85338.D\FID1A.CH          Vial: 95
Acq On    : 11 Nov 2011  11:59 am                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85338.D\FID2B.CH          Vial: 95
Acq On    : 11 Nov 2011  12:15 pm                    Operator: XULIU
Sample    : ICV3898-5000                             Inst    : GCGH
Misc      : GC37676,GGH3898,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Nov 11 12:39 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Nov 11 12:21:55 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85748.D\FID1A.CH          Vial: 92
Acq On    :  9 Dec 2011   9:38 am                    Operator: XULIU
Sample    : CC3898-5000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85748.D\FID2B.CH          Vial: 92
Acq On    :  9 Dec 2011   9:52 am                    Operator: XULIU
Sample    : CC3898-5000                              Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 11:48 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.18	5.61	160239	144179	4379.492	4667.040
	Spiked Amount 5000.000			Recovery	=	87.59%	93.34%
	Target Compounds						
1)	Methanol	0.82	1.08	67271	39999	5145.918	5151.070
2)	Ethanol	1.06	1.40	92083	59541	4971.795	4416.918
3)	Tert-Butyl Alcoh	1.48	2.02	133284	90423	5064.785	4497.084
4)	1-Propanol	1.90	2.42	113577	72115	4976.948	3574.947
5)	2-Propanol	1.28	1.72	97763	62976	4841.315	4402.738
7)	Isobutanol	2.79	3.36f	133195	85497	4977.373	4106.212
8)	1-Butanol	3.23	3.81f	127830	81003	5000.885	4302.723
9)	2-Butanol	2.37	2.99	114020	75402	4934.872	4775.937

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

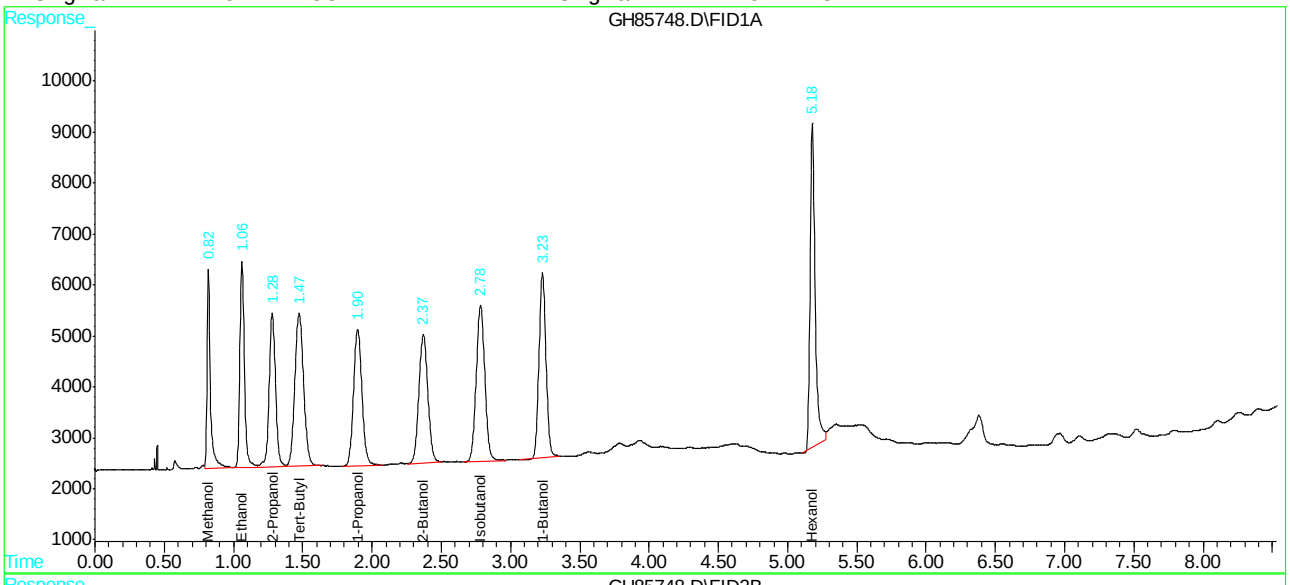
Quantitation Report (QT Reviewed)

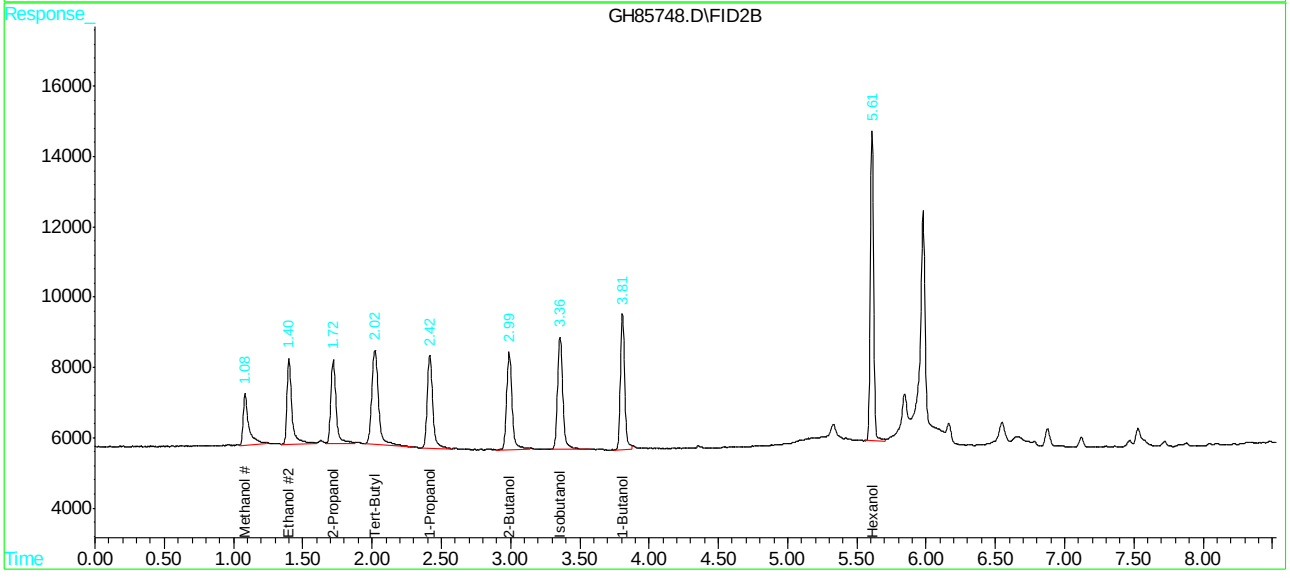
Data File : C:\HPCHEM\1\DATA\GH85748.D\FID1A.CH Vial: 92
Acq On : 9 Dec 2011 9:38 am Operator: XULIU
Sample : CC3898-5000 Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85748.D\FID2B.CH Vial: 92
Acq On : 9 Dec 2011 9:52 am Operator: XULIU
Sample : CC3898-5000 Inst : GCGH
Misc : GC37904,GGH3918,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Dec 9 11:48 2011 Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH85759.D\FID1A.CH          Vial: 90
Acq On    :  9 Dec 2011   1:08 pm                    Operator: XULIU
Sample    : CC3898-10000                             Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85759.D\FID2B.CH          Vial: 90
Acq On    :  9 Dec 2011   1:22 pm                    Operator: XULIU
Sample    : CC3898-10000                             Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 13:29 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Initial Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.18	5.61	203984	167586	5575.103	5424.723
	Spiked Amount 5000.000			Recovery	=	111.50%	108.49%
	Target Compounds						
1)	Methanol	0.82	1.08	134204	84816	10265.958	10922.590
2)	Ethanol	1.07	1.40	188916	120464	10200.016	8936.425
3)	Tert-Butyl Alcoh	1.48	2.02	285099	182497	10833.763	9076.260
4)	1-Propanol	1.90	2.41	233282	153389	10222.396	7603.915
5)	2-Propanol	1.28	1.72	203137	130132	10059.518	9097.719
7)	Isobutanol	2.79	3.35	273666	184497	10226.604	8860.989
8)	1-Butanol	3.23	3.80	265469	178822	10385.541	9498.625
9)	2-Butanol	2.37	2.99	238699	163280	10331.086	10342.166

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

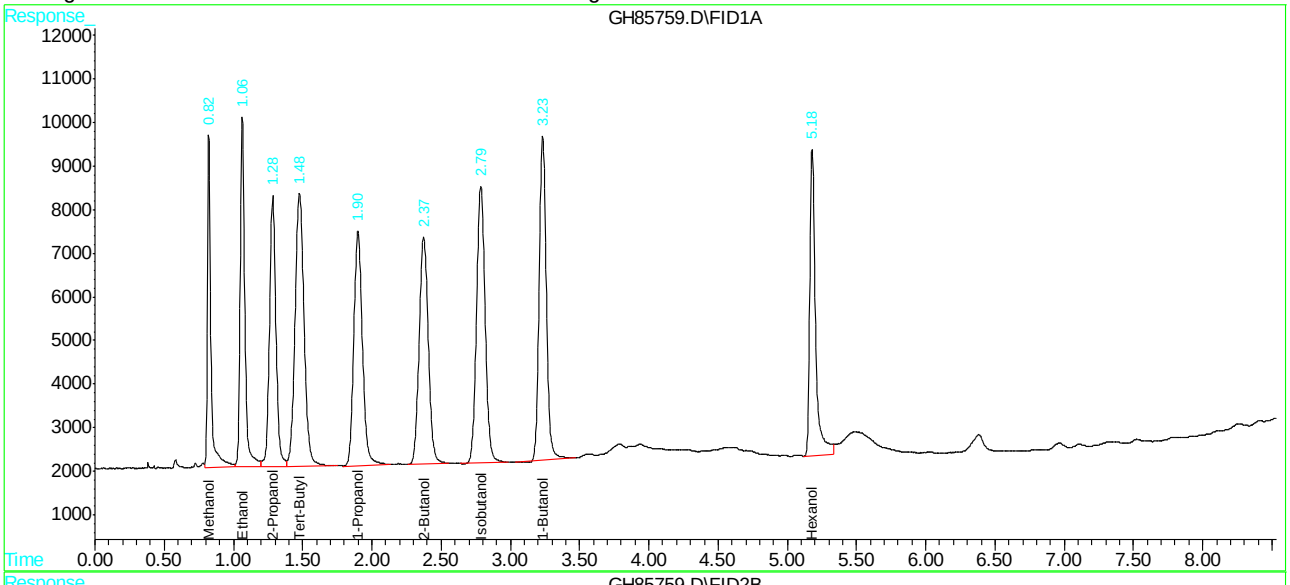
Quantitation Report (QT Reviewed)

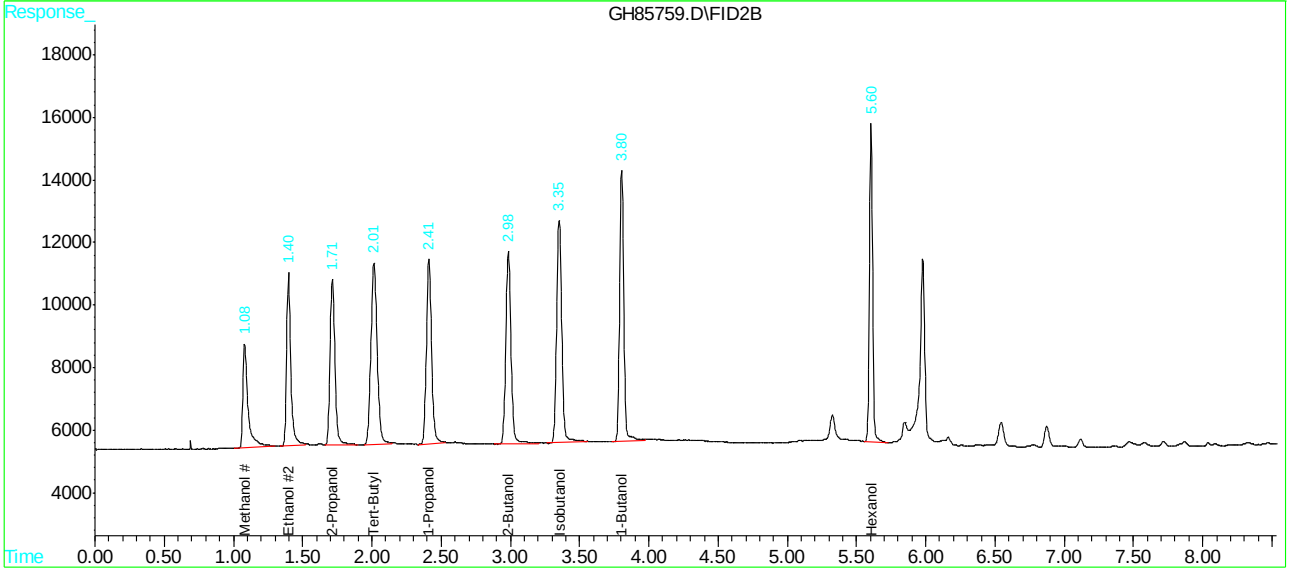
```
Data File : C:\HPCHEM\1\DATA\GH85759.D\FID1A.CH          Vial: 90
Acq On    :  9 Dec 2011   1:08 pm                    Operator: XULIU
Sample    : CC3898-10000                             Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH85759.D\FID2B.CH          Vial: 90
Acq On    :  9 Dec 2011   1:22 pm                    Operator: XULIU
Sample    : CC3898-10000                             Inst    : GCGH
Misc      : GC37904,GGH3918,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Dec  9 13:29 2011  Quant Results File: MGH3898.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3898.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Wed Nov 30 17:22:02 2011
Response via : Multiple Level Calibration
DataAcq Meth : MGH3898.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: GGH 3898

Print Analyst Name: Xu Liu

Analyst Signature:

Date: 11/11/11

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
011480-90	SWV (11/24)	2000ppm
-111	SWD (12/8)	100 ppm
-112	SWD(12)	100 ppm

Columns: 2B/24 (30m x 0.53mm) / RTX-1 (30m x 0.32 mm)

Method 8015B

Initial Cal. Method MGH 3898

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: 11/14/11

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
	GH 8328	2B				1						✓	OK		
	8329	2C3898-100				2						✓	OK	10µl STD, 4µl SW / 10ml H2O	
	8330	2C3898-500				3						✓	OK	5µl STD, 1µl SW / 10ml H2O	
	8331	2C3898-1000				4						✓	OK	10µl STD, 2µl SW /	
	8332	2CC3898-5000				5						✓	OK	50µl STD, 2.5µl SW /	
	8333	2C3898-10,000				6							RR	2nd signal No /	
	8334	2C3898-50,000				7						✓	OK	500µl STD, 5µl SW /	
	8335	2C3898-100,000				8						✓	OK	1000µl STD, 4µl SW /	
	8336	2C3898-10000				9						✓	OK	100µl STD, 2.5µl STD /	
	8337	2C3898-100				10							not used		
	8338	2CV3898-5000				11						✓	OK	50µl STD(2), 2.5µl SW / 10ml H2O	
						12									

11/11

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

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Form: OR001-9
Rev. Date: 2/14/2007

8.6.1

8

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: GGH3918

Print Analyst Name: Xu Liu

Analyst Signature:

Date: 12/9/11

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
011-030-122	SUX (12/30)	2000ppm
-127	S2D (1/82)	100ppm
-128	S2D(2)	100ppm

Columns: 2B6UL (RTX-1 (30mx0.53mm) (30mx0.32mm

Method 8015B

Initial Cal. Method MGH3898

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: 12/14/11

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
	GH8747	2B										✓	OK		
	8748	CC3898-5000										✓	OK	5ppb STD/mel 2w	
	8749	MB1										✓	OK		
	8750	BS										✓	OK	10ppb STD(2)/mel 2w.	
	8751	JA93968-1	37804 meth 2PA	S	2		5.1g/5ml					✓	OK		
	8752	JA93968-2			1		5.0/5					✓	OK		
	8753	JA93968-3			2		5.1/5					✓	OK		
	8754	JA93968-4			2		5.1/5					✓	OK		
	8755	JA93968-5			2		5.1/5					✓	OK		
	8756	JA93968-6			2		5.0/5					✓	OK		
	8757	JA93968-1MS			2		5.1/5					✓	OK	10ppb STD/ml sample	
	8758	JA93968-1MSD			2		5.1/5					✓	OK		
	8759	CC3898-10,000										✓	OK	100ppb STD/mel 2w	
	8760	MB2										✓	OK		
	8761	JA93967-1		S	1		5.0/5					✓	OK		
	8762	JA93967-2			2		5.0/5					✓	OK		
	8763	JA93967-3			1		5.1/5					✓	OK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: GGH3918

Print Analyst Name: Xu Lin

Analyst Signature:

Date: 12/9/11

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Pg 231	

Columns: ZB624 / RTX-1 (30m x 0.53mm) (30m x 0.32 µm)

Method 8015B

Initial Cal. Method MGH3898

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: 12/12/11

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
	GH85764	JA93967-4	37904 Meth	S	1		5.0/5					✓	OK		
	85765	JA94117-1	2PA	S	2		5.0/5					✓	OK		
	85766	JA94117-2	37918 Meth	S	1		5.1/5					↑	RR		
	85767	JA94117-3	2PA	S	1		5.0/5					↑	OK/DL	RX10	
	85768	JA94117-4		S	1		5.1/5					✓	OK		
	85769	JA94117-5		S	1		5.0/5					✓	OK		
	85770	CC3898-5000										✓	OK	50µl STD/ml MW	
	85771	MB3										✓	OK		
	85772	JA94117-6		S	2		5.0/5					✓	OK		
R	85773	JA94117-2			1		5.1/5					✓	OK		
R	85774	JA94117-3			1		5.0/5		X10			✓	OK	100µl/MW	
	85775	CC3898-10.000										✓	OK	100µl STD/ml MW	

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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

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: JA93968
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JA93968-1 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-1 (0.5-1.5)

Wet Weight (Total)	34.33	g
Tare Weight	25.93	g
Dry Weight (Total)	33.34	g
Solids, Percent	88.2	%

Sample: JA93968-2 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-2 (1.5-2)

Wet Weight (Total)	34.15	g
Tare Weight	26.15	g
Dry Weight (Total)	33.55	g
Solids, Percent	92.5	%

Sample: JA93968-3 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-3 (1-2)

Wet Weight (Total)	34.32	g
Tare Weight	25.71	g
Dry Weight (Total)	32.63	g
Solids, Percent	80.4	%

Sample: JA93968-4 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-4 (4-5)

Wet Weight (Total)	36.35	g
Tare Weight	29.38	g
Dry Weight (Total)	34.81	g
Solids, Percent	77.9	%

Sample: JA93968-5 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-6 (0-1)

Wet Weight (Total)	33.38	g
Tare Weight	25.08	g
Dry Weight (Total)	31.79	g
Solids, Percent	80.8	%

Sample: JA93968-6 **Analyzed:** 08-DEC-11 by PM **Method:** SM18 2540G
ClientID: P-7 (0-1)

Wet Weight (Total)	37.48	g
Tare Weight	27.5	g
Dry Weight (Total)	35.94	g
Solids, Percent	84.6	%